



LATITUDE 39° 22' 30"
(15) 39° 25'

LONGITUDE 80° 47' 30"
(15) 80° 25'

Minimum Error of Closure 1 in 200'

Source of Elevation USGS B.M. on Middle Island Creek north
of location = 749

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: [Signature]

Map No. _____ Squares: N S E W

Company INDUSTRIAL GAS ASSOCIATES
 Address Postoffice Box 1610, Greenwich, Conn. 06830
 Farm Oral O. Husk, Elsie Keys
 Tract _____ Acres 13.6 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 943
 Quadrangle West Union 7 1/2 and 15' EC
 County Doddridge District West Union
 Engineer [Signature]
 Engineer's Registration No. 1227 115 200'
 File No. _____ Drawing No. _____
 Date October 20, 1978 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. DODD-2310

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{24,000}/_{62,500}, latitude and longitude lines being represented by border lines as shown.

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

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

APR 26 1979

Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle West Union 7½

Permit No. DODD - 2310

Company Industrial Gas Associates
Address Box 1610, Greenwich, Conn.
Farm Oral Husk Acres 73.6
Location (waters) Middle Island Creek
Well No. 1 Elev. 943
District West Union County Doddridge
The surface of tract is owned in fee by _____
Elsie Keys
Address R.R. West Union, W.V.
Mineral rights are owned by Oral Husk
Address 8504 Waco Dr., Oxon Hill, Md
Drilling Commenced 11/31/78
Drilling Completed 12/6/78
Initial open flow Show cu. ft. _____ bbls.
Final production 500,000 cu. ft. per day 1 bbls.
Well open 1 hrs. before test 500 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	240	240	63 Sks
7			
5 1/2			
4 1/2	2358	2358	140 Sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Weir - Fraced with 360 BBLs water - 10,000# sand - 55,000 SCF N²

Injun = Fraced with 337 BBLs water 20,000# sand - 55,000 SCF N²

Coal was encountered at None Feet _____ Inches _____
Fresh water 100 Feet _____ Salt Water _____ Feet _____
Producing Sand Weir & Injun Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil	Brown	Soft	0	15		
Sand & Shale	Brown	Soft	15	1550		
Sand	White	Soft	1550	1700		
Shale	Black	Soft	1700	1855		
Big Lime	White	Hard	-1855	1954		
Big Injun	White	Hard	1954	2048		
Shale	Black	Soft	2048	2200		
Weir	Brown	Soft	2200	2302		
Shale	Black	Soft	2302	2400		
Berea	White	Hard	-2400	2405		
Shale	Black	Soft	2405	2652		
T.D.				2652		

MAY 8 1979



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 31 1978

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 10-24-78

Surface Owner Eddie Keys

Company Industrial Gas Associates

Address N. E. West Union

Address Box 1610, Greenwich, Conn,

Mineral Owner Oral Husk

Farm Oral Husk Acres 73.6

Address 8504 Waco Dr., Oxon Hill, Md.

Location (waters) Middle Island Creek

Coal Owner N/A

Well No. 1 Elevation 943

Address N/A

District West Union County Doddriges

Coal Operator N/A

Quadrangle West Union 7 1/2

Address N/A

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 3-1-79.

INSPECTOR TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St., Clarksburg, W.Va

PHONE 622-3871

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 3 1978 by Oral Husk made at Lenawee Drilling and recorded on the 8 day of June 1978, in Doddrige County, Book 104 Page 71

XX 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.

Very truly yours, Industrial Gas Associates

(Sign Name)

Well Operator
Box 1610

Address of Well Operator Greenwich Street

City or Town Conn. 06830

State

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

BLANKET BOND

DODD-2310 PERMIT NUMBER

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Gene Stalnaker, Inc. NAME Yearl Summers
 ADDRESS Letter Gap, W. Va ADDRESS P.O. Box 1486, Parkersburg, WVA
 TELEPHONE 462-7092 TELEPHONE 485-7419
 ESTIMATED DEPTH OF COMPLETED WELL: 2500 ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT LIFT UP OR SACKS CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250	250	Cir
7			
5 1/2			
4 1/2	2500	2500	125 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS N/A
 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