

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

Charleston, W. Va.			
None	Unite	d Fuel Gas Co	
COAL OPERATOR OR COAL OWNER	c/o G. H. Mo		OF IN Wa
ADDRESS		3, Charleston	25, W. Va.
	Janua	- 7	1.0
COAL OPERATOR OR COAL OWNER		ry 7	, 1947
		Union	Distin
ADDRESS		Olifon	District
Edith Booten		Wayne	County
OWNER OF MINERAL RIGHTS	(105	38.10	
Route #1, Lavalette, W. Va.	Well No. 6495	81.21	
ADDRESS	El	la Carson	Farm
GENTLEMEN:			raim
The undersigned well operator is entitled to de	rill upon the above na	amed farm or trac	t of land for
oil and gas, having fee title thereto, (or as the case i			
February 15, 1936 , made b			
United Fuel Gas Company			
of March, 1936 ,ir	the office of the Co	unty Clerk for sa	id County in
Book 21 , page 409 . The enclosed plat was prepared by a competent			
to be drilled for oil and gas by the undersigned well of and County above named, determined by survey and all land marks. The undersigned well operator is informed and of coal beneath said farm or tract of land on which sa aries of the same, who have mapped their workings a coal operators or coal owners (if any) above named as	perator on the farm courses and distances believes there are no aid well is located, or and filed their maps as	and in the Magis from two permand coal operators of within 500 feet of	terial District ent points, or perating beds
The above named coal operators or coal owners (if desire to make to such proposed location, or which they the drilling of a well at said proposed location will cause coal mines, must be received by, or filed with the Depart a copy of this notice and accompanying plat by said D that forms for use in making such objections will be from request and that all such objections must set forth as grounds on which such objections are based and indicate the moved to overcome same.	if any) are notified y are required to make se a dangerous conditionent of Mines within department. Said coal furnished to them by the definitely as is reas	e by Section 3 of ion in or about th ten* days from to operators are fu to Department of M sonably possible the	said Code, if heir respective the receipt of orther notified lines promptly
(The next paragraph is to be completed only			
Copies of this notice and the enclosed plat were named coal operators or coal owners at their above shor on the same day with the mailing or delivery of West Virginia.	nown respective addres	s	day before.
Very tr	ruly yours,		
115672	United	d Fuel Gas Co.	
23450/89	V	VELL OPERATOR	
Allen)	c/o	G. H. Moore	
Address of Well Operator		73, Charleston	1 71 7/2023
1905	We	est Virginia	•
*Section 37. If no such objections be filed or be it ten days from the receipt of said notice and plat by the depe ment shall forthwith issue to the well operator a drilling pe have been made by the coal operators to the location, or a approved and the well operator authorized to proceed to dr	ermit reciting the filing found thereto by the d	at of mines, within aid proposed location	n, the depart-

JARRETT PRINTING COMPANY, CHARLESTON, W. VA.

WAY-645

PERMIT NUMBER

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
Coffee Shal Break Sand Sl. & Shs. Gray Shale Br. Shale White Slate Br. Shale Total Depth	3		21.55 21.75 2200 2660 2820 31.64 33.75	2175 2200 2660 2820 3164 3375 3429	Gas Shale Gas Not enough Shot 3-15-1 2508-3439	2660' 3040' gas to test 9 with 9000#	Show 4/10 W 1" 21 before shot. EP 118 from
MEMORY SAND			1737) 1730 1730	ISTO TOTO	Test after	shot 13/10 W	2" 152 M.
+profiles			DISC	000000 000000	OPEN FLOW -	152 M - Sha	le
Chape Said Whate Wall send			670 750 790 960	1700 2000 1300 1300	48 Hr. R.P.	360# Tubin 200# Casin	g note mitte
STATE OF THE PERSON OF T	O and		600 600 670	983 990 9004		6-49 in 2" I	
property and a			465 465	103 103	1000 St. 10	505	2 P. F. J.
Fire Clark			120	200 200 200			
blees blees dand			200 F80 F80 F80	539 300 700 796			140 C. 15.
May Jane			30	130			
· Marmation	Com	i pola Sivix of	200	· popular	OF THE	Sept. 1	
Out while property of 1000,	., 523 10,18, 15	0	Libra , Ink ne ney foe fee	1000 AND	Edge Lycan	Marian MA	
Contract 1	A - Shall	300 02.	AR TON	Service Charges	A4, 223	EST NO A	
240, 860 2 -15	-1.9	3208	, pass, in	As others a service		- 100	
Maria Santa de La Companya de La Com	Tagara Tagara	And Learning	200, a. Td.	Same of the same o		STOT FE	
				10 mm - 1/3	10.55 24	1000 1000 200	SUSP STEED STON
Variable Assessed	Toopen Toopen	e. Trill	25.95 035.95	7.0 mm. mm. mm. mm. mm. mm. mm. mm. mm. m		1	ologili .
Antonia and a second	Mary 1273,	N. Georgia Co.	5. 16. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	Capatal Sand	CHINE APPEN	No.	Perker
Marine Marine	-01.5		AMETT	RECORD		11/1	7/2023

APPROVED United Fuel Gas Co.

By Chief Engineer (Title)



Luyandot

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL RECORD

Permit No. WAY-645

Oil or Gas Well Gas (KIND)

Permit No. WAI-045				(KIND)			
Company United Fuel Gas Co. Address P. O. Box 1273, Charleston 25, W. Va.	Casing and Tubing	Used in Drilling	Left in Well	Packers			
Farm Ella Carson Acres 48 Location (waters) Booten Br. of Miller Fk. Well No. 6495 Elev. 635.95	Size			Kind of Packer			
District Union County Wayne The surface of tract is owned in fee by	_ 10	38	38	Size of 2"X6-5/8" X 16"			
Address Mineral rights are owned by Edith Booten	8½ 8-5/8 6%	5 <u>1</u> 4 1655	1655	Depth set 2236			
Route 1. Address Lavalette, W. Va Drilling commenced 1-14-49	5 3/16 _ 3 2 Tubing		3431	Perf. top Perf. bottom			
Drilling completed 3-5-49 Date Shot 3-15-49 From 2508 To 3439 With 9000 # EP 118	Liners Used			Perf. top Perf. bottom			
Open Flow 13/10ths Water in 2" Inch /10ths Merc. in Inch Lasing CEMENTED SIZE No. Ft. Date Values 152 M - Shale Cu. Ft.							
Rock Pressure 360 Tubing, 200 _{lbs} . 48 h Oil bbls., 1st 24 h Fresh water 512, 525 feet feet	rs. FEE	ENCOUNTEREI	CHES	FEET INCHES FEET INCHES			
Salt water 1050, 1638, 1650 feet feet	etFEF	Oil. Gas	Depth	FEET INCHES Remarks			
Formation Color Soft Top	Bottom	or Water	Found				

Salt water 1050, 1638, 1650 feet		feetFEET_		INCHESFEE		TINCHES	
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	38			
Slate			38	120			
Sand		alest .	120	155			
Slate			155	180			
Sand			180	200			
Slate			200	235			
Red Rock	1		235	245			
Fire Clay			245	250			
Red Mud		A STATE OF THE STA	250	260			
Slate			260	295			
Sand			295	300			
Slate			300	465		77.01	2 7 7 11
Sand			465	512	Water	512'	3 B. P. H. 1 B. P. H.
Slate			512	570	Water	5251	T B. F. H.
Sand			570	600			
Slate			600	620		- 5 to Su T	BERT .
Sand			620	670			
Slate			670	750 790			
Sand			750	960		20001	Hole Full
Slate			790 960	1100	Water ·	1050'	HOTE LATT
Salt Sand			1100	1126		Lancine I	
Shells	201000000000000000000000000000000000000		1126	1260		2 72 30 - 37 4	
Maxon Sand			1260	1310			
Sl. & Shs.			1310	1315	/	1	The state of the s
Red Rock Sl. & Shs.			1315	1344			The second second
Little Lime			1344	1365			- 1 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	237	131415165	1365	1540	200		1
Big Lime Keener Sand	" TON"	10/2	1540	1572	200	1/	
Slate	0	NY 1949 6	1572	1610		1/	
Injun Sand	100 M	Ay 1900	1610	1635		11/1	7/2023
Slate	To WE	I Alleman	1635	1638	Water	1638-16501	
Water Sand	IS DEPART	WILL OR MUNETO S	1638	1650			1
Slate	100 A 56 78 B	200	1650	1652	629	1 3000.	13000
Lime	6	100 m	1652	1673			
Slate	1/1/20	100000 17963	1673	2075			
Lime Shell	9	6068050	2075	2100			
Slate	T of the	Self.	2100	2155		Found	Marco des
		STEEL ST.				1180118	

UNITED FUEL GAS COMPANY

MM 11 07-P G . D

564.97

Elevation:

LEASE NO. 40473 ERIAL WELL NO .. MAP SQUARE_ 6495 CASING AND TUBING TEST BEFORE SHOT on the RECORD OF WELL NO. SIZE WEIGHT WELL IN farm of 48 Acres /10 of Water in _____incl Ella Carson Union District 1.04 38 + ON /10 of Merc, inincl 32.75# 38 104 Volume _____Cu. ft County 8-5/811 25.55# 514 1211 514 1211 Wayne 6-5/84 20# 1673171 1673171 TEST AFTER SHOT State of: West Virginia 14# 3431.64 3431.64 211 12 /10 of Water in 2 Field: Branchland incl Jenuary 7 Rig Commenced 194 /10 of Merc. in....incl 152 MCF January 14 194 9 Volume Cu. ft Rig Completed Drilling Commenced & Tanuary 14194 9 Hours After Sho Rock Pressure Cosing 360/ Drilling Completed March 5 194 9 #2.75 Date Shot 3-15-49_ Drilling to cost per foot 9000# Contractor is: E. L. Lusher Size of Torpedo .. SHUT IN Address: Ceredo, W. Va. Oil Flowed bbls. 1st 24 hr: Date 3-26-49 Oil Pumped bbls. 1st 24 hr: 2 in. Driller's Name E. L. Lusher Size of Packer 20X6-5/80X160 We Co Mille Well abandoned and

Kind of Packer Hcokwall

2nd Perf. Setfrom_

1st. Perf. Set 3417 from 3439

DRILLER'S RECORD				
PORMATION	TOP	моттом	THICKNESS	REMARKS
Surface	0	38	38	
Slate	38	120	82	
Sand	150	155	35	
Slate	155	180	25	
Sand	180	200	50	
Slate	200	235	35	
Red Rock	235	245	10	
Fire Clay	21,5	250	5	
Red Mud	250	260	10	
Slate	260	295	35	
Sand	295	300	5	
Slate	300	465	165	The state of the s
Sand	465	512	47	Water at 512:- 3 bailers per hour
Slate	512	570	58	Water at 5251- 1 builer per hour
Sand	570	600	30	ADOPOVED
Slate	600	620	20	Hagiasa.
Sand	620	670	50	waterproduction and the state of the state o

Plugged -----194---

FORMATION	TOP	воттом	THICKNESS	REMARKS
Slate	670	750	80	
Sand	750	790	40	
Slate	790	960	170	
Salt Sand	960	1100	11,0	Hole full water at 1050
Shells	1100	1126	26	
Maxon Sand	1136	2260	134	The second secon
Slate & Shells	1260	1310	50	
Red Rock	1310	1315	5	
Slate & Shells	1315	13/4	29	
Little Lime	1344	1365	51	
Big Lime	1365	1540	175	
Keener ?Sand	1540	1572	32	
Slate	1572	1610	38	
Injun Sand	1610	1635	25	,
Slate	1635	1638	3	Water at 1638 to 1650
Water Sand	1638	1650	15	The second section of the sect
Slate	1650	1652	2	
Lime Shell	1652	1673	51	
Slate	1673	2075	402	
Lime Shell	2075	2100	25	
Slate	2100	2155	55	
Coffee Shale	2155	2175	20	
Break Sand Berece	2175	2200	25	
Slate & Shells	5500	2660	460	
Gray Shale	2660	2820	160	Show of gas at 2660
M Brown Shale	2820	3164	344	show of gos at 3040:- 4/10 W_1"
White Slate	3164	3375	211	Show of gas at 3090
Brown Shale	3375	3429	54	Annual
				Pattern Com
Total Depth	3429			
				APK 1949
				DIVISION TOPT.
			STATE OF THE PROPERTY OF THE P	
		-		A literature and the second of
				APPROVED
				It led to be to the second

Devonian Shale - 2200' to 3429'
Total Shale - 1229'
no sand logged
Mary S. Friend
Shologost
no electrice log

11/17/2023



ren 15, 1949 19

Mr. J. R. Hussey, Div. Su	
Vell No. 6495 (Serial No.) on_	Ella Cerson Farm
Vas shot this date with 9000# E	P 1.18 quarts
lumber of Shells	
ength of Shells 54	
Top of Shot 2508 v	we will be a series of the ser
Bottom of Shot 34391	
Top of Cray Shele	Sand 25081 feet
	Sand 3439 feet
Total Depth of Well 34391	
Results: before shot- 0/	10 M-T18
after shot- 12/1	10 W-2" (152 MCF)
Remarks:	RECEIVED
	1010
	DIVISION SUPT.

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 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 100 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 Purchaser **Buyer Code** (Mo. Day Yr.) Remarks:

FT7900806/1-2

1.0 API weii number (If not assigned, leave blank 14 digits.) 47-099-00645-2.0 Type of determination being sought (Use the codes found on the front 107 DV of this form. Section of NGPA Category Code 3.0 Depth of the deepest completion location (Only needed if sections 103 3429 1eet or 107 in 2.0 above.1 4.0 Name, address and code number of applicant (35 letters per line maximum If code number not Columbia Gas Transmission Corporation 004030 Name P. 0. Box 1273 Seller Code available, leave blank.) Street Charleston WV 25325 State Zip Code 5.0 Location of this well [Complete (a) WU Field Area or (b).] (a) For onshore wells (35 letters maximum for field (b) For OCS wells Area Name Block Number Date of Lease Day OCS Lease Number Mo (c) Name and identification number 135 letters and digits of this wel! Ella Carson 806495 maximum.) (d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.) 6.0 (a) Name and code number of the purchaser (35 letters and digits maximum If code number not 004030 available, leave blank, Name Buyer Code (b) Date of the contract Day Mo. (c) Estimated total annual production from the well Million Cubic Feet (c) All Other (a) Base Price (b) Tax (d) Total of (a). Prices (Indicate (b) and (c) (+) or (-).] 7.0 Contract price (As of filing date. Complete to 3 S/MMBTU decimal places) 8.0 Maximum lawfu! rate (As of filing date. Complete to 3 decimal places.) S'MMBTU Dereg 9.0 Person responsible for this application Albert H. Mathena, Jr., Director, Production Eng. Agency Use Only Name JUN 3 - 1983 Date Received by FERC (304) 346-0951

Date Application is Completed

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

Phone Number

STATE OF WEST VIRGINIA

Date 5-20-82

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's 806495

API Well No.

47 - 099 - 00645 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONTAN SHALE

NGPA Sec	L1on 107
	DESTGNATED AGENT James L. Weekley
	ADDRESS P. O. Box 1273
	Charleston, WV 25325
www. opposition Columbia Cas Trans. Com	LOCATION Elevation 632, 83'
WELL OPERATOR Columbia Gas Trans. Corp.	Watershed County War a Ound
ADDRESS P. O. Box 1273 Charleston, MV 25325	Dist. Union County Wayne Quad. Cas Purchase
Charleston, WV 25325 GAS PURCHASER N.A.	Contract No. N.A.
ADDRESS	Meter Chart Code
	Date of Contract N.A.
This is a pipeline production well and no (jas pyrchasę contract exists.
Date surface drilling began: /-/4-/	949
Indicate the bottom hole pressure of the	well and explain how this was calculated.
See Supplement	
ΔF	FIDAVIT
Thave calculated the percentage of foota Devonian Shale as indicated by a Gamma Ra described in subparagraph (3)(i) or (3)(i report described in subparagraph (3)(ii)(of potentially disqualifying non-shale for percent of the gross Devonian age interval	1; and I have no knowledge of any information inconsistent with a conclusion that the well
STATE OF WEST VIRGINIA	
COUNTY OF KANAWHA , TO-WIT:	
1, Larry G. Burdette , a Notar	y Public in and for the state and county
Albert H. Mati	ena, dr. whose name is signed to
the writing above, bearing date the 20 acknowledged the same before me, in my co	day of //ay , 19 82, has 11/17/2023
Given under my hand and official seal thi	18 20 day of 1/ay, 1982.
My term of office expires on the 13 d	iy of August 7, 1989
(NOTARIAL SEAL)	Jarry J Burdelle



way - 645

State of West Virginia Department of Mines Oil and Gas Sinision Charleston 25385

THEODORE M. STREIT

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.

DIRE. TOR

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

- l. 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

- l. 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: Theodoro M. Stroit Advision

Theodore M. Streit, Administrator