



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.

Oral Richardson

COAL OPERATOR OR COAL OWNER

Wayne, W. Va. - c/o Mat Richardson

ADDRESS

COAL OPERATOR OR COAL OWNER

Owens-Illinois Glass Company and
Libbey-Owens-Ford Glass Company

OWNER OF MINERAL RIGHTS

Charleston 4, W. Va.

ADDRESS

OWENS, LIBBEY-OWENS GAS DEPARTMENT

NAME OF WELL OPERATOR

P. O. Box 4168, Charleston 4, W. Va.

COMPLETE ADDRESS

March 30, 19 60

PROPOSED LOCATION

Stonewall District

Wayne County

Well No. 56 (Serial No. 1094) ^{38° 10'} 82° 20' E. 847.90

Hoard-Baldwin Tract No. 2 Farm

175 acres

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 & T. B. Jackson, Sq. Comm. Owens-Illinois Glass Co. & Libbey-Owens-Ford Glass Co., and recorded on the 23rd day of December, 1936, in the office of the County Clerk for said County in Book 188, page 133.

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 4168

STREET

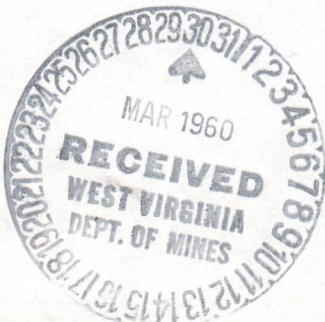
Charleston 4,

CITY OR TOWN

West Virginia

STATE

08/25/2023



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.

1273

WAY-1273 PERMIT NUMBER



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.

W. W. W. Val.

OWENS, LIBBEY-OWENS GAS TREATMENT

NAME OF WELL OPERATOR

NAME OF WELL OPERATOR

P. O. Box 4168, Charleston, W. Va.

Wayne W. Val. - c/o Met Richardson

ADDRESS

ADDRESS

March 30, 1930

DATE OF LOCATION OF WELL

PROPOSED LOCATION

PROPOSED LOCATION

Charleston

Owens-Libbey Gas Company and
Libbey-Owens-Ford Glass Company

County

NAME OF MINERAL RIGHTS

Well No. 58 (Serial No. 1084) 82.50 E 84.90

Charleston, W. Va.

Howe-Baldwin Tract No. 2 Farm

ADDRESS

The undersigned well operator is notified to drill upon the above named farm or tract of land for

oil and gas having for title (Serial No. 1084) 82.50 E 84.90

made by H. Emanuel Anderson & T. B. Jackson to

Owens-Libbey Glass Co. & Libbey-Owens-Ford Glass Co. and recorded on the

Book 133 page 133 in the office of the County Clerk for said County in

December 1930

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 of and County above named, determined by survey and corners 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 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 addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to register in such proposed location or which they are required to make by Section 8701 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 remove 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 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 TREATMENT

WELL OPERATOR

P. O. Box 4168

STREET

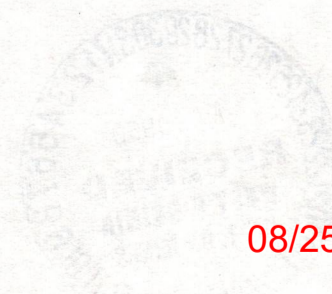
Charleston

CITY OR TOWN

West Virginia

STATE

Address
of
Well Operator



08/25/2023

Section 8701. 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 or agent to said proposed location, the department shall forthwith issue to the well operator a drilling permit setting the time of such plat that no objections have been made by the coal operators to the location, or found thereby by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.

Permit Number WVT-1277

Formation	Color	Hard or Soft	Top /s	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Injun	Red	Med.	1432	1447			
Grey Injun	Grey	Med.	1447	1504	Gas 1470-1476		15 MCF
					Gas 1476-1490		73.5 MCF
Sl. & Shls	Dark	Med.	1504	1586			
Sl. & Shls	Light	Med.	1586	1640			
Slate	Light	Med.	1640	1690			
Sl. & Shls	Light	Med.	1690	1697			
Sl. & Shls	Grey	Soft	1697	1753			
Sl. & Shls	Light	Med.	1753	1814			
Sl. & Shls	Light	Soft	1814	1880			
Sl. & Shls	Light	Med.	1880	1915			
Slate	Grey	Soft	1915	1930			
Shells	Dark	Hard	1930	1951			
Sl. & Shls	Light	Med.	1951	1992	Test 1965		28.2 MCF
Slate	Dark	Soft	1992	2027			
Berea	Grey	Hard	2027	2052	Gas 2032		33.2 MCF
Sl. & Shls	Dark	Med.	2052	2061	Test 2060		29.3 MCF
Sand	Grey	Hard	2061	2087	Gas-? 2064		31.3 MCF
Slate	White	Soft	2087	2098	Test 2098		29.3 MCF
Sl. & Shls	Dark	Med.	2098	2147			
Sl. & Shls	Light	Soft	2147	2302	Gas-? 2207		29.8 MCF
Shells	Light	Hard	2302	2332			
Sl. & Shls	Light	Soft	2332	2463			
Slate	Light	Soft	2463	2511			
Sl. & Shls	Light	Soft	2511	2532			
Br. Shale	Brown	Med.	2532	2646			
Slate	Light	Soft	2646	2672			
Br. Shale	Brown	Soft	2672	2989			
Sl. & Shls	Light	Soft	2989	3007	Test 3007		20.7 MCF
			Total Depth	3007			
			Total Depth After Shot	2996			
					Shot well with 4600# Trojan Powder from 2529 to 3006' (12 Noon)		
					Test Before Shot: 19.3 MCF		
					15 Min. After Shot: 590. MCF		
					1 Hr. " " 193. MCF		
					5-25-60		
					23 Hrs. " " 67.4 MCF		
					5-26-60		
					Installed 3 1/2" tubing at 1941' with "Oilwell" Hookwall Packer		
					Final Open Flow:		
					Big Injun 18 MCF		
					Br. Shale 47 MCF		
					65 MCF		
					Shut-in in 3 1/2" tubing at 4:35 P. M.		
					52 1/2 Hrs. after shot.		

08/25/2023

Date June 16, 19 60

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By G. N. Smith
A. H. Smith, (Title) Land, Engrg. & Geol. Mgr.



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 18

Quadrangle Wayne

Permit No. Way-1273

WELL RECORD

Oil or Gas Well GAS (KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4168, Charleston, W. Va.
Farm Hoard-Baldwin Acres 175
Location (waters)
Well No. 56 (Serial No. 1094) Elev. 847.9
District Stonewall County Wayne
The surface of tract is owned in fee by
Address
Mineral rights are owned by Owens, Libbey-Owens Gas
Department Address Charleston, W. Va.
Drilling commenced 4-2-60
Drilling completed 5-20-60
Date Shot 5-24-60 From 2529 To 3006
With 4600# Trojan Powder
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Big Injun 18 MCF; Br. Shale 47 M Cu. Ft.
Rock Pressure 375 lbs. 8 days hrs.
Oil bbls., 1st 24 hrs.
Fresh water 295' feet 895'; 920' feet
Salt water feet feet

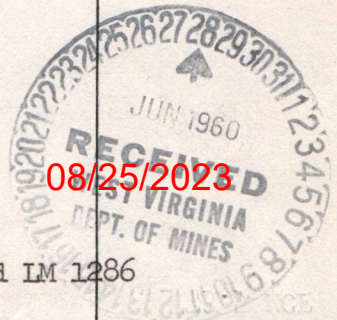
Table with columns: Casing and Tubing, Used in Drilling, Left in Well, Packers. Includes data for casing sizes (16, 13, 10, 8 1/2 5/8, 6 5/8 7, 5 3/16, 3 1/2, 2) and packer details (Kind of Packer, Size, Depth set, Perf. top/bottom).

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 331 FEET 60 INCHES

FEET INCHES FEET INCHES FEET INCHES

Main well log table with columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth Found, Remarks. Includes geological data and production notes like 'Water at 295', 1 BPH' and 'Installed 8-5/8" casing at 374' on shoe'.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. WAY-1273

Oil or Gas Well 56
(KIND)

Company Owens Libby Owens Gas Dept.

Address P.O. Box 4168

Address Charleston 4, W. Va.

Farm Hoard-Baldwin

Well No. 56

District Stonewall County Wayne

Drilling commenced 4-2-60

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer _____
16			
13			
10	14' (wood)		Size of _____
8 1/4			
6 5/8			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 _____ FEET _____ INCHES

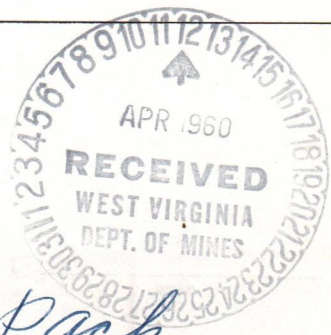
_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Homer Yeager

Fred Lusher

Remarks: Fishing for tools @ 160'.
E. J. Elkins, drilling contractor



Jw. Pack

4/6/60

DATE

DISTRICT WELL INSPECTOR

08/25/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

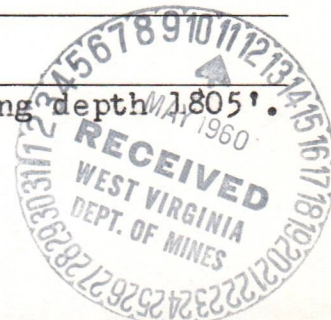
Permit No. WAY-1273

Oil or Gas Well 56-S-1094
(KIND)

Company <u>Owens Libby Owens Gas Dept.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>P.O. Box 4168</u>	Size			
Address <u>Charleston, W. Va.</u>	16			Kind of Packer
Farm <u>Hoard-Baldwin, Tr. #2</u>	13			
Well No. <u>56-S-1094</u>	10	<u>10' (wood)</u>		Size of
District <u>Stonewall</u> County <u>Wayne</u>	8 1/4	<u>373'</u>		Depth set
Drilling commenced	6 5/8	<u>1283' 7"</u>		
Drilling completed	5 3/16			
Date shot	3			Perf. top
Initial open flow	2			Perf. bottom
Open flow after tubing	Liners Used			Perf. top
Volume				Perf. bottom
Rock pressure	CASING CEMENTED	SIZE	No. FT.	Date
Oil	COAL WAS ENCOUNTERED AT <u>331</u> FEET <u>60</u> INCHES			
Fresh water	FEET INCHES FEET INCHES			
Salt water	FEET INCHES FEET INCHES			

Drillers' Names Harry Barnett
Alferd Miller

Remarks: Salt Sand 750'-1120'; Big Lime 1270'-1422'; drilling depth 1805'.
E. J. Elkins, drilling contractor.



5-6-60

DATE

Jw. Pack

DISTRICT WELL INSPECTOR

08/25/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. WAY-1273

Oil or Gas Well Gas
(KIND)

Company <u>Owens Libby Owens Gas Dept.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>P.O. Box 4168 Charleston, West Va.</u>	Size			Kind of Packer
Farm <u>Hoard-Baldwin</u>	16			
Well No. <u>56-S-1094</u>	13			
District <u>Stonewall</u> County <u>Wayne</u>	10	<u>10' (wood)</u>		Size of
Drilling commenced	8 1/4	<u>373'</u>		
Drilling completed <u>5/20/60</u> Total depth <u>3006'</u>	6 5/8	<u>1283' 7"</u>		Depth set
Date shot <u>5/24/60</u> Depth of shot <u>3006'</u>	5 3/16			
Initial open flow <u>40</u> /10ths Water in <u>3/8" plate</u>	3			Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom
Volume _____ Cu. Ft.	Liners Used			Perf. top
Rock pressure _____ lbs. _____ hrs.				Perf. bottom
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water <u>none</u> feet _____ feet _____	COAL WAS ENCOUNTERED AT <u>331</u> FEET <u>60</u> INCHES			
Salt water <u>875</u> feet _____ feet _____	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Harry Barnett
Albert Miller

Remarks: Open flow 40/10 Water 5/8" plate; top shot 2529', bottom shot 3006'; Increase after shot 72/10 Water in 1" plate; shot with 4600 Lbs. Trojan Powder Date of shot - 5-24-60.

5-26-60

DATE

J.W. Park
RECEIVED JUN 1960
DISTRICT MINES INSPECTOR
08/25/2023

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-099-1273</u>																			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>108</u> Section of NGPA	<u>NA</u> Category Code																		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>NA</u> feet																			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Industrial Gas Corporation</u> Name <u>P. O. Box 1473</u> Street <u>Charleston</u> City			<u>009283</u> Seller Code																
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>NA</u> Field Name <u>Wayne</u> County		<u>WV</u> State																	
(b) For OCS wells:	<u>NA</u> Area Name		<u>NA</u> Block Number																	
Date of Lease:																				
<table style="margin: auto; border: none;"> <tr> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> </tr> <tr> <td style="border: none;">Mo.</td> <td style="border: none;">Day</td> <td style="border: none;">Yr.</td> <td colspan="4" style="border: none;"></td> <td style="border: none;">OCS Lease Number</td> </tr> </table>													Mo.	Day	Yr.					OCS Lease Number
Mo.	Day	Yr.					OCS Lease Number													
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Hoard Baldwin 56-1094</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.)	See Addendum "A" <u>Houdaille Industries, Inc.</u> Name			<u>N/Available</u> Buyer Code																
(b) Date of the contract:	<table style="margin: auto; border: none;"> <tr> <td style="border: none;">1</td> <td style="border: none;">2</td> <td style="border: none;">2</td> <td style="border: none;">6</td> <td style="border: none;">7</td> <td style="border: none;">3</td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Mo.</td> <td style="border: none;">Day</td> <td style="border: none;">Yr.</td> <td colspan="4" style="border: none;"></td> <td style="border: none;"></td> </tr> </table>				1	2	2	6	7	3			Mo.	Day	Yr.					
1	2	2	6	7	3															
Mo.	Day	Yr.																		
(c) Estimated annual production:	<u>5.3</u> MMcf.																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:15%;">(a) Base Price (\$/MMBTU)</th> <th style="width:15%;">(b) Tax</th> <th style="width:15%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:15%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> 7.0 Contract price: See Addendum "A" (As of filing date. Complete to 3 decimal places.) </td> <td style="text-align: center;"> <u>1 2 8 3</u> </td> <td style="text-align: center;"> <u>0 0 5 1</u> </td> <td style="text-align: center;"> <u>0 0 0 3</u> </td> <td style="text-align: center;"> <u>1 3 3 6</u> </td> </tr> <tr> <td style="vertical-align: top;"> 8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.) </td> <td style="text-align: center;"> <u>2 . 2 4 3</u> </td> <td style="text-align: center;"> <u>0 . 3 0 2</u> </td> <td style="text-align: center;"> <u>0 . 0</u> </td> <td style="text-align: center;"> <u>2 . 5 4 5</u> </td> </tr> </tbody> </table>						(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	7.0 Contract price: See Addendum "A" (As of filing date. Complete to 3 decimal places.)	<u>1 2 8 3</u>	<u>0 0 5 1</u>	<u>0 0 0 3</u>	<u>1 3 3 6</u>	8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<u>2 . 2 4 3</u>	<u>0 . 3 0 2</u>	<u>0 . 0</u>	<u>2 . 5 4 5</u>	
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)																
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9.0 Person responsible for this application:	<u>William C. Charlton</u> Name Title <u>Division Counsel</u>																			
Agency Use Only	<u>William C Charlton</u> Signature <u>02/28/79</u> Date Application is Completed																			
Date Received by Juris. Agency																				
Date Received by FERC																				
				<u>(304) 342-8166</u> Phone Number																

08/25/2023

PARTICIPANTS:

DATE:

BUYER-SELLER:

WELL OPERATOR: Industrial Gas Corporation 009283

FIRST PURCHASER: Houdaille Industries, Inc.

OTHER: N/A:

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
790273-108-099-1273
 Use Above File Number on all Communications
 Relating to Determination of this Well

Qualifies as Section 108, deepens well.
Per [Signature]

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 93 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 Commenced: 4-2-60
Completed: 5-24-60 Deepened _____
- (5) Production Depth: 1447-1504 ; 2032-2207;
- (5) Production Formation: Grey In Tan, Berea, Sl. & Shells, Sand;
- (5) Final Open Flow
Initial Potential: 65 MCF
- (5) Static R.P. After Frac 375 # 8 DAYS
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: $\frac{5,440}{366} = 14.86$ mcf
- (8) Avg. Daily Gas from 90-day ending w/1-120 days $\frac{1402}{90} = 15.58$ mcf
- (8) Line Pressure: 30 # PSIG from Daily Report
- (5) Oil Production: NO From Completion Report 08/25/2023
- (10-17) Does lease inventory indicate enhanced recovery being done: NO
- (10-17) Is affidavit signed? Notarized?

Does official well records in the Department confirm the submitted information? yes

Additional Information _____ Does computer program confirm? _____

Was Determination Objected to? no By Whom? [Signature]

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

Date February 28, 1979

Operator's Well No. 56-1094

API Well No. 47 - 099 - 1273
State County Permit

Previous File No. NA
(If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Industrial Gas Corporation

DESIGNATED AGENT William C. Charlton

ADDRESS P. O. Box 1473
Charleston, W. Va. 25325

ADDRESS P. O. Box 1473
Charleston, W. Va. 25325

Gas Purchase Contract No. * and Date (Month, day and year)

Meter Chart Code R0205

Name of First Purchaser *

(Street or P. O. Box)

(City)

(State)

(Zip Code)

FERC Seller Code 009283

FERC Buyer Code

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 108 Category Code NA
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

(*See FERC-121 Addendum "A")

William C. Charlton Division Counsel
Name (Print) Title
William C. Charlton
Signature

P. O. Box 1473
Street or P. O. Box
Charleston, W. Va. 25325
City State (Zip Code)

(304) 342-8166
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

See Separate Certificate Attached

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978. (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

[Signature]
Director

FEB 28 1979

Date received by
Jurisdictional Agency

By _____
Title _____ 08/25/2023

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

Date 02/28, 19 79

Operator's Well No. 56-1094

API Well No. 47 - 099 - 1273
State County Permit

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 847.90'

ADDRESS P. O. Box 1473

Watershed Not Available

Charleston, WV 25325

Dist. Stonewall County Wayne Quad. Wayne

GAS PURCHASER * _____

Gas Purchase Contract No. * _____

ADDRESS _____

Meter Chart Code R0205

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.

08/25/2023

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 X. 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, 19 79, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 28 day of February, 19 79.

My term of office expires on the 5th day of December, 19 85.

08/25/2023


Notary Public



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

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 CABOT OIL AND GAS CORPORATION)
REQUESTING CLASSIFICATION UNDER) CAUSE NO. 26
SECTION 107 OF CERTAIN WELLS IN)
BOONE, KANAWHA, LINCOLN, LOGAN) ORDER NO. 5-2
AND WAYNE COUNTIES, WEST VIRGINIA,)
AS DEVONIAN SHALE WELLS.)

REPORT OF THE OFFICE

This cause first came before the Administrator of the Office of Oil and Gas on December 3, 1981, at 1:00 p.m., in the First Floor Conference Room, 1615 Washington Street, East, Charleston, West Virginia, and upon applicant's request was continued April 14, 1982, at 10:00 a.m., in Conference Room C, Capitol Conference Center, Charleston, West Virginia, after giving notice of hearing as required by law on the applications of Cabot Oil and Gas Corporation for classification of a group of wells drilled prior to November 1, 1979, in Boone, Kanawha, Lincoln, Logan and Wayne Counties, West Virginia, 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 16 of Chapter 22-4-1-(w).
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--in (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 the Devonian Shale.
5. The applicant proposed to qualify forty-four (44) wells that were drilled prior to November 1, 1979, as Devonian Shale completions by regulation 272.101-(c).

6. Applicant established seven (7) groups of wells for which one (1) Gamma Ray log was presented for analysis. For each reference well the Gamma Ray index computation was made showing the non-shale section to be less than five percent (5%) of the Devonian Age interval penetrated. The geological witness stated that each well in each group would have a comparable Devonian section to the reference well.

7. The witness further explained certain sections of the Gamma Ray log that had abnormal readings did not represent grain size, but rather reflected radioactive components of the rock.

8. Of the seven (7) Gamma Ray Logs analyzed, the disqualifying lithology ranged from 0.0% to 1.6%.

9. A cross-section from West to East (A-A') across the area from Wayne to Boone Counties shows the same general characteristics, i.e. the gray shales near the top of the section with little or no radiation deviation grading to brown with depth and greater deviation caused by increased amounts of radioactive material.

10. The witness, a geologist, stated neither color nor radiation change appeared to reflect a change in grain size.

11. A cross-section from North to South (B-B') across the area from Kanawha to Logan Counties shows the same general characteristics, i.e. the gray shales near the top of the section with little or no radiation deviation grading to brown with depth and greater deviation caused by increased amounts of radioactive material.

12. Gases produced from the entire Devonian section are both gray and brown shales.

13. Applicant requested withdrawal of well No. 47-043-0953.

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

It is Ordered the wells tabulated are found to be capable of producing from the Devonian Shale and are classified as Section 107 wells.

08/25/2023

GROUP I Log No. 47-099-1697 as Exhibit No. 3 1% Non-Shale

47-099-0043	47-099-0598
47-099-0341	47-099-0961
47-099-0342	47-099-1274
47-099-0490	47-099-1490
47-099-0561	

GROUP II Log No. 47-099-1757 as Exhibit No. 4 1.6% Non-Shale

47-099-0869
47-099-1273
47-099-1288

GROUP III Log No. 47-043-1637 as Exhibit No. 5 0.14% Non-Shale

47-043-0954
47-099-0359
47-099-0417
47-099-0485

Also has Core Analysis Study - Exhibit No. 6

GROUP IV Log No. 47-005-1342 as Exhibit No. 7 0.1% Non-Shale

47-005-0673	47-043-0183	47-045-0166
47-005-0675	47-043-0695	
47-005-0676	47-043-1110	
47-005-0808	47-043-1168	
47-005-0809	47-043-1171	Three (3) other wells in the area
47-005-0924	47-043-1405	
47-005-1009	47-043-1409	have qualified as 107.

GROUP V Log No. 47-045-1074 as Exhibit No. 8 0.0% Non-Shale

47-045-0009

GROUP VI Log No. 47-005-1360 as Exhibit No. 9 0.2% Non-Shale

47-005-0044	47-005-0847	
47-005-0371	47-005-0851	
47-005-0505	47-005-0862	This group also used Log No.
47-005-0842	47-005-0875	47-005-1349 as Exhibit No. 10 - 0%

GROUP VII Log No. 47-039-3749 as Exhibit No. 11 0.0% Non-Shale

47-039-1775
47-039-1895
47-043-1186

The Office of Oil and Gas further incorporates the Report of the Office and the Findings of Fact and Conclusion of Law dated April 14, 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 8th day of June, 1982.

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: Thomas E. Huzzey
Thomas E. Huzzey, Administrator

OCT 22 1981

FERC-121

OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-099 - 1273				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA		N/A Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3007 feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Cabot Oil & Gas Corporation Name		000728 Seller Code		
	P. O. Box 628 Street				
	Charleston	WV	25322		
	City	State	Zip Code		
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Stonewall Field Name				
	Wayne	WV			
	County	State			
(b) For OCS wells:	N/A				
	Area Name	Block Number			
	Date of Lease:		OCS Lease Number		
	Mo.	Day	Yr.		
(c) Name and identification number of this well: (35 letters and digits maximum.)	Hoard-Baldwin 56-1094				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A				
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:	0, 8, 1, 7, 7, 9 Mo. Day Yr.				
(c) Estimated annual production:	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.)	110% of	#2 Fuel Oil			
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	130% of	#2 Fuel Oil			
9.0 Person responsible for this application.	James R. Cramblett Name		Regional Manager Drilling & Prod. Title		
Agency Use Only	Signature <i>James R. Cramblett</i>				
Date Received by Juris. Agency	October 20, 1981 Date Application is Completed		(304) 344-8355 Phone Number		
OCT 22 1981					
Date Received by FERC					

FT79C0806/2-2

08/25/2023

PARTICIPANTS:

DATE: FEB 12 1982

BUYER-SELLER CODE

WELL OPERATOR: Cabot Oil & Gas Corp.

000728

FIRST PURCHASER: Tennessee Gas Pipeline Co.

018629

OTHER:

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
811022-107-099-1273
 Use Above File Number on all Communications
 Relating to Determination of this Well

Qualifies J. H. Huzzey

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. All 7.0 + 8.0
- 2. IV-1 Agent James R. Cramblett
- 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 years
- 8. IV-40 90 day Production 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 commenced: 4-2-60 Date completed 5-20-60 Deepened
- (5) Production Depth: 2032
- (5) Production Formation: ~~Berea~~ B. Shale; Injun thru Annular
- (5) Final Open Flow: 47 MCF
- (5) After Frac. R. P. 375# 8 days
- (6) Other Gas Test:
- (7) Avg. Daily Gas from Annual Production:
- (8) Avg. Daily Gas from 90-day ending w/1-120 days
- (8) Line Pressure: PSIG from Daily Repo
- (5) Oil Production: From Completion Report
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized? 08/25/2023
- Does official well record with the Department confirm the submitted information? yes
- Additional information Does computer program confirm?
- Was Determination Objected to By Whom?

5

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

Date October 20, 19 81

Operator's Well No. Hoard-Baldwin 56-1094

API Well No. 47 - 099 - 1273
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

No Log Available

DESIGNATED AGENT James R. Cramblett
ADDRESS P. O. Box 628
Charleston, WV 25322

WELL OPERATOR Cabot Oil & Gas Corp.
ADDRESS P. O. Box 628
Charleston, WV 25322

LOCATION: Elevation 847.9'
Watershed N/A
Dist. Stonewall County Wayne Quad. Wayne

GAS PURCHASER Tennessee Gas Pipeline Co.
ADDRESS P. O. Box 2511
Houston, TX 77001

Gas Purchase Contract No. GSC140
Meter Chart Code N/A
Date of Contract 8/17/79

* * * * *

Date surface drilling began: April 2, 1960

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

$BHP = P_1 + P_1(eGL/53.34T_{-1})$ $P_1 = 389.7$ PSIA $BHP = 414.3$ PSIA
 $T = 85^\circ$
 $G = .69$
 $L = 2519'$

AFFIDAVIT

I, Paul L. Gebhard, 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. As shown by the pertinent portion of the gamma ray log attached to this filing, the percentage of potentially disqualifying non-shale footage is equal to or less than the five percent (5%) of the gross Devonian age producing interval. 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.

Paul L. Gebhard T
Geologist

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

I, Lorene Miller, a Notary Public in and for the state and county aforesaid, do certify that Paul L. Gebhard, whose name is signed to the writing above, bearing date the 20th day of October, 19 81, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 20th day of October, 19 81 **08/25/2023**
My term of office expires on the 5th day of March, 19 89.

Lorene Miller
Notary Public

[NOTARIAL SEAL]

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. Hoard-Baldwin 56-109

API Well No. 47 - 099 - 1273
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. N/A
(If Applicable)

WELL OPERATOR Cabot Oil & Gas Corporation DESIGNATED AGENT James R. Cramblett
ADDRESS P. O. Box 628 ADDRESS P. O. Box 628
Charleston, WV 25322 Charleston, WV 25322

Gas Purchase Contract No. GSC140 and Date 8/17/79
(Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Tennessee Gas Pipeline Company
P. O. Box 2511
Houston TX 77001
(City) (State) (Zip Code)

FERC Seller Code 000728 FERC Buyer Code 018629

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 107 Category Code N/A
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Regional Manager
Name (Print) James R. Cramblett Title Drilling & Production
Signature *James R. Cramblett*
P. O. Box 628
Street or P. O. Box
Charleston WV 25322
City State (Zip Code)
304 344-8355
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

"STATEMENT ATTACHED"

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request, for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978, (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA)

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

OCT 22 1981

Date received by
Jurisdictional Agency

Director
By *J. E. Mery*
Title _____

08/25/2023

IV-39-WC

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

ANNUAL REPORT OF MONTHLY PRODUCTION-1978
GAS VOLUMES IN MFC @ 14.73
OIL IN BARRELS @ 60 DEGREES
OPERATOR : Industrial Gas Corporation

REPORT NO. CCA101P1 PG 00002
CURRENT DATE - 2/28/79
REPORT DATE - 2/28/79

API	FARM	HOARD-BALDWIN	56-1094	COUNTY	Wayne	AVG. FLOW PRESSURE	25	SHUT-IN PRESSURE	NA	TOTALS			
GAS MFC	449	375	395	493	317	340	376	425	413	464	552	0AS	4896
OIL BBL	J-	F-	M-	A-	M-	J-	A-	0-	H-	D-	0-	OIL	
DAYS ONLINE	35	28	28	35	29	35	27	35	28	28	35		371

1977

API	FARM	HOARD-BALDWIN	56-1094	COUNTY	Wayne	AVG. FLOW PRESSURE	30	SHUT-IN PRESSURE	NA	TOTALS			
GAS MFC	421	429	512	614	456	182	387	508	494	417	491	0AS	5,440
OIL BBL	J-	F-	M-	A-	M-	J-	A-	0-	H-	D-	0-	OIL	
DAYS ONLINE	28	28	29	35	27	29	27	35	28	29	36		366

1978

SUMMARIZATION SCHEDULE
Section 271. 804 (b)

In accordance with Section 271.804(b) please list all other wells which are to be used in determining this well classification under Part 271 Subpart H.

API NUMBERS

- 47-099-1653; 47-099-1010; 47-099-1011; 47-099-1029; 47-099-1053; 47-099-1059; 47-099-1020;
- 47-099-0950; 47-099-0973; 47-099-0977; 47-099-0990; 47-099-0985; 47-099-0034; 47-099-0048;
- 47-099-1417; 47-099-1418; 47-099-0466; 47-099-0267; 47-099-0991; 47-099-0290; 47-099-0279;
- 47-099-1219; 47-099-1229; 47-099-1248; 47-099-1273; 47-099-1278; 47-099-1288.

08/25/2023

