

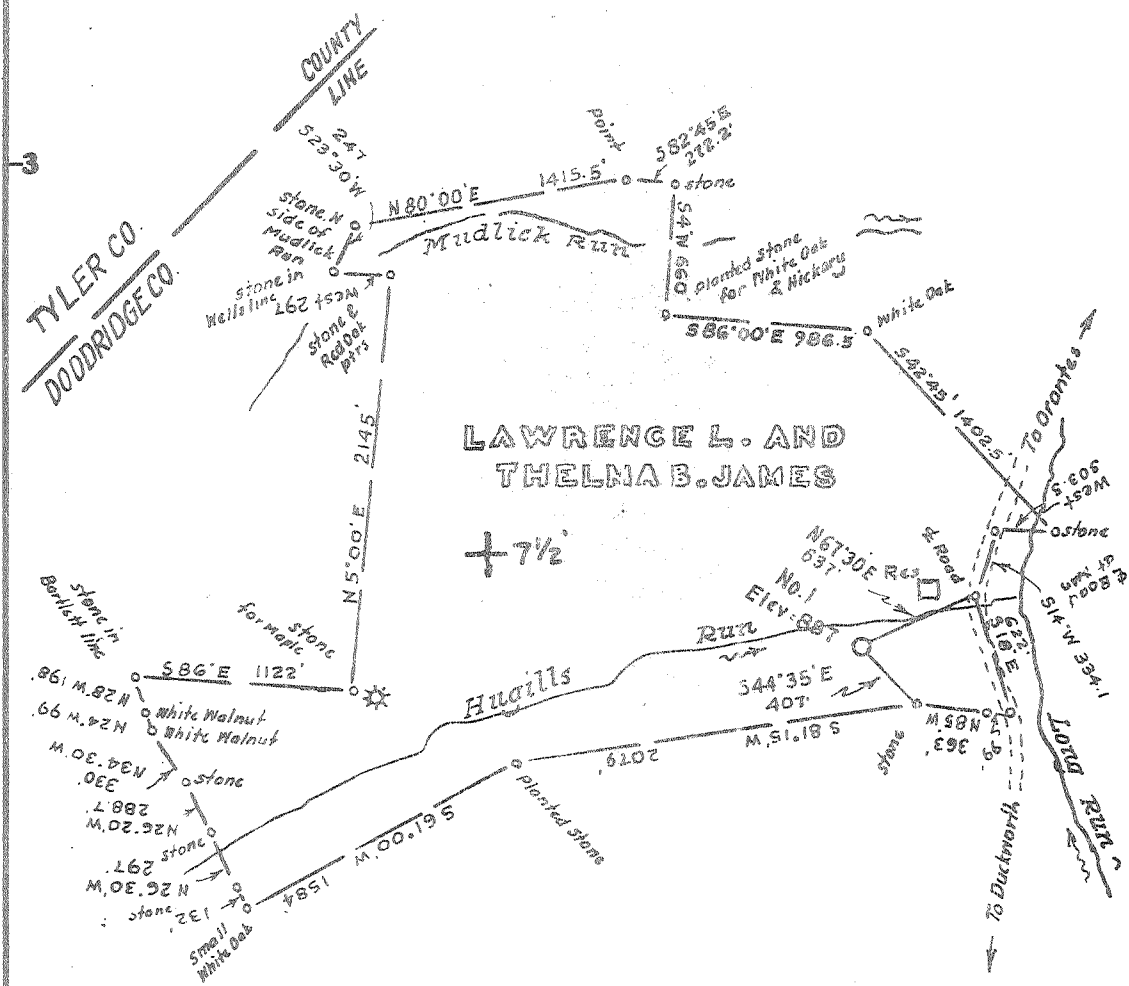
OWNERSHIP

No coal in this vicinity
 Real Estate conveyed to the James'
 in fee by Harman & Lorna Webb, by
 Deed recorded in Deed Book No
 154 at page 217.

1.92 S
 1.34 W



39 18 20
 80 51 35



LEGEND

- Lines plotted from deeds
- Surveyed Lines
- County Line
- - - - Road
- ⊛ Active or plugged well
- Well Location

Minimum Error of Closure 1 in 200

Source of Elevation USGS elevation on road between Hugill's Run and Mudlick Run, (1000' NE of location) • 802

- 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: M. J. [Signature]
 Squares: N S E W

Map No.

Company INDUSTRIAL GAS ASSOCIATES
 Address P.O. Box 1610, Greenwich, Conn.
 Farm Lawrence L. & Thelma B. James
 Tract _____ Acres 215 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 887 SC
 Quadrangle West Union 7 1/2 West Union 15
 County Doddridge District Central
 Engineer [Signature]
 Engineer's Registration No. 1227 LLS 200'
 File No. _____ Drawing No. 1919-17
 Date January 11, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 47-017-2332

+ Denotes location of well on United States Topographic Maps, scale 1 to _____, 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 Acres Greenwood (89)



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. 47-017-2332

Company Industrial Gas Associates
 Address Box 1610, Greenwich, Connecticut
 Farm Lawrence James Acres 215
 Location (waters) Hugle Run
 Well No. 1 Elev. 887
 District Central County Doddridge
 The surface of tract is owned in fee by _____
Lawrence James
 Address Greenwood, West Virginia
 Mineral rights are owned by Lawrence James
 Address Greenwood, WV
 Drilling Commenced 1-15-79
 Drilling Completed 1-21-79
 Initial open flow show cu. ft. _____ bbls.
 Final production 700,000 cu. ft. per day 2 bbls.
 Well open 4 hrs. before test 900 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	125 sks.
7			
5 1/2			
4 1/2		2256	150 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Weir - Fraced with 370 BBl's Water - 28,000# Sand - 50,000 SCF N²

Injun - Fraced with 320 BBl's Water - 19,000# Sand - 50,000 SCF N²

Coal was encountered at none Feet _____ Inches _____
 Fresh water 80 Feet _____ Salt Water _____ Feet _____
 Producing Sand Weir and Injun Depth 1792-2175

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil	Brown	Soft	0	10		
Sand and Shale - soft			10	850		
Shale - black - soft			850	930		
Sand	White	Hard	930	950		
Shale	Black	Soft	950	960		
Sand	Brown	Soft	960	1000		
Shale	Black	Soft	1000	1025		
Sand	White	Hard	1025	1050		
Shale	Black	Soft	1050	1075		
Sand	White	Soft	1075	1100		
Shale	Black	Soft	1100	1175		
Sand	Brown	Hard	1175	1200		
Shale	Black	Soft	1200	1250		
Sand	White	Soft	1250	1270		
Shale	Black	Soft	1270	1360		
Sand	White	Hard	1360	1410		
Shale	Black	Soft	1410	1440		
Sand	White	Hard	1440	1570		
Shale	Black	Soft	1570	1740		
Big lime	White	Hard	1740	1797		
Injun	White	Hard	1797	1892		
Shale	Black	Soft	1892	2054		
Shale	Brown	Soft	2054	2175		

MAY 15 1979

DEPT. OF MINES

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil, Gas or Water	* Remarks
Weir	Black	Soft	2175	2246		
Shale	Brown	Hard	2246	2248		
Berea	Black	Soft	2248	2384		
Shale	White	Hard	2384	2387		
Gordon Stray	Black	Soft	2387	2464		
Shale	White	Hard	2464	2470		
Gordon	Black	Soft	2470	2660		
Shale	Brown	Hard	2660	2660		
5th Sand	Black	Soft	2660	2713		
TD				2713		

Date May 10 1979

APPROVED *John C. Cuskey* (Owner)

By Agent



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

DEC 27 1978

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 21, 1978

Surface Owner Lawrence James

Company Industrial Gas Associates

Address Rt. #1 Greenwood, W.V.

Address Box 1610 Greenwich, Conn. 06830

Mineral Owner Lawrence James

Farm Lawrence James Acres 215

Address Rt. #1 Greenwood, W.V.

Location (waters) Hugle Run

Coal Owner N/A

Well No. / Elevation 887'

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 9-12-79.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St. Clarksburg, W.V.

PHONE 622-3871

Robert H. Dodd
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 11-21 1978 by Lawrence James made to Petroleum Services and recorded on the 29th day of November 1978 in Doddridge County, Book 105 Page 605

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.

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) John Cushing
Well Operator

Box 1610
Street
Greenwich
City or Town
Conn. 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

47-017-2332 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

Survey

**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 Stalpeker, 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	240	240	Clr
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