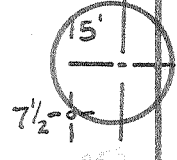


LATITUDE 39° 17' 30"
(15') 39° 20'

LONGITUDE 80° 50'

39 25 50
80 50 15

4.80S
0.17W



LEGEND

- Plotted from deed calls
- Surveyed Lines
- Roads
- - - District Lines
- Well Location

OWNERSHIP
No known coal in this area
Surface is owned by
P.L. Ferguson, West Union
Oil & Gas: - Doddridge County
Commission
West Union, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation U.S.G.S elev. on Route 50 at Pritchards Run : 848

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

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.

Signed: Michael J. [Signature]
Squares: N S E W

Company INDUSTRIAL GAS ASSOCIATES
 Address P.O. Box 1610, Greenwich, Conn.
 Farm Doddridge County Poor Farm
 Tract _____ Acres 237.98 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 921
 Quadrangle West Union 7 1/2', 15' SC
 County Doddridge District Central
 Engineer Michael J. [Signature]
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date January 5, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 47-017-2334

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.
 -- Denotes one inch spaces on border line of original tracing.

FEB 6 1979

2500 - Basin 3-6 Greenwood (89)



Furgeson #1

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

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

Quadrangle West Union 7 1/2

Permit No. 47-017-2334

Company Industrial Gas Associates
Address P.O. Box 1610, Greenwich, Connecticut
Farm Doddridge County Acres 237
Location (waters) Claylick Run
Well No. 1 Elev. 921
District Central County Doddridge

The surface of tract is owned in fee by Doddridge County Commissioner
Address West Union, West Virginia

Mineral rights are owned by Doddridge County Commissioner
Address West Union, West Virginia

Drilling Commenced 1-23-79

Drilling Completed 1-29-79

Initial open flow show cu. ft. _____ bbls.

Final production 800,000 cu. ft. per day _____ bbls.

Well open 4 hrs. before test 900 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"			
9 5/8			
8 5/8	240	240	125 sks.
7			
5 1/2			
4 1/2		2448	125 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Weir - Fraced with 323 bbls. water - 21,000# Sand - 50,000 SCF N²

Injun - Fraced with 358 bbls. water - 16,000# Sand - 55,000 SCF N²

Coal was encountered at none Feet _____ Inches _____
Fresh water 80 Feet _____ Salt Water _____ Feet _____
Producing Sand Weir and Injun Depth W-2258-2380 I-2051-2097

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil	Brown	soft	0	10		
Sand & Shale		soft	10	1152		
1st Cow Run	White	soft	1152	1172		
Shale	Black	soft	1172	1216		
2nd Cow Run	White	soft	1216	1242		
Shale	Brown	hard	1242	1265		
Sand	White	soft	1265	1315		
Shale	Black	soft	1315	1320		
Sand	White	soft	1320	1380		
Shale	Black	soft	1380	1430		
Sand	White	soft	1430	1465		
Shale	Black	hard	1465	1493		
Sand	White	soft	1493	1540		
Shale	Brown	soft	1540	1670		
Sand	White	soft	1670	1705		
Shale	Black	soft	1705	1970		
Big lime	White	hard	1970	2051		
Big injun	White	hard	2051	2097		
Shale	Black	soft	2097	2258		
Weir	Black	soft	2258	2380		
Shale	Black	soft	2380	2456		
Berea	Black	soft	2456	2458		
Shale	Brown	soft	2458	2666	2775	
Gordon	Black	hard	2666	2695	2380	

(over)

395 Exp. Ft.

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Black	soft	2695	2775		
TD				2775		

Date May 14 19 79

APPROVED John Cushing (Owner)

By _____ Agent (Title)



RECEIVED
JAN 13 1979
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 28, 1978

Surface Owner Doddridge County Commissioner Company Industrial Gas Associates

Address West Union, West Va. Address Box 1610 Greenwich, Conn.

Mineral Owner Doddridge County Commissioner Farm Doddridge County Acres 237

Address West Union, West Va. Location (waters) Claylick Run

Coal Owner N/A Well No. 1 Elevation 921'

Address N/A District Central County Doddridge

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 9-19-79.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St., Clarksburg, W.V.

PHONE 622-3871

[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 Jan 17 1979 by P.D. Salt II made to Petroleum Services Inc. and recorded on the 18 day of Jan 1979, in Doddridge County, Book 107 Page 233

X 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, Industrial Gas Associates
(Sign Name) [Signature]
Well Operator

Box 1610
Street
Greenwich
City or Town
Connecticut, 06830
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.

47-017-2334 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."

Signed by

**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 Dallas Frederick
 ADDRESS Letter Gap, W.V. ADDRESS Box 13, Nobe, W.V.
 TELEPHONE 462-7092 TELEPHONE 354-7484
 ESTIMATED DEPTH OF COMPLETED WELL: 2500 ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 TYPE OF WELL: OIL _____ GAS _____ COMB. XX 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			
9 - 5/8			
8 - 5/8	230	230	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