

## STATE OF WEST VIRGINIA

# DEPARTMENT OF MINES OIL AND GAS DIVISION

## NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

None	UNITED FUEL GAS CO.	
COAL OPERATOR OR COAL OWNER	% G. H. Moore	05 11
ADDRESS	P. O. Box 1273, Charlesto	n 25. W.
	October 13,	10/9
COAL OPERATOR OR COAL OWNER	PROPOSED LOCATION	, 19 40
	Lincoln	
ADDRESS	Dinoth	Distri
UNITED FUEL GAS CO.	Wayne	Count
% G. H. Moore Po. Box 1273	380 00'	
% G. H. Moore P.O. Box 1273 Charleston 25, W. Va.	Well No. 6421 83° 20	
ADDRESS	UNITED FUEL GAS CO. Mineral	F
ENTLEMEN:		Fari
The undersigned well operator is entitled to	drill upon the above named farm or trac	t of land fo
l and gas, having fee title thereto, (or as the car	se may be) under grant or lease dated	
February 15, 1926 , mac	debyRay Coffman et ux	
The Old Colony O. & G. Co.	and recorded	28th ,
August 1926	in the offer of the Country of the	da
pok 148 , page 87	, in the office of the County Clerk for sai	id County i
The enclosed plat was prepared by a competer be drilled for oil and gas by the undersigned well ad County above named, determined by survey an ind marks.  The undersigned well operator is informed an coal beneath said farm or tract of land on which ies of the same, who have mapped their working	d believes there are no coal operators operated well is located, or within 500 feet of	erial Distric ent points, or perating beds
nd County above named, determined by survey an marks.  The undersigned well operator is information.	d courses and distances from two permane described courses and distances from two permane described by the control of the courses and filed their maps as required by law, as addressees.  If (if any) are notified that any objection hey are required to make by Section 3 of sause a dangerous condition in or about the artment of Mines within ten* days from the Department. Said coal operators are furner furnished to them by the Department of Mines within ten to the course of the cou	perial District of the points, of the bound excepting the said Code, if the receipt of the receipt of the notified nes promptly
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JARRETT PRINTING COMPANY, CHARLESTON, W. VA.

WAY-623 PERMIT NUMBER

Ocotber 25, 1948

United Fuel Gas Company o/o G. E. Moore Box 1273 Cherleston, West Virginia

Gentlemen:

Enclosed is permit WAY- 628 to drill Well No. 6421 on the United Fuel Gas Company Farm, Lincoln District, Wayne County.

Very truly yours,

Administrative Assistant OIL AND GAS DIVISION

CNH:K

CC: Inspector D. E. Lawson

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
Oray, shale hrown bhale cary shake brown shale whave Shace losse best			2401 2003 44 2000 44 2000	2000 1000 1000 1000 1000 1000 1000	OPEN FLOW	- 163 M - Bi, 321 M - Sha	g Lime
Julian Solo Slave & Sho brown Suske Derea tand trown Susle	TYS		1 1502 2015 2027 2157 2157	212 212 212 212 212 212	48 Hr. R.P. 48 Hr. R.P.	305# Big Li 440# Shale	D)IOR
PLEASE TIME			1870 1273 1273 1400	1655 1750 7546 17542	Shut in 4-2	9-49 in 3" 1	TO TO TO TO THE LOCAL CONTROL OF THE LOCAL CONTROL
tod kodk .			265 7 695 603 7 603 7 1040	1516 1170 1000 202 200			
olice *** One out in the sole out of the out of the	Te v		16.66 B 30	163 163 642 642 363	eacer.	239:	Hole full
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Maria district	. 00. 101 E.ab Fo. 21	TOT THE TANK	1140 V. ·			and the second	HOOKASTY
Fermil Ma femilians and a common and a	-029 United Tu	Anizia on		Tables, Commission of the Comm	1942((148 -5,000) 40	11/	17/2023
N. A.			DELVISOR	MARCHANIA MARCHANIA MARCHANIA	Date	May 31,	, 19 49

By Chief Engineer (Title)



Haugatuck

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

## WELL RECORD

Permit No. WAY-623

Oil or Gas Well Gas

Permit No. WAL	-02)					On or C	(KIND)
Address P. O.	Box 1273	el Gas Compar Charleston	25, W. Va.	Casing and Tubing	Used in Drilling	Left in Well	Packers
Location (waters) Well No. 62	East For	. Well # 2 rk of Twelve	Pole Cr.	Size 16			Kind of Packer Hookwall
	act is owned in	CountyWa;		10	2811	281'	Size of
Mineral rights are	e owned by	Address United Fuel	Gas Co.	65%	12881	12881	Depth set 1447 *
P. O. Box 1273, Address Chas. 25, W. Va.  Drilling commenced 2-23-49  Drilling completed 4-23-49				3 Tubing		1456	Perf. top Perf. bottom
Date Shot 4-26-49 From 2180 To 2970  With 5200# Gel				Liners Used			Perf. top Perf. bottom
Open Flow 5	8/10ths Water 1/10ths Merc.	in 2" in me, 321 M -	Inch	CASING CEMI	ENTED	SIZE	No. Ft. Date
Rock Pressure 3	05 & 440	lbs. 48	hrs. _bbls., 1st 24 hrs.	COAL WAS E	NCOUNTERED		FEET 36 INCHES
Fresh water		feet	feet				
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	

	OI Water Louis
Blue Slate 18 26	26 32 35
Coal       32       35       75       136       138       182       138       182       212       285       138       182       212       285       318       385       318       385	38 82 12 85 18 85 18 85 95 95 85 995 85 995 865 996 996 997 998 998 998 998 998 998 998 998 998
White Slate Total Depth  2963 2970 Depthom	1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2

ORM U 97-P, G . D

Red Rook

890

895

5

SERIAL WELL NO. 6421 LEASE NO. 35723 MAP SQUARE 18-20-35 CASING AND TUBING RECORD OF WELL NO. 6421 on the TEST BEFORE SHOT BITE WEIGHT DHILLING U.F. G. CO. MIN. TR. #2 farm of 6473 Acres 2 /10 of Water in \_\_\_\_ in LINCOLN District 100 281-9 32.75# 281-9 /10 of Merc, in----in 6-5/84 WAYNE 20# 1314-0 1314-0 County Volume \_\_\_ ] H\_QO - HOF Cu. WEST VIRGINIA 5-3/164 State of: 14# 1570-4 TEST AFTER SHOT None Field: BRANCHLAND NO. 8 30 1456-10 1456-10 58 /10 of Water in \_\_ 2 \_\_\_ in 9.20# Rig Commenced FEBRUARY 17 194 9 /10 of Merc. in....in Rig Completed FEBRUARY 23 194 9 Volume 321 HCF Cu. Drilling Commenced FEBRUARY 23 194 9 Hours After Sh Drilling Completed APRIL 23 194 9 Rock Pressure Sha- 440# \$2.75 & 2.90 per foot Date Shot April 26, 1945 Drilling to cost Contractor is: Size of Torpedo 5200 Gol E. C. WARE Address: SHUT IN BEAUTY . KENTUCKY Oil Flowed ..... bbls. 1st 24 hr Date APRIL 294 194 9 Oil Pumped .... bbls. 1st 24 hr Tubing or Driller's Name ROBERT PETRIE 3 ....in. PAUL KINGBLEY Size of Packer 30X6-5/80X160 Well abandoned and Kind of Packer Hookwall Plugged ..... 194... 1st. Perf. Set\_1443 from 1455 .... ..... 861.93 Elevation: 2nd Perf. Set ....from. DRILLER'S RECORD FORMATION THICKNESS BOTTOM REMARKS Surface 0 18 18 Blue Slate 18 26 8 Sand 26 32 6 Coal 32 35 3 RECEIVED Sand 35 40 75 Slate 75 138 63 MAY 16 1949 Sand 138 182 44 DIVISION SUPT. Slate 182 212 30 Sand 212 285 73 Slate & Shells 285 318 33 Sand 318 385 67 Hole full water at 335 Slate & Shells 385 695 310 Salt Sand 90 695 785 APPROVED Slate 785 798 13 Salt Sand 885 798 87 Black Slate 885 890 5

X

DRILLER'S	RECORD
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		DRILL	ER'S RECORD	
<b>РОПИМИТОН</b>	TOP	BOTTOM	THICKNESS	REMARKS
Slate & Shells	969895	965	70	REDUCED HOLE AT 900
Sand	965	1040	75	6-5/8W CASING AT 1288*
Slate & Shells	1040	1150	110	5-3/16" CASING POINT 1545" - RUN & PULLER
Sand	1150	1210	60	
Slate	1210	1255	45	
Little Lime	1255	1275	20	
Pencil Cave	1275	1278	3	
Big Lime	1278	1460	182	
Injun Sand	1460	1522	62	
Slate & Shells	1522	2015	493	
Brown Shale	2015	2035	20	The second secon
Berea Sand	2035	2157	122	SHOW OF GAS AT 2055
Brown Shale	2157	2225	68	EMAIL SHOW OF OIL AT 2055*
Gray Shale	2225	51158	203	GAS 1380 to 1395- 88/10 WATER IN 2W
Brown Shale	57158	2600	172	BLEW DOWN TO 18/10 WATER IN 2W
Gray Shale	2600	2660	60	
Brown Shale	2660	2963	303	SHOW OF GAS AT 2740 + 4/10 WATER IN 2W
White Slate	2963	2970	7	WHEN DRILLING COMPLETED 4/10 W#-2" ( 4 H
Total Depth	2970			
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			***************************************	11-86:01
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Devonian Shale - 2157' to 2970' Total Shale - 813'

no sand logged no electric log Mary J. Friend Geologist

11/17/2023

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	April 26 19 49	
. J. R. Hussey,	Div. Supt.	Marie Line
	on WereGeco. Min. Tr. #2 Farm	
	5200# Gelatin quarts	
	78 Shells	
	###XJOP.	
op of Shot	2180*	
Bottom of Shot	29701	
Top. of	Brown Shale Sand 2180* feet	
Bottom of	Brown Shale Sand 2970 feet (Name of Sand)	
Total Depth of Well	2970•	
Results:	before shot- 2/10 W-lm (14.90 MCF)	
	efter shot- 58/10 W-2" (321 MOF)	
Remarks:		7
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NOTE-When a well is shot this form must be filled out and sent to the General Superintendent.

## 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 New onshore well (1,000 feet deeper test) 3 102 4 New onshore reservoir 102 5 New reservoir on old OCS Lease 103 New onshore production well

# 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

1.0 API well number. (If not assigned, leave blank 14 digits.)	47-099-00623-	
Type of determination being sought     (Use the codes found on the front of this form.)	Section of NGPA Category Code	
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)	2970 feet	
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)		004030 Seller Code
5.0 Location of this well. (Complete (a) or (b).) (a) For onshore wells. (35 letters maximum for field name.)	WU Field Area B Field Name Wayne County	WU State
(b) For OCS wells	Date of Lease	Number
(c) Name and identification number of this wel! (35 letters and digits maximum.)	TCO Min. Tx. No. 2 806	
(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	004030
(b) Date of the contract:	Mo. Day Yr.	
(c) Estimated total annual production from the well	9M	illion Cubic Feet
	(a) Base Price (b) Tax (c) All Oth Prices [Ind (+) or (-).	dicate (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	S/MMBTU	
8.0 Maximum lawfu! rate (As of filing date. Complete to 3 decimal places.)	S'MMBTU Dexeg	
9.0 Person responsible for this application:  Agency Use Only  Date Received by This Agency  Date Received by FERC  *This is a pipeline production	Albert H. Mathena, Jr., Director, P.  Name  About H. Mathena  Signature  5-20-82  Date Application is Completed  Well. No contract exists and no sale	0951 umber

Date 5-20-82

DEPARTMENT OF MINES OT), AND GAS DIVISION Operator's Well No. 80642/

API Well No.

47 - 099 - 00623 State County Permit

# WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONTAN SHALE

NGPA Sect	ion 107
	DESTGNATED AGENT James L. Weekley
	ADDRESS P. O. Box 1273
	Charleston, WV 25325
	LOCATION Elevation 861.93
WELL OPERATOR Columbia Gas Trans. Corp.	Watershed
ADDRESS P. O. Box 1273	Dist. Lincoln County Wayne Quad.
Charleston, WV 25325	Gas Purchase Contract No. N.A.
GAS PURCHASER N.A.	Meter Chart Code
ADDRESS	State of the state
This is a nipeline production well and no da	Date of Contract N.A.
This is a pipeline production well and no ga	
Date surface drilling began: $2-23-$	1949
Indicate the bottom hole pressure of the w	ell and explain how this was calculated.
See Supplement	
See Supplement	
AFF	IDAVIT
10-PA BOARD SEE	
described in subparagraph (3)(1) or (3)(11 report described in subparagraph (3)(11)(B of potentially disqualifying non-shale foo percent of the gross Devonian age interval	e of the producing interval which is not index of less than 0.7 if a Gamma Ray log )(A) has been filed, or as indicated by the ); I have demonstrated that the percentage tage is equal to or less than five (5); and I have no knowledge of any informatio inconsistent with a conclusion that the well
	achord 41 mathenal
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. Mathe	na, dr. , whose name is signed to
the writing above, bearing date the 20	day of May , 1982, has
acknowledged the same before me, in my cou	nty aforesaid. 11/17/2023
Given under my hand and official seal this	20 day of May, 1982.
My term of cifice expires on the 13 day	of August 1989
	Les Uld Dotte.
(NOTARIAL SEAL)	Notary Public

FORM .IV-48WC [12-78]

## STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date	5	- 6	20	)	1982
•					

Operator's 806421

No. 47 - 099 - OC State - County Per

## STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. (If Applicable)

Calumbia Can Turan Ca	
WELL OPERATOR Columbia Gas Trans. Corp.	DESIGNATED AGENT James L. Weekley
ADDRESS P. O. Box 1273	ADDRESS P. O. Box 1273
Charleston, WV 25325	Charleston, WV 25325
Gas Purchase Contract No. NA* and	Date (Month, day and year)
Meter Chart Code	(Monten, day and year)
Name of First Purchaser NA*	
(Street or	P. O. Box)
(Clty) (St	cate) (Zip Code)
FERC Seller Code NA*	FERC Buyer Code NA*
TYPE OF DETERMINATION BEING SOUGHT:	
(1) Initial determination (See FERC Form 121. (2) Determination that increased production recovery technology.	and the same of th
(3) Determination of a seasonally affected we	
	Name (Print) Name (Print) Nathena t
*This well is a pipeline production and no gas purchase contract exists.	Signature
and no gas purchase contract exists.	P. O. Box 1273 Street or P. O. Box
	Charleston WV 25325
	City State (Zip Code)
	Area Code Phone Number
(Certificate of Proof of Service to Purchaser)	
A copy of this filing is being retained owner and operator of the identified wel	by Columbia Gas Transmission Corporation, 1.
(All of the above to be completed by the Operator/	'Applicant)
(To be completed by Jurisdictional Agency. Execut purchaser, if known).	ed copy to be returned to Operator/Applicant and
well as meeting the requirements of Section (NGPA): or for determination that increased pr	d a request, for certification of the above described under the Natural Gas Policy Act of 1978, roduction is the result of enhanced recovery technology tion of a seasonally affected well under Section 108 of (NGPA)
All interested parties are hereby notifithe office of the Oil and Gas Division in Charlest be heard there will be a public hearing, if reques	ed that on the day of , 19 , at on, West Virginia, or as soon thereafter as it may ted, or if objection is filed.
This Application is assigned File No.	•
Initial review of information submitted entitled to certification as claimed under the Nat and any additional evidence will be made at the tias the matter may be heard.	indicates the well is is not cural Gas Policy Act (NGPA). A review of this evidence me appointed for a public hearing or as soon thereafter
Unless objections are timely filed or a days, a hearing will not be held except on ex part go to determination.	request for a hearing is made within fifteen (15) emotion of the department and the matter will
	WEST VIRGINIA DEPARTMENT OF MINES
	Best of
JUN 3 - 198 <b>3</b>	Director
	Ву
Date received by Jurisdictional Agency	Title11/17/2023

COLUMBIA GAS TRANSMISSION CORPORATION

WELL NO. 806421

SUPPLEMENT:

METHOD OF CALCULATION OF BOTTOM HOLE PRESSURE
PBH = PWH + PWH ( E\*\*0.000347\*6\*L - 1.)

WHERE:

PBH = BOTTOM HOLE PRESSURE (PSIA)

PWH = WELLHEAD PRESSURE (PSIA)

G = SPECIFIC GRAVITY OF GAS

= 454.7

= DEPTH TO MIDDLE OF PERFORATIONS (FT.) = 2575

STEPS:

PBH = 454.7 + 454.7 (E\*\*0.0000347\*1846.275 -1.)

PBH = 454.7 + 454.7 (E\*\*0.064066 -1.)

PBH = 454.7 + 454.7 ( 1.06616 -1.)

PBH = 454.7 + 454.7 (

30.1

4 24.7 +

PBH =

0.066)

PBH = 484.8 (PSIA)



## 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 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.
- ll. 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, Administrato