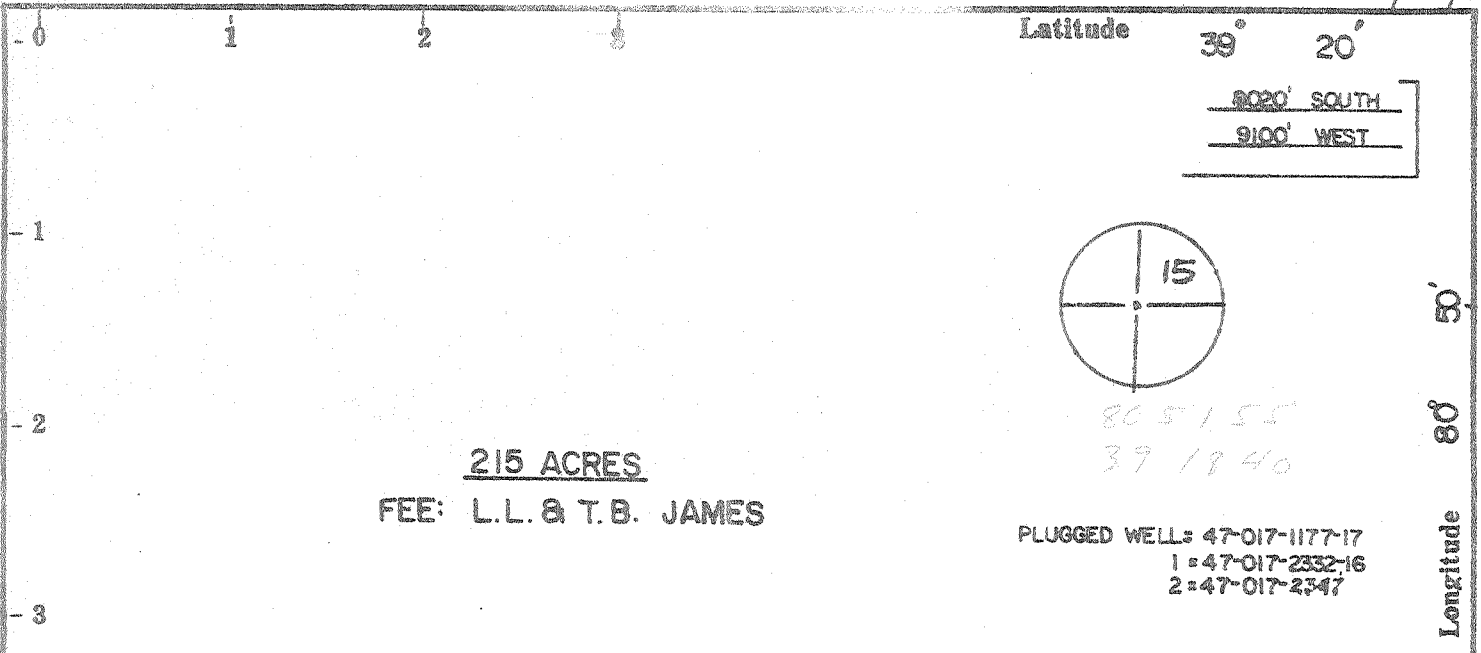
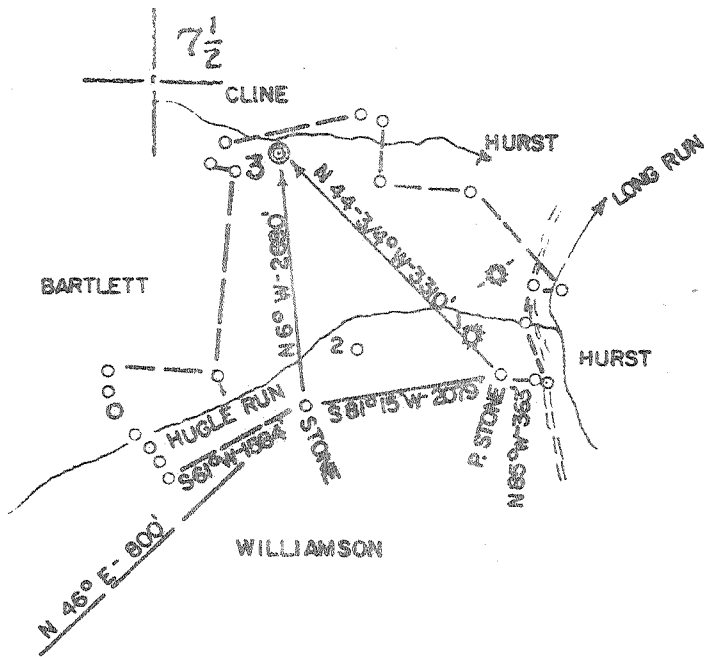


3/27/79 *R*

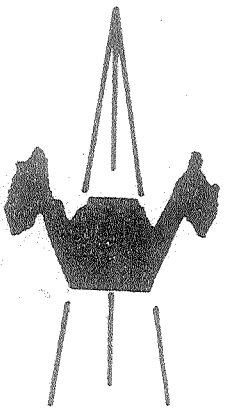


215 ACRES
FEE: L.L. & T.B. JAMES

PLUGGED WELL: 47-017-1177-17
1 = 47-017-2332-16
2 = 47-017-2347



1.545
1.75W



ACCURACY: 1' / 200'

Source of Elevation LONG RUN ROAD (802')

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

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.

WEIR 2250'

Chet Waterman

Company	INDUSTRIAL GAS ASSOCIATES	
Address	GREENWICH, CONN.	
Farm	L.L. & T.B. JAMES	
Tract	Acres 215	Lease No.
Well (Farm) No.	3	Serial No.
Elevation (Spirit Level)	850'	50
Quadrangle	WEST UNION (7.5') (15)	
County	DODDRIDGE	District CENTRAL
Engineer	CHET WATERMAN	
Engineer's Registration No.	3788	
File No.	79-178	Drawing No.
Date	3/21/79	Scale 1" = 2000'

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

WELL LOCATION MAP
FILE NO. 47-017-2362

+ 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.

APR 16 1979

2500' Berea-6 CENTRAL STATION 91 90

WELL OPERATOR'S REPORT
OF

17-017-2362
State County Permit

WELL TYPE: Gas Production X Underground storage Water Flow
LOCATION: 850 watershed: Mudlick Run of Lake Run
Central county: Doddridge Wass Union 7.5
OPERATOR: Industrial Gas Associates DESIGNATED AGENT: Dallas Frederick
Box 1611 Hope, WV
Greenwood WV 06830

PERMITTED FOR: X Drill deeper Re-drill Fracture or stimulate
Plug off old formation Perforate new formation
Other (specify change in well)

PERMIT NO. 3-06 79 OIL & GAS INSPECTOR FOR THIS WORK:
Name: Mr. Paul Gazzata
Address: 320 Beach Street
Clarksburg, WV

GEOLOGICAL UNIT: Injun & Weir Depth: 2247 feet
Water table: 30 feet N/A
None is coal being mined in the area?
4-15 19 79 and completed 4-17 19 79

CASING AND TUBING PROGRAM

TUBING TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		DEPTH OF PACKS (Feet)	PACKERS
	Size	Weight per Ft	New	Used		
Galvanneal						None
Fresh water	3 5/8 CN	22	X	240	240	131 aka
Intervalland						None
Proprietary	4 1/2 CN	10.5	X		2224	315 aka
Intervalland	1" SMO		X		2100	
Intervalland						Perforations: Top Bottom
						1770 2134

JUN 22 1979

OPERATOR: Injun & Weir DIVISION: 1765-1874
show Mer/DEPT. OF MINES 2035-2153
800 Mer/8 show 1814
900 Mer/8 show 1814

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Injun: Perforations: 1770-1854 16 Holes

Weir: Perforations: 2033-2134 16 Holes
Fraced with 407 BBL & 23,000# Sand & 35,000 SCF N²

WELL LOG

FORMATION	Color	Kind or Lift	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Still	BR	S	0	10	
Sand & Shale	BR	S	10	850	
Shale	BL	S	850	974	
Cow Run	White	S	974	998	
Shale	BL	S	998	1200	
Sand	White	H	1200	1225	
Shale	BL	S	1225	1250	
Sand	White	H	1250	1360	
Shale	BL	S	1360	1435	
Sand	White	H	1435	1462	
Shale	BR	S	1462	1707	
Lime	White	H	1707	1765	
Big Injun	BR	S	1765	1874	
Shale	BL	S	1874	2035	
Weir	BL	S	2035	2153	
Shale	BL	S	2153	2248	
TD				2248	

(Attach separate sheets if complete as necessary.)

Industrial Gas Associates
Well Operator

By Petroleum Services, Inc.

As Agent *John C. Cushing*

Indicate in
Well Log
the location of
perforations,
fractures, etc.
encountered in the
well.



RECEIVED
MAR 26 1979

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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 3/21/79

Surface Owner Lawrence James
Address Greenwood, W.V.

Company Industrial Gas Associates
Address P.O. Box 1610, Greenwich, Conn.

Mineral Owner Lawrence James
Address Greenwood, W.V.

Farm James #337 Acres 215
Location (waters) Long Run

Coal Owner N/A
Address N/A

Well No. 3 Elevation 850'

Coal Operator N/A
Address N/A

District Central County Doddridge

Quadrangle West Union 7 1/2

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 11-27-79.

Robert R. [Signature]

Deputy Director - Oil & Gas Division

INSPECTOR

TO BE NOTIFIED Mr. Paul Garrett

ADDRESS 320 Beach St., Clarksburg, W.V.

PHONE 622-3871

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 11/21 1978 by Lawrence James made to Petroleum Services, Inc. and recorded on the 29th day of Nov. 1978 in Doddridge County, Book 105 Page 605

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

Very truly yours,

Industrial Gas Associates

(Sign Name) [Signature]

Well Operator

Address
of
Well Operator

P.O. 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.

BLANKET BOND

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 Noba, W.V.
 TELEPHONE 462-7092 TELEPHONE 354-7484
 ESTIMATED DEPTH OF COMPLETED WELL: 2500 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 TYPE OF WELL: OIL X GAS _____ 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	240	240	Circ
7			
5 1/2			
4 1/2		2500	125 Sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS None _____
 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