FORM OG-1

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.

COAL OPERATOR OR COAL OWNER	UNITED FUEL GAS CO., NAME OF WELL OPERATOR
ADDRESS	% G. H. Moore P.O. Box 1273, Charleston 25, W. Va. COMPLETE ADDRESS
COAL OPERATOR OR COAL OWNER	July 12, 19 48 PROPOSED LOCATION
ADDRESS	Grant District
UNITED FUEL GAS CO., OWNER OF MINERAL RIGHTS	Wayne County
P.O. Box 1273, Charleston 25, W. Va. ADDRESS	Well No. 6352 38° 10' 82° 15'
	UNITED FUEL GAS CO., Mineral Tract #1 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~~ Deed dated December 26, 1946, made by HUNTINGTON DEV. & GAS CO., to UNITED FUEL GAS CO., and recorded on the 27th day of December, 1946, in the office of the County Clerk for said County in Book 234, page 318.

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 Same 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,

JUL 1948 WEST VIRGINIA DEPARTMENT OF MINES

UNITED FUEL GAS CO.,
WELL OPERATOR

Address of Well Operator

% G. H. Moore
STREET

P.O. Box 1273, Charleston 25, W. Va.
CITY OR TOWN

West Virginia
STATE

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.

JARRETT PRINTING COMPANY, CHARLESTON, W. VA.

WAY-591 PERMIT NUMBER

591

FORM OG-1

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.

COAL OPERATOR OR COAL OWNER

ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

UNITED FUEL GAS CO.
OWNER OF MINERAL RIGHTS

P.O. Box 1272, Charleston 25, W. Va.
ADDRESS

UNITED FUEL GAS CO.
NAME OF WELL OPERATOR

S. G. H. Moore
P.O. Box 1272, Charleston 25, W. Va.
COMPLETE ADDRESS

July 12, 19 48

PROPOSED LOCATION

Grant District

Wayne County

Well No. 6352 38°/15

UNITED FUEL GAS CO.
Mineral Tract #1 Farm

GENTLEMEN:

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(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 Same 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,

UNITED FUEL GAS CO.
WELL OPERATOR

S. G. H. Moore
STREET

P.O. Box 1272, Charleston 25, W. Va.
CITY OR TOWN

West Virginia
STATE

Address of Well Operator

11/17/2023

*Section 3 . . . 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 covering 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.

MAY-6931 Permit Number

(JARRETT PRINTING COMPANY, CHARLESTON, W. VA.)

July 23, 1948

United Fuel Gas Company
c/o G. H. Moore
Box 1273
Charleston, West Virginia

Gentlemen:

Enclosed is permit WAY-591 to drill Well No. 6352 on the United Fuel Gas Company Mineral Tract No. 1, Grant District, Wayne County.

Very truly yours,

Administrative Assistant
OIL AND GAS DIVISION

CMH:K
Encl-2

CC: Inspector D. E. Lawson

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells			1776	2205			
Lime Shells			2205	2225			
Slate			2225	2310			
Coffee Slate			2310	2331			
Berea Grit			2331	2360			
Slate			2360	2400			
Brown Shale			2400	2455	Oil	2645'	Show.
White Slate			2455	2830			
Brown Shale			2830	2900			
White Slate			2900	2950			
Brown Shale			2950	2965			
White Slate			2965	3000			
Brown Shale			3000	3380			
White Slate			3380	3387			
Total Depth			3387'				

Not enough gas to test before shot.
Shot 11-4-48 with 6,000# Gel. 2830-3387.
Test 23 Hrs. after shot 3/10 W 2" 73 M.

OPEN FLOW - 73 M - Shale

48 Hr. R.P. 540#

Shut in 11-5-48 in 6-5/8" Casing.

Way
591

11/17/2023

Date January 17, 19 49

APPROVED United Fuel Gas Co., Owne

By G. H. Moore
Chief Engineer (Title)

-10

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Wayne

WELL RECORD

Oil or Gas Well Gas (KIND)

Permit No. WAY-591

Company United Fuel Gas Co.
Address P. O. Box 1273, Charleston 25, W.Va.
Farm U.F.G.Co. Min. Tr. #1 Acres 38,448.03
Location (waters) Lick Cr. of Twelvepole Cr.
Well No. 6352 Elev. 1063.60 Gr.
District Grant County Wayne
The surface of tract is owned in fee by
Address
Mineral rights are owned by United Fuel Gas Co.
P. O. Box 1273 Address Chas. 25, W. Va.
Drilling commenced 9-1-48
Drilling completed 11-1-48
Date Shot 11-4-48 From 2830 To 3387
With 6000# Gel.
Open Flow 3 /10ths Water in 2" Inch
/10ths Merc. in Inch
Volume 73 M - Shale Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
Fresh water 50 feet feet
Salt water 1020, 1100 feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	35	35	Size of
8¼	455	455	
6⅝	1561	1561	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 80 FEET 48 INCHES
435 FEET 48 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	34			
Sand			34	38			
Slate			38	50	Water	50'	1/2 B.P.H.
Sand			50	56			
Slate			56	80			
Coal			80	84			
Slate			84	115			
Sandy Lime			115	145			
Slate			145	185			
Sand			185	325			
Slate			325	335			
Sand			335	410			
Slate			410	435			
Coal			435	439			
Slate			439	445			
Sand			445	500			
Slate			500	540			
Sand			540	600			
Slate			600	795			
Sand			795	825			
Slate & Shells			825	950	Water Sand	1020'	
1st Salt Sand			950	1300	Gas	1030'	In Salt Sand
Slate			1300	1302	Water	1100'	Hole Full
2nd Salt Sand			1302	1400			
Slate			1400	1410			
Red Rock			1410	1415			
Slate			1415	1420			
Red Rock			1420	1426			
Slate			1426	1465			
Red Rock			1465	1475			
Slate			1475	1480			
Maxon Sand			1480	1500			
Slate			1500	1505			
Little Lime			1505	1536	Gas & Oil	1695'	Show
Big Lime			1536	1714			
Keener Sand			1714	1735			
Red Rock			1735	1750	Oil	1770'	Small Show
Injun Sand			1750	1776			

11/17/2023

(Over)

FERC-121

Form Approved
OMB No. 038-R0381

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

Section of NGPA	Category Code	Description
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	–	New onshore production well
107	–	High cost natural gas
108	–	Stripper well

Other Purchasers/Contracts:

Contract Date (Mo. Day Yr.)	Purchaser	Buyer Code

Remarks:

FT7900806/1-2

11/17/2023

FERC-121

RECEIVED
JUN 3 1982
OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47-099-00591-
2.0 Type of determination being sought (Use the codes found on the front of this form.)	107 DV (Section of NGPA) — (Category Code)
3.0 Depth of the deepest completion location. (Only needed if sections 103 or 107 in 2.0 above.)	3387 feet
4.0 Name, address and code number of applicant. (35 letters per line maximum. If code number not available, leave blank.)	Name: Columbia Gas Transmission Corporation; Seller Code: 004030 Street: P. O. Box 1273 City: Charleston; State: WV; Zip Code: 25325
5.0 Location of this well. [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Name: WV Field Area B County: Wayne; State: WV
(b) For OCS wells	Area Name: NA; Block Number: Date of Lease: Mo. Day Yr.; OCS Lease Number:
(c) Name and identification number of this well. (35 letters and digits maximum.)	ICO Min. Tr. No. 1 806352
(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.)	Name: * ; Buyer Code: 004030
(b) Date of the contract:	Mo. Day Yr. *
(c) Estimated total annual production from the well.	1 Million Cubic Feet

		(a) Base Price	(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.)	$/MMBTU	—.—	—.—	—.—	—.—
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	$/MMBTU	Dereg	—.—	—.—	—.—

9.0 Person responsible for this application:	Name: Albert H. Mathena, Jr.; Title: Director, Production Eng. Signature: Albert H. Mathena Date Application is Completed: 5-20-82; Phone Number: (304) 346-0951
Agency Use Only Date Received by Juris. Agency: JUN 3 - 1982	
Date Received by FERC	

*This is a pipeline production well. No contract exists and no sales are made.

11/17/2023

FORM IV-55WC
(12-78)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

Date 5-20-82

Operator's
Well No. 806352

API Well No.

47 - 099 - 00591
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT James L. Weekley

ADDRESS P. O. Box 1273
Charleston, WV 25325

LOCATION Elevation 1063.60'

Watershed

Dist. Stonewall County Wayne Quad.

Gas Purchase
Contract No. N.A.

Meter Chart Code

Date of Contract N.A.

WELL OPERATOR Columbia Gas Trans. Corp.

ADDRESS P. O. Box 1273
Charleston, WV 25325

GAS PURCHASER N.A.

ADDRESS

This is a pipeline production well and no gas purchase contract exists.

* * * * * * * *

Date surface drilling began: 9-1-1948

Indicate the bottom hole pressure of the well and explain how this was calculated.

See Supplement

AFFIDAVIT

I, Albert H. Mathena, Jr., having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Albert H Mathena Jr

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA, TO-WIT:

I, Larry G. Burdette, a Notary Public in and for the state and county aforesaid, do certify that Albert H. Mathena, Jr., whose name is signed to the writing above, bearing date the 20 day of May, 1982, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 20 day of May, 1982.

My term of office expires on the 13 day of August, 1989.

Larry G Burdette
Notary Public

(NOTARIAL SEAL)

11/17/2023

way-591

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

BEFORE THE OFFICE OF OIL AND GAS
OF THE DEPARTMENT OF MINES
OF THE STATE OF WEST VIRGINIA

IN THE MATTER OF THE APPLICATIONS OF COLUMBIA GAS TRANSMISSION CORPORATION REQUESTING CLASSIFICATION UNDER SECTION 107 OF THE NATURAL GAS POLICY ACT OF CERTAIN WELLS IN BOONE, CABELL, JACKSON, KANAWHA, LINCOLN, LOGAN, MINGO AND WAYNE COUNTIES, WEST VIRGINIA.	CAUSE NO. 33 ORDER NO. 1

REPORT OF THE OFFICE

This cause came before the Administrator of the Office of Oil and Gas on June 28, 1982, at 1:00 p.m., in Conference Room C, Capitol Conference Center, Charleston, West Virginia, after giving notice of hearing as required by law on the applications of Columbia Gas Transmission Corporation for certification of certain wells in Boone, Cabell, Jackson, Kanawha, Lincoln, Logan, Mingo and Wayne Counties as Devonian Shale wells under Section 107(c)(4) of the Natural Gas Policy Act.

FINDINGS OF FACT

1. Applicant is an operator within the meaning of paragraph (w) of Chapter 22-4-1.

2. Applicant has made filings for certification pursuant to Rule 34.04.

3. The Natural Gas Policy Act (NGPA) in Section 107, Ceiling Price For High-Cost Natural Gas--(c) Definition of High-Cost Natural Gas-- "For purposes of this section, the term "high-cost natural gas" means natural gas determined in accordance with Section 503 to be....(4) produced from Devonian Shale."

4. The Federal Energy Regulatory Commission (FERC) by Rule 272.101-(c) prescribes the method by which the jurisdictional agency may determine gas produced from Devonian Shale.

5. Exhibits refer to evidence gathered at a public hearing held June 28, 1982.

6. Exhibits No. 2 and 3 lists the wells to be under consideration for Section 107 pricing. All these wells are located on Exhibits No. 4 and 5 and have been completed in the Devonian Shale.

7. Applicant, by letter dated June 25, 1982 (Exhibit No. 3) requested that eight (8) of the wells listed on Attachment A be stricken from the docket for hearing and they have been withdrawn.

8. Exhibit No. 6 shows random sampling of already qualified Devonian Shale wells.

9. Various cross-sections throughout the interval show gamma ray logs of the wells (see Exhibits Nos. 7, 8 and 9).

10. No well has any non-shale greater than 5% in the Devonian interval penetrated.

11. No gamma ray logs are available on these wells since they were all drilled before logging was common in West Virginia.

CONCLUSION OF LAW

1. That due notice of the time, place and purpose of the hearing has been given in all respects as required by law.

2. That pursuant to Chapter 22, Article 4, Code of West Virginia of 1931, as amended, the Office has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

ORDER

NOW, therefore, based on the aforementioned Findings of Fact and Conclusion of Law, it is found by the Administrator that Columbia Gas Transmission Corporation's applications for classification under Section 107 of the Natural Gas Policy Act for certain wells in Boone, Cabell, Jackson, Kanawha, Lincoln, Logan, Mingo and Wayne Counties, identified in Attachment A, are approved.

The Office of Oil and Gas further incorporates the Report of the Office and Findings of Fact and Conclusion of Law dated June 28, 1982, as if the same were fully set forth and includes hereto the Report of the Office and Findings of Fact and Conclusion of Law as a part of this Order.

Entered this 12th day of July, 1983.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
OF THE DEPARTMENT OF MINES
OF THE STATE OF WEST VIRGINIA

By: _____
Theodore M. Streit, Administrator