



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

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

State of West Virginia
COAL OPERATOR OR COAL OWNER
State Conservation Commission
Charleston - 5 - W. Va.
ADDRESS

Owens, Libbey-Owens Gas Department
NAME OF WELL OPERATOR
P. O. Box 4158, Charleston 4, W. Va.
COMPLETE ADDRESS

COAL OPERATOR OR COAL OWNER
ADDRESS

October 19, 19 48
PROPOSED LOCATION
Grant District

OWNER OF MINERAL RIGHTS
ADDRESS

Wayne County
Well No. 789 - Farm No. 51
Wilson Coal Land Company Farm

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 December 17, 1936, made by H. Rummel Anderson & Thomas B. Jackson - Special Commissioners, to Owens-Illinois Glass Co. & Libbey-Owens Ford Glass Co., and recorded on the 23 rd day of December, 1936, in the office of the County Clerk for said County in Book 188, page L-33.

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well to be drilled for oil and gas by the undersigned well operator on the farm and in the Magisterial District and County above named, determined by survey and courses and distances from two permanent points, or land marks.

The undersigned well operator is informed and believes there are no coal operators operating beds of coal beneath said farm or tract of land on which said well is located, or within 500 feet of the boundaries of the same, who have mapped their workings and filed their maps as required by law, excepting the coal operators or coal owners (if any) above named as addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if the drilling of a well at said proposed location will cause a dangerous condition in or about their respective coal mines, must be received by, or filed with the Department of Mines within ten* days from the receipt of a copy of this notice and accompanying plat by said Department. Said coal operators are further notified that forms for use in making such objections will be furnished to them by the Department of Mines promptly on request and that all such objections must set forth as definitely as is reasonably possible the ground or grounds on which such objections are based and indicate the direction and distance the proposed location should be moved to overcome same.

(The next paragraph is to be completed only in Department's copy.)

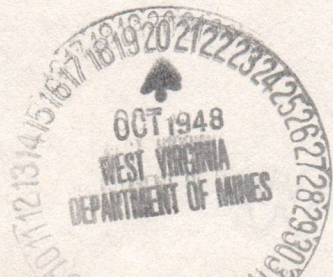
Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

OWENS, LIBBEY-OWENS GAS DEPARTMENT
WELL OPERATOR
P. O. Box 4158
STREET
Charleston 4, W. Va.
CITY OR TOWN
STATE

Address of Well Operator }

11/17/2023



*Section 3 If no such objections be filed or be found by the department of mines, within said period of ten days from the receipt of said notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a drilling permit reciting the filing of such plat, that no objections have been made by the coal operators to the location, or found thereto by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To The Department of Mines
Charleston, W. Va.

NAME OF WELL OPERATOR
STATE OF WEST VIRGINIA
COAL OPERATOR OR COAL OWNER
STATE COMMERCE COMMISSION
COMPLETE ADDRESS
ADDRESS
PROPOSED LOCATION
ADDRESS
OWNER OF MINERAL RIGHTS
ADDRESS
NAME OF WELL OPERATOR
COMPLETE ADDRESS
PROPOSED LOCATION
ADDRESS
OWNER OF MINERAL RIGHTS
ADDRESS

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas having for this purpose (or as the case may be) under grant or lease dated December 1, 1922, made by the above named land owner, and recorded on the 23rd day of December, 1920, in the office of the County Clerk for this County in Book 188 page 1-33.

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well to be drilled for oil and gas by the undersigned well operator on the farm and in the Magisterial District and County above named, determined by survey and courses and distances from two permanent points on land owned by the undersigned well operator. The undersigned well operator is informed and believes there are no coal operators or coal owners (if any) above named as adjacent to the farm or tract of land on which said well is located, or within 500 feet of the boundary of the same who have mapped their workings and filed their maps as required by law, excepting the coal operators or coal owners (if any) above named as adjacent.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if the drilling of a well at said proposed location will cause a dangerous condition in or about their respective coal mines, must be received by or filed with the Department of Mines within ten days from the receipt of a copy of this notice and accompanying plat by said Department. Said coal operators are further notified that forms for use in making such objections will be furnished to them by the Department of Mines promptly on request and that all such objections must set forth as distinctly as is reasonably possible the ground or grounds on which such objections are based and indicate the direction and distance the proposed location should be moved to overcome same.

(The next paragraph is to be completed only in Department's copy.)
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 addresses, on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

WELL OPERATOR
STATE OF WEST VIRGINIA
COAL OPERATOR OR COAL OWNER
STATE COMMERCE COMMISSION
COMPLETE ADDRESS
ADDRESS
PROPOSED LOCATION
ADDRESS
OWNER OF MINERAL RIGHTS
ADDRESS

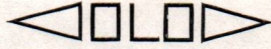
11/17/2023

Section 3. If no such objections be filed or be found by the department of mines within said period of ten days from the receipt of this notice, the proposed location of such well shall be deemed to be approved and the well operator authorized to proceed to drill at said location.

A-10

OWENS, LIBBEY-OWENS GAS DEPARTMENT

CHARLESTON 4, WEST VIRGINIA



October 19, 1948

Department of Mines
State of West Virginia
Oil and Gas Division
Charleston - 5 - W. Va.

Gentlemen:

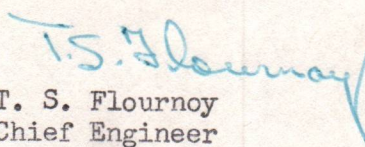
We are enclosing Notice of Proposed Location together with location plats for the following wells:

OLO No. 789 - Wilson Coal Land Company,
Farm Well No. 51, situated in Grant
District, Wayne County, W. Va.

OLO No. 790 - Wilson Coal Land Company,
Farm Well No. 52, situated in Lincoln
District, Wayne County, W. Va.

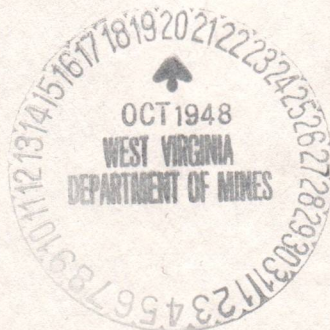
Will you please issue us a permit to drill
at your earliest convenience.

Very truly yours,


T. S. Flournoy
Chief Engineer

TSF:jt

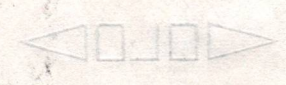
Enclosures 4



11/17/2023

OWENS, LIBBY-OWENS GAS DEPARTMENT

CHARLESTON 4 WEST VIRGINIA



October 12, 1918

Department of Mines
State of West Virginia
Oil and Gas Division
Charleston - 2 - W. Va.

Attention:

We are enclosing notice of proposed location
together with location data for the following wells:

Old No. 789 - Wilson Coal Land Company,
Farm Well No. 21, situated in Grant
District, Wayne County, W. Va.

Old No. 790 - Wilson Coal Land Company,
Farm Well No. 22, situated in Lincoln
District, Wayne County, W. Va.

All you please issue as a permit to drill
at your earliest convenience.

Very truly yours,

T. S. Barron
T. S. Barron
Chief Engineer

TSB:jt

enclosures 2



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Naugatuck

WELL RECORD

Permit No. Wayne-633

Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4158, Charleston 4, W. Va.
Farm Wilson Coal Land Company #51 Acres 9,937
Location (waters) _____
Well No. OIO No. 789 Elev. 1020.5
District Grant County Wayne
The ^{coal} surface of tract is owned in fee by State Conservation Commission Address Charleston
Mineral rights are owned by Owens, Libbey Owens Gas Dept. Address Charleston, W. Va.
Drilling commenced 11-5-1948
Drilling completed 1-29-1949
Date Shot 1-31-49 From 2440 To 3417
With 9,550# Detonite
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume Im. Injun 15 M Shale 61 M 76 M (Total) Cu. Ft.
Rock Pressure 275 lbs. 63 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			<u>Oilwell Disc Wall</u>
13			Size of _____
10	<u>279'</u>	<u>---</u>	<u>5 1/2 x 7 x 16</u>
8 1/4	<u>730'</u>	<u>730'</u>	Depth set _____
6 3/4	<u>1610'</u>	<u>1610'</u>	<u>2357-2361</u>
5 3/16			Perf. top _____
3 1/2"	<u>2361'</u>	<u>2361'</u>	Perf. bottom _____
2			Perf. top _____
Liners Used			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sandy Soil	Brown	Soft	0	18			
Sand	Light	Soft	18	32			
Sandy Soil	Brown	Soft	32	37			
Sand	Light	Soft	37	73			
Coal	Black	Soft	73	75			
Slate	Light	Soft	75	82			
Sand	Gray	Med.	82	141			
Slate	Light	Soft	141	157			
Sand	Gray	Soft	157	183			
Slate	Gray	Soft	183	235			
Sand	Gray	Soft	235	249			
Slate	Gray	Soft	249	255			
Sand	Light	Soft	255	269			
Coal	Black	Soft	269	272			
Slate	Dark	Soft	272	322			
Sand	Light	Soft	322	362			
Slate	Dark	Soft	362	370			
Sand	Gray	Med.	370	409			
Slate	Dark	Soft	409	442			
Sand	Light	Soft	442	479			
Slate	Light	Soft	479	669			
Slate	Dark	Soft	669	701			
Sand	Light	Soft	701	724			
Slate	Light	Soft	724	733			
Sand	Light	Soft	733	810			
Slate	Light	Soft	810	820			
Sand	Light	Med.	820	872			
Slate	Dark	Soft	872	1018			
Sand	Light	Med.	1018	1142	Salt Water	1106'	2 Bail Hr.
Slate	Dark	Soft	1142	1162			
Sand	Light	Hard	1162	1274	Water	1232'	11/17/2023 hole filling
Sand	Dark	Hard	1274	1396			
Slate	Dark	Soft	1396	1418			
Sand	Light	Hard	1418	1438			
Slate	Light	Hard	1438	1446			
Sand	Light	Hard	1446	1454			
Slate	Light	Soft	1454	1468			
Sand	Light	Hard	1468	1477			



FERC-121

RECEIVED
FEB 28 1979
Oil & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-099-0633			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	108 Section of NGPA	NA Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	NA feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Industrial Gas Corporation Name P. O. Box 1473 Street Charleston City		WV State	25325 Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	NA Field Name Wayne County		WV State	
(b) For OCS wells:	NA Area Name	NA Block Number	Date of Lease: Mo. Day Yr. NA OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Wilson Coal Land Co. 51-789			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	NA			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	See Addendum "A" Houdaille Industries, Inc. Name		N/Available Buyer Code	
(b) Date of the contract:	1 2 2 6 7 3 Mo. Day Yr.			
(c) Estimated annual production:	1.1 MMcf.			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
See Addendum "A"	1 2 8 3	0 0 5 1	0 0 0 3	1 3 3 6
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.2 4 3	0.3 0 2	0.0	2.5 4 5
9.0 Person responsible for this application:	William C. Charlton Name Division Counsel Title <i>William C. Charlton</i> Signature 02 / 28 / 79 Date Application is Completed (304) 342-8166 Phone Number			

11/17/2023

Agency Use Only
 Date Received by Juris. Agency
FEB 28 1979
 Date Received by FERC

WELL DETERMINATION REPORT

PARTICIPANTS:

DATE: OCT 11 1977

BUYER-SELLER CODE

WELL OPERATOR: Industrial Gas Corporation

009283

FIRST PURCHASER: Houdaille Industries, Inc.

OTHER: _____

*Quaspar Section 108. Stuffed well
Registered no production reported after June 1977
Peters & Co.
New production 7/3/80 dr.*

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
790228-108-099-0633
Use Above File Number on all Communications
Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1 FERC-121 Items not completed - Line No. _____
- 2 IV-1 - Agent William C. Charlton
- 3 IV-2 - Well Permit
- 4 IV-6 - Well Plat
- 5 IV-35- Well Record Drilling Deepening _____
- 6 IV-36- Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7 IV-39- Annual Production 2 years
- 8 IV-40- 90 day Production 90 Days off Line: _____
- 9 IV-48- Application for Certification. Complete?
- 10 - 17 IV Form #51 - 52 - 53 - 54 - 55 - 56 - 57 - 58. Complete Affidavit Signed
- 18 - 28 Other: Survey _____ Logs _____ Geological Charts _____ Structure Map _____
1:4000 Map _____ Well Tabulations _____ Gas Analyses _____
- (5) Date Completed: 11-5-49 Deepened _____
Fracs 1-31-49
- (5) Production Depth: 1766-1842; 3269-3362
- (5) Production Formation: Sand; Shale
- (5) Final Open Flow
Initial Potential: 113 MCFD
- (5) Static R.P. After Frac 275 # 63 hrs.
~~Initially~~
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: 2483 365 = 6.6 mcf, No oil
- (8) Avg. Daily Gas from 90-day ending w/1-120 days 1036 95 = 10.5 mcf, No oil
- (8) Line Pressure: NA PSIG from Daily Report
- (5) Oil Production: NO From Completion Report 11/17/2023
- (10-17) Does lease inventory indicate enhanced recovery being done: NO
- (10-17) Is affidavit signed? Notarized?

Does official well record with the Department confirm the submitted information? yes

Additional Information _____ Does computer program confirm? _____

Was Determination Objected to? _____ By Whom? _____

mk

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

Date 02/28 1979

Operator's Well No. 51-789

API Well No. 47 - 099 - 0633
State County Permian

WELL CLASSIFICATION FORM

STRIPPER GAS WELL

NGPA Section 108

DESIGNATED AGENT William C. Charlton

ADDRESS P. O. Box 1473
Charleston, WV 25325

WELL OPERATOR Industrial Gas Corporation LOCATION: Elevation 1,020.5 '

ADDRESS P. O. Box 1473 Watershed Not Available
Charleston, WV 25325

GAS PURCHASER * _____ Dist. Grant County Wayne Quad. Naugatuck

ADDRESS _____ Gas Purchase Contract No. * _____

_____ Meter Chart Code R0002

_____ Date of Contract * _____

*See FERC-121 - Addendum "A"

* * * * *

Provide a complete inventory of the lease and production equipment used for the well for the previous 24 months or, if less than 24 months, the period the well has been in production. Include a complete list of equipment or processes used in connection with recognized enhanced recovery techniques during completion or production. (Attach separate sheets, if necessary.)

(See Attachment)

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, B&O Tax Records and royalty payment records) and indicate the location of such records:

All records required to determine production by meter stations are maintained in Charleston, West Virginia.

B&O Tax Records are located in Charleston, West Virginia, our Boston, Massachusetts office and the Houston, Texas office.

Royalty payment instructions are located in Charleston, West Virginia office and Houston, Texas office.

11/17/2023

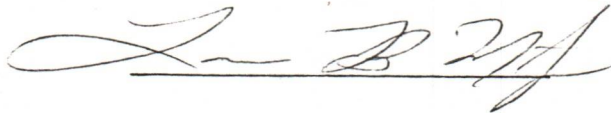
Describe the search made of any records listed above:

I have made a diligent search of the production records located in Charleston, West Virginia. They were the records utilized in making the determination herein.

Are you aware of any other information which would tend to be inconsistent with the information specified above? Yes No . If yes, indicate the type and source of the information.

AFFIDAVIT

I, Lawrence B. Mentzer, having been first sworn according to law, state that I have caused to be made a diligent search of those records hereinbefore indicated in the manner herein described, that the information contained in this document is true and accurate and that on the basis of the records and examinations hereinbefore described, and to the best of my information, knowledge and belief, the well for which this certification is sought qualifies as a stripper well.



STATE OF WEST VIRGINIA,

COUNTY OF Kanawha, TO WIT:

I, Charlotte I. Mathews, a Notary Public in and for the state and county aforesaid, do certify that Lawrence B. Mentzer whose name is signed to the writing above, bearing date the 28 day of February, 1979, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 28 day of February, 1979.

My term of office expires on the 5th day of December, 1985.

11/17/2023

Charlotte I. Mathews
Notary Public

RECEIVED

MAR 31 1980

1.0 API well number: (If not available, leave blank. 14 digits.)	47- 099-0633			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA		OIL & GAS DIVISION DEPT. OF MINES NA Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	NA feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Tug Fork Corporation Name P. O. Box 3711 Street Charleston WV 25337 City State Zip Code		N/A Seller Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	NA Field Name Wayne WV County State			
(b) For OCS wells:	NA Area Name		NA Block Number	
	Date of Lease: Mo. Day Yr.		NA OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Wilson Coal Land Co.		51-789	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	NA			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tennessee Gas Pipeline Company Name		018629 Buyer Code	
(b) Date of the contract:	081780 Mo. Day Yr.			
(c) Estimated annual production:	1.1 MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	2.404	324	0.0	2.728
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.404	3.24	0.0	2.728
9.0 Person responsible for this application:	Lawrence B. Mentzer Name Title Corporate Attorney			
Agency Use Only	Signature			
Date Received by Juris. Agency	MAR 3 1980			
MAR 21 1980	Date Application is Completed			
Date Received by FERC	(304) 342-8166 Phone Number			

11/17/2023

PLICANTS:

DATE: AUG 14 1980

BUYER-SELLER CODE

WELL OPERATOR: Tag Fork Corp.

NA

FIRST PURCHASER: Tennessee Gas Pipeline Co.

018629

OTHER: _____

Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
700331-107-699-0633
 See Above File Number on all Communications
 Relating To Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- NO. _____
1. FERC-121 Items not completed - Line No. _____
 2. IV -1 Agent Lawrence B. Mentzer
 3. IV-2 Well Permit _____
 4. IV.6 Well Plat
 5. IV-35 Well Record Drilling Deepening _____
 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
 7. IV-39 Annual Production No Prod years _____
 8. IV-40 90 day Production _____ Days off Line: _____
 9. IV-48 Application for certification. Complete? _____
 7. IV Form #51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? _____ AFFIDAVIT SIGNED? _____
 8. Other: Survey Logs _____ Geological Charts _____
 Structure Map _____ 1:4000 Map _____ Well Tabulations _____
 Gas Analyses _____
 - (5) Date commenced: 11/5/48 Date completed 1/31/41 Deepened _____
 - (5) Production Depth: 1766/1842; 3269/3362
 - (5) Production Formation: Sand; Slatet Shells
 - (5) Final Open Flow: 76 mcf/d
 - (5) After Free. B.P. 275 #
 - (6) Other Gas Test: _____
 - (7) Avg. Daily Gas from Annual Production: _____ No Prod
 - (8) Avg. Daily Gas from 90-day ending w/1 - 120 days _____ " "
 - (8) Line Pressure: _____ None PSIG from Daily Report _____
 - (5) Oil Production: No From Completion Report _____
 - (7) Does lease inventory indicate enhanced recovery being done No 11/17/2023
 - (7) Is affidavit signed? Notarized? _____
 - Official well record with the Department confirm the submitted information? yes
 - Original Information _____ Does computer program confirm? _____
 - Termination Objected to? _____ By Whom? _____

PL.

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

Date MAR 2 1980, 19__

Operator's Well No. 51-789

API Well No. 47 - 099 - 0633
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL

NGPA Section 107

DESIGNATED AGENT Lawrence B. Mentzer

ADDRESS P. O. Box 3711

Charleston, W. Va. 25337

LOCATION: Elevation 1020.5

Watershed N/A

Dist. Grant County Wayne Quad. Naugatuck

WELL OPERATOR Tug Fork Corporation

ADDRESS P. O. Box 3711

Charleston, W. Va. 25337

GAS PURCHASER Tennessee Gas Pipeline Company

Gas Purchase Contract No. TF-1

ADDRESS P. O. Box 2511

Houston, Texas 77001

Meter Chart Code R0002

Date of Contract 08/17/80

* * * * *

AFFIDAVIT

I, James O. Sayre, having been first sworn according to law, state that, the well is producing natural gas produced from the fractures, micropores and bedding planes of shales deposited during the Paleozoic Devonian Period as generally found in the subsurface of the Appalachian Basin and in the surface out crops around its periphery. For the purposes of this statement, Devonian shale is defined as that shale stratigraphic interval that lies between the base of the Mississippian Berea Sand or, if absent, that of the Osage Series, and the top of the Onondaga limestone formation or its chert equivalent, the top of the Huntersville group of carbonates. I have no knowledge of any information not included in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

James O. Sayre
Geologist

STATE OF WEST VIRGINIA,
COUNTY OF Kanawha, TO WIT:

I, Charlotte I. Mathews, a Notary Public in and for the state and county aforesaid, do certify that James O. Sayre, whose name is signed to the writing above, bearing date the 3rd day of March, 19 80, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 3rd day of March, 19 80
My term of office expires on the 5th day of December, 19 85.

Charlotte I. Mathews
Notary Public

[NOTARIAL SEAL]

11/17/2023

ELECTRIC LOGS

With reference to this well, please note that, at the time of the drilling hereof, neither electric logs nor the technology for logging were available. In lieu of actual electric logs on this well, we hereby refer to the gamma ray log and temperature log of the Caldwell & Colton Min. #20,289-T, Permit No. Wayne 1581. Our geologist(s) submit that these logs are representative of the area and shows the same or similar formations and structures as encountered in the well herein filed for.

Please refer to 107 Tug Fork well certification filing on Well No. 3-521, API No. 47-099-0019 for a copy of the said gamma ray and temperature logs applicable herein.

11/17/2023

