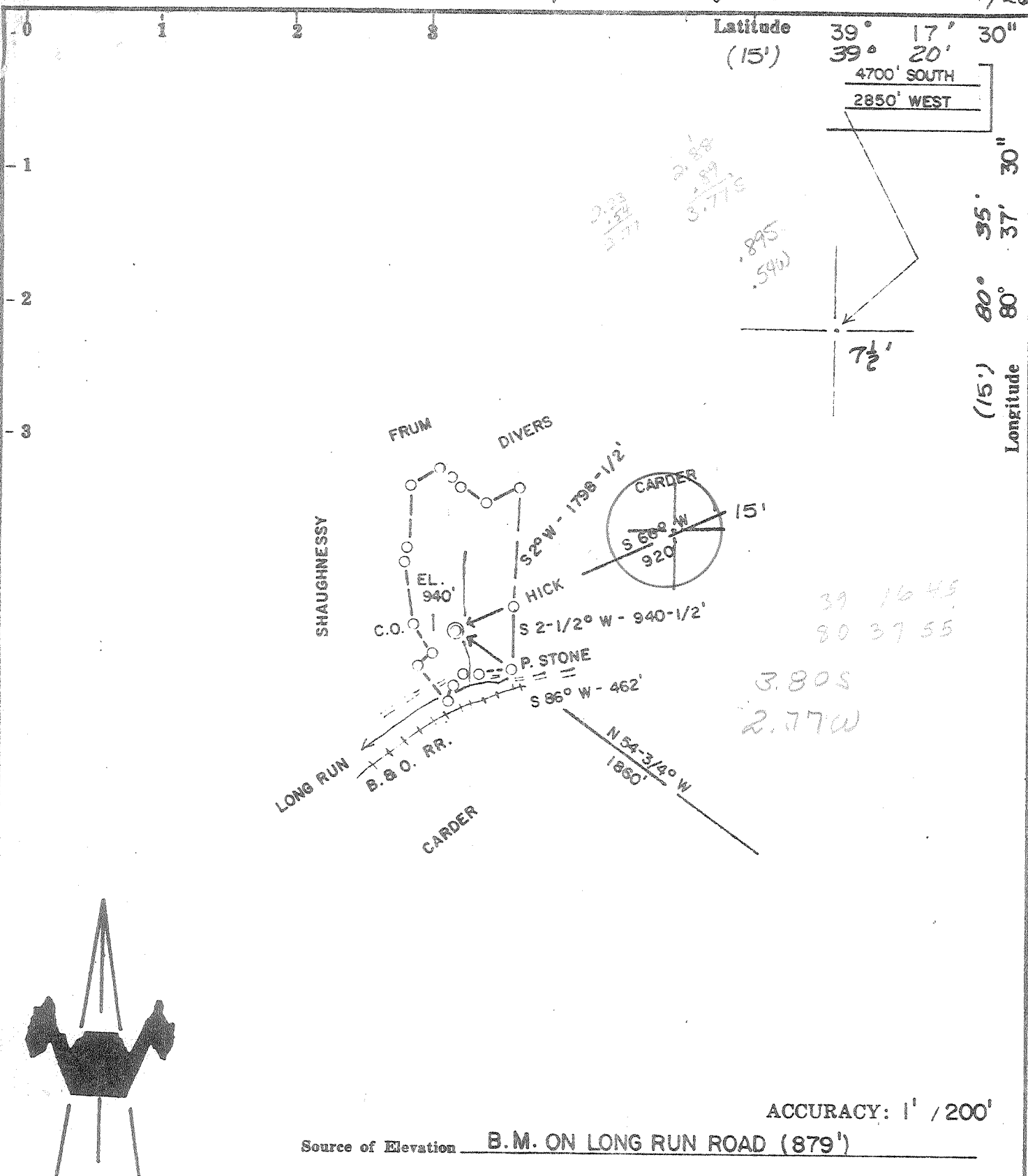


1/26/79



Latitude 39° 17' 30"  
(15') 39° 20'  
4700' SOUTH  
2850' WEST

Longitude 80° 37' 30"  
(15') 80° 35'

2.23  
1.54  
3.77

2.88  
1.89  
3.77

.895  
.540

39 16 45  
80 37 55

3.805  
2.770

ACCURACY: 1" / 200'

Source of Elevation B.M. ON LONG RUN ROAD (879')

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.

- New Location  GAS
- Drill Deeper
- Abandonment
- Fracture
- Redrill

FIFTH - 3500'

*Chet Waterman*

Company INDUSTRIAL GAS ASSOCIATES

Address BOX 1610, GREENWICH, CONN.

Farm E. SHAUGHNESSY - SURF., J. STATLER - MIN.

Tract \_\_\_\_\_ Acres 97 Lease No. \_\_\_\_\_

Well (Farm) No. 1 Serial No. \_\_\_\_\_

Elevation (Spirit Level) 940' *SC*

Quadrangle SMITHBURG (7.5' SERIES), CENTERPOINT 15'

County DODDRIDGE District GRANT

Engineer CHET WATERMAN

Engineer's Registration No. 3788

File No. 79-50 Drawing No. \_\_\_\_\_

Date 1/23/79 Scale 1" = 2000'

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

WELL LOCATION MAP  
FILE NO. 47-017-2343

+ 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. *82,500'*

— Denotes one inch spaces on border line of original tracing.

FEB 9 1979

6-4 2800' Gordon

~~SALAH~~ 102 (099)

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

APR 26 1979

Oil and Gas Division OIL & GAS DIVISION  
DEPT. OF MINES  
WELL RECORD 2

Quadrangle Smithburg 7 1/2  
Permit No. 47-017-2343

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

Company Industrial Gas Associates  
Address Box 1610, Greenwich, Conn.  
Farm Ed Shaughnessy Acres 97  
Location (waters) Long Run  
Well No. 1 Elev. 940  
District Grant County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Ona Mayles  
Address Clarksburg, W.V.  
Mineral rights are owned by John A. Statler  
Address Rt. 1 Box 36-A Pennsboro, W.V.  
Drilling Commenced 2/6/79  
Drilling Completed 2/13/79  
Initial open flow Show cu. ft. \_\_\_\_\_ bbls.  
Final production 750 cu. ft. per day 2 bbls.  
Well open 4 hrs. before test 980 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	701	701	215 Sks
7			
5 1/2			
4 1/2	2755	2755	140 Sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Gantz - Fraced with 381 BBL water - 28,000# sand & 50,000 SCF N<sup>2</sup>  
Gordon Stray & 30 foot sand - Fraced with 422 BBLs water - 28,000# sand & 50,000 SCF N<sup>2</sup>

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 104 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Gantz - Gordon Stray & 30 Foot Depth 2395 - 2692

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil	Brown	Soft	0	10		
Shales & Sandstones		Medium	10	1200		
Shale	Black	Soft	1200	1240		
Sand	White	Hard	1240	1254		
Shale	Black	Soft	1254	1280		
Sand	White	Hard	1280	1325		
Shale	Black	Soft	1325	1430		
Sand	White	Hard	1430	1470		
Sand	White	Hard	1470	1518		
Shale	Black	Soft	1518	1700		
Sand	White	Soft	1700	1745		
Shale	Black	Soft	1745	1770		
Sand	White	Hard	1770	1782		
Shale	Black	Soft	1782	1916		
Big Lime	White	Hard	1916	1965		
Big Injun	White	Soft	1965	2026		
Squaw	White	Hard	2026	2044		
Shale	Black	Soft	2044	2177		
Weir	Black	Hard	2177	2243		
Shale	Black	Soft	2243	2395		
Gantz	White	Soft	2395	2407		
Shale	Black	Soft	2407	2515		
50'	White	Soft	2515	2524		
Soile	Black	Soft	2524	2598		

MAY 8 1979

Formation	Color	Hard or Soft	Top Feet $\Sigma$	Bottom Feet	Oil, Gas or Water	* Remarks
30'	White	Soft	2598	2620		
Shale	Black	Soft	2620	2684		
Gordon Stray	White	Soft	2684	2692		
Shale	Black	Soft	2692	2755		
T.D.				2755		

Date 4-20 19 79

APPROVED *John Cushing*  
Agent



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

JAN 28 1979

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 1/25/79

Surface Owner Ona Mayles

Company Industrial Gas Associates

Address Clarksburg, West Virginia

Address Greenwich, Connecticut

Mineral Owner John A. Statler

Farm Ed. Shaughnessy Acres 97

Address Rt. 1 Box 36-A Pennsboro, W.V.

Location (waters) Long Run

Coal Owner N/A

Well No. 1 Elevation 40

Address N/A

District Grant County Doddridge

Coal Operator N/A

Quadrangle Smithburg 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 9-26-79.

INSPECTOR  
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beach Street, 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 11-24 1978 by John A. Statler made to Petroleum Services and recorded on the 29th day of Nov. 1978, in Doddridge County, Book 105 Page 613

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,

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

(Sign Name) Industrial Gas Associates  
Well Operator

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

P.O. Box 1610  
Street  
Greenwich, Connecticut  
City or Town  
*[Signature]*  
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.

47-017-2343 <sup>2343</sup> 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 \_\_\_\_\_

BLANKET LOG

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 Gene Stalnaker, Inc. NAME Dallas Frederick  
 ADDRESS Letter Gap, W.V. ADDRESS Nobe, W.V.  
 TELEPHONE 462-7092 TELEPHONE 354-7484  
 ESTIMATED DEPTH OF COMPLETED WELL: 2800 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Gordon  
 TYPE OF WELL: OIL X GAS X 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			
9 - 5/8			
8 - 5/8	<del>240</del> 400'	<del>240</del> 400'	Cir
7			
5 1/2			
4 1/2		2800'	125 Sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 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