



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.

None
COAL OPERATOR OR COAL OWNER

ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

UNITED FUEL GAS CO.
OWNER OF MINERAL RIGHTS

P. O. Box 1273,
Charleston 25, W. Va.

ADDRESS

UNITED FUEL GAS CO.
NAME OF WELL OPERATOR

% G. H. Moore
P. O. Box 1273, Charleston 25, W. Va.

COMPLETE ADDRESS

October 13, 19 48

PROPOSED LOCATION

Grant District

Wayne County

Well No. 6439 38° 05'
82° 15'

UNITED FUEL GAS CO.
Mineral Tract No. 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 ^{Deed} ~~grant or lease~~ 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,

UNITED FUEL GAS CO.

WELL OPERATOR

% G. H. Moore

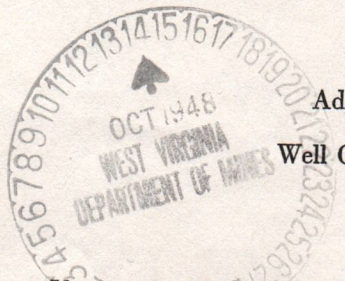
STREET

P.O. Box 1273, Charleston 25, W. Va. 11/17/2023

CITY OR TOWN

West Virginia.

STATE



Address of Well Operator }

*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.

626

October 25, 1948

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

Gentlemen:

Enclosed is permit WAY-626 to drill Well
No. 6439 on the United Fuel Gas Company Mineral Tract
No. 1, Grant District, Wayne County.

Very truly yours,

Administrative Assistant
OIL AND GAS DIVISION

CME:K
Encl-2

CC: Inspector D. E. Lawson

11/17/2023

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shells			2461	2467			
Slate			2467	2496			
Brown Shale			2496	2540			
Slate & Shells			2540	2580			
Light Gray Slate			2580	2885			
Dark Gray Slate			2885	3100			
Light Br. Shale			3100	3238			
Dark Br. Shale			3238	3429			
White Slate			3429	3439			
Total Depth			3439'				No gas in Shale before shot. Shot 11-16-48 with 2266-2/3# Gel. 309 3436. Test 20 hrs. after shot 4/10 W 1" 21M
							<u>OPEN FLOW - 21 M - Shale</u> 48 Hr. R.P. 230# Shut in 11-17-48 in 6-5/8" Casing.

11/17/2023

Date January 17, 19 49

APPROVED United Fuel Gas Co. Owner

By *G. H. Moore*
Chief Engineer (Title) R.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Wayne

WELL RECORD

Permit No. WAY-626

Oil or Gas Well Gas
(KIND)

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) McComas Br.
Well No. 6439 Elev. 1060.36
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 9-6-48
Drilling completed 11-13-48
Date Shot 11-16-48 From 3093 To 3436
With 2266-2/3# Gel.

Casing and Tubing Size	Used in Drilling	Left in Well	Packers
16			Kind of Packer
13			
10	31	31	Size of
8 1/4	408	408	
6 5/8	1652	1652	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow 4 /10ths Water in 1" Inch
_____ /10ths Merc. in _____ Inch
Volume 21 M - Shale Cu. Ft.
Rock Pressure 230 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 60, 385 feet _____ feet
Salt water 1222 feet _____ feet

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 374 FEET 36 INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	20	Water	60'	1 B.P.H.
Slate			20	150			
Sand			150	210			
Slate			210	225			
Sand			225	259			
Slate			259	300			
Sand			300	374			
Coal			374	377	Water	385'	5 B.P.H.
Slate			377	422			
Sand			422	480			
Slate			480	510			
Sand			510	584			
Slate			584	588			
Sand			588	669			
Slate			669	754			
Broken Sand			754	813			
Slate			813	840			
Sand			840	945			
Slate			945	1118			
Gas Sand			1118	1185	Water	1222'	Hole full.
Salt Sand			1185	1435			
Slate & Shells			1435	1450			
Sand			1450	1475			
Slate & Shells			1475	1485			
Maxon Sand			1485	1530			
Slate & Shells			1530	1550			
Red Rock			1550	1570			
Slate			1570	1598			
Little Lime			1598	1633			
Pencil Cave			1633	1636	Oil	1695-1700'	5 B.P.H.
Big Lime			1636	1837	Gas	1800-1811'	11/17/2023
Red Injun			1837	1877			
Slate & Shells			1877	2382			
Brown Shale			2382	2415			
Berea Sand			2415	2438			
Slate			2438	2443			
Sand			2443	2458			
Slate			2458	2461			



UNITED FUEL GAS CO.
COMPANY

SERIAL WELL NO. 6439

LEASE NO. Ref. 24689

MAP SQUARE 24-35

RECORD OF WELL NO. <u>6439</u> on the U.F.G.Co. Mine Tr. #1 farm of <u>38448.03</u> Acres in <u>Grant</u> District <u>Wayne</u> County State of: <u>West Virginia</u> Field: <u>Branchland</u> Rig Commenced <u>8/30/48</u> 194 Rig Completed <u>9/6/48</u> 194 Drilling Commenced <u>9/6/48</u> 194 Drilling Completed <u>11/13/48</u> 194 Drilling to cost <u>\$2.50</u> per foot Contractor is: <u>R. W. Ray</u> Address: <u>Hamlin, W. Va.</u> Driller's Name <u>Cabell Miller</u> <u>Frank Adkins</u> Elevation: <u>1060.36</u>	CASING AND TUBING <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SIZE</th> <th>WEIGHT</th> <th>USED IN DRILLING</th> <th>LEFT IN WELL</th> </tr> <tr> <td>10"</td> <td>32.75#</td> <td>31'-0"</td> <td>31'-0"</td> </tr> <tr> <td>8-1/4"</td> <td>24#</td> <td>408'-9"</td> <td>408'-9"</td> </tr> <tr> <td>6-5/8"</td> <td>20#</td> <td>1722'-9"</td> <td>1722'-9"</td> </tr> </table>	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	10"	32.75#	31'-0"	31'-0"	8-1/4"	24#	408'-9"	408'-9"	6-5/8"	20#	1722'-9"	1722'-9"	TEST BEFORE SHOT 0 /10 of Water in... 1... incl /10 of Merc. in... incl Volume... 0... Cu. ft TEST AFTER SHOT 4 /10 of Water in... 1... incl /10 of Merc. in... incl Volume... 21.06... Cu. ft 20... Hours After Sho Rock Pressure... 230# 48 hr Date Shot... 11/16/48 Size of Torpedo... 4-1/4" X 10" SHUT IN Date... Nov. 17, 1948 6-5/8" in. Casing Size of Packer... 6-5/8" X 8-1/4" Kind of Packer... Bottom Hole 1st. Perf. Set... from... 2nd Perf. Set... from... Oil Flowed... bbls. 1st 24 hr Oil Pumped... bbls. 1st 24 hr Well abandoned and Plugged... 194...
SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL															
10"	32.75#	31'-0"	31'-0"															
8-1/4"	24#	408'-9"	408'-9"															
6-5/8"	20#	1722'-9"	1722'-9"															

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Soil	0	20	20	
Slate	20	150	130	Water at 60'- 1 bailer per hour
Sand	150	210	60	
Slate	210	225	15	
Sand	225	259	34	
Slate	259	300	41	
Sand	300	374	74	
Coal	374	377	3	
Slate	377	422	45	Water at 385'- 5 bailers per hour
Sand	422	480	58	
Slate	480	510	30	
Sand	510	584	74	
Slate	584	588	4	
Sand	588	669	81	
Slate	669	754	85	
Broken Sand	754	813	59	
Slate	813	840	27	

APPROVED

[Signature]

11/17/2023

11/16/48 19

Mr. J. R. Hussey, Div. Supt.

Well No. 6439 (Serial No.) on U.F.G. Co. Min. Tract #1 Farm

Was shot this date with 2266 2/3# Du Pont Gelatin quarts

Number of Shells 34

Length of Shells 4-1/4" x 10'-6"

Top of Shot 3093

Bottom of Shot 3436

Top of Brown Shale Sand 3093 feet
(Name of Sand)

Bottom of White Slate Sand 3436 feet
(Name of Sand)

Total Depth of Well 34398

Results: before shot 0/10 W-1"
After shot 4/10 W-1" (21.06 MCF)

Remarks: 20 hours test

Signed *A. E. Gibson* District Supt.

NOTE-When a well is shot this form must be filled out and sent to the General Superintendent.

11/17/2023

**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:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
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:

<u>Contract Date (Mo. Day Yr.)</u>	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

1.0 API well number. (If not assigned, leave blank 14 digits.)	<u>47-099-00626-</u>			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	<u>107 DU</u> Section of NGPA		<u>—</u> Category Code	
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)	<u>3439</u> feet			
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	<u>Columbia Gas Transmission Corporation</u> Name		<u>004030</u> Seller Code	
	<u>P. O. Box 1273</u> Street			
	<u>Charleston</u> City	<u>WV</u> State	<u>25325</u> Zip Code	
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	<u>WU Field Area B</u> Field Name			
	<u>Wayne</u> County		<u>WV</u> State	
(b) For OCS wells	<u>NA</u> Area Name		Block Number	
	Date of Lease _____ Mo. Day Yr.		OCS Lease Number	
(c) Name and identification number of this well (35 letters and digits maximum.)	<u>TCO Min. Tr. No. 1 806439</u>			
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.)	<u>NA</u>			
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	*		<u>004030</u> Buyer Code	
(b) Date of the contract:	_____ * Mo. Day Yr.			
(c) Estimated total annual production from the well	<u>2</u> Million Cubic Feet			
		(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)
7.0 Contract price (As of filing date. Complete to 3 decimal places)	S/MMBTU	---	---	---
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>Deseg</u>	---	---
9.0 Person responsible for this application:	<u>Albert H. Mathena, Jr., Director, Production Eng.</u> Name Title			
Agency Use Only Date Received by Juris. Agency <u>JUN 3 - 1982</u> Date Received by FERC	<u>Albert H. Mathena</u> Signature		<u>(304) 346-0951</u> Phone Number	
	<u>5-20-82</u> Date Application is Completed			

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

11/17/2023

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. 806439

API Well No.
47 - 099 - 00626
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 1060.36'
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: 9-6-1948

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.

11/17/2023

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.

(NOTARIAL SEAL)

Larry G. Burdette
Notary Public

[Handwritten signature]

JUN 3 - 1983

11/17/2023

COLUMBIA GAS TRANSMISSION CORPORATION

WELL NO. 306439

SUPPLEMENT:

METHOD OF CALCULATION OF BOTTOM HOLE PRESSURE

$$PBH = PWH + PWH (E**0.0000347*G*L - 1.)$$

WHERE:

- PBH = BOTTOM HOLE PRESSURE (PSIA)
- PWH = WELLHEAD PRESSURE (PSIA) = 244.7
- G = SPECIFIC GRAVITY OF GAS = 0.7170
- L = DEPTH TO MIDDLE OF PERFORATIONS (FT.) = 3264

STEPS:

- PBH = 244.7 + 244.7 (E**0.0000347*2340.288 -1.)
- PBH = 244.7 + 244.7 (E**0.031208 -1.)
- PBH = 244.7 + 244.7 (1.08460 -1.)
- PBH = 244.7 + 244.7 (0.085)
- PBH = 244.7 + 20.7
- PBH = 265.4 (PSIA)

11/17/2023



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 CLASSI-)	
FICATION UNDER SECTION 107 OF THE)	CAUSE NO. 33
NATURAL GAS POLICY ACT OF CERTAIN)	
WELLS IN BOONE, CABELL, JACKSON,)	ORDER NO. 1
KANAWHA, LINCOLN, LOGAN, MINGO)	
AND WAYNE COUNTIES, WEST VIRGINIA.)	

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

11/17/2023