



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.

State of West Virginia
COAL OPERATOR OR COAL OWNER
Conservation Commission
Charleston, W. Va.

ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

OWNER OF MINERAL RIGHTS

ADDRESS

OWENS, LIBBEY-OWENS GAS DEPARTMENT
NAME OF WELL OPERATOR

P. O. Box 4168, Charleston, W. Va. - 25304
COMPLETE ADDRESS

August 23, 19 63

PROPOSED LOCATION

Lincoln District

Wayne 38° 65' County

Well No. 84 (Serial No. 1193) 6. 1212.81'

Wilson Coal Land Co. Farm

9937 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 J. Rummell Anderson & Thomas B. Jackson, Special Commissioners, to 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 L-33.

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

CITY OR TOWN

West Virginia - 25304

STATE

10/27/2023



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.

BLANKET BOND

1471

2WAY-1471 PERMIT NUMBER

STATE OF WEST VIRGINIA
DEPARTMENT OF REVENUE

OWNER, TRUCK-OWNERS GAS TAXATION

State of West Virginia
Comptroller General
Charleston, W. Va.

P. O. Box 100, Charleston, W. Va. - 25304

(Contact No. 100)

West Virginia Gas Taxation

December 17, 1936

West Virginia Gas Taxation

December 17, 1936

100

OWNER, TRUCK-OWNERS GAS TAXATION

P. O. Box 100

Charleston

West Virginia - 25304



10/27/2023

10/27/2023

BLANKET BOND

September 2, 1963
"Centennial Year"

Owens, Libbey-Owens Gas Department
P. O. Box 4168
Charleston, West Virginia 25304

Att: Mr. J. E. Workman
Chief Engineer

Gentlemen:

Enclosed is Permit WAY-1471 for drilling Well
No. 84-S-1193 on the Wilson Coal Land Company Lease,
Lincoln District, Wayne County.

Very truly yours,

Executive Secretary
OIL AND GAS DIVISION

GW/jb
enclosure

cc: Mr. Kenneth E. Butcher, Inspector

Mr. R. C. Tucker, Assistant State
Geologist

10/27/2023

OWENS, LIBBEY-OWENS GAS DEPARTMENT

5793 MACCORKLE AVENUE

P. O. BOX 4168

CHARLESTON, WEST VIRGINIA 25304



March 18, 1965

W. Va. Department of Mines
Oil & Gas Division
Charleston, West Virginia

Gentlemen:

Please reinstate Permit Way-1471 for drilling well No. 84-S-1193 on our Wilson Coal Land Company Lease, Lincoln District, Wayne County. The permit was originally issued to us on September 2, 1963.

Yours very truly,

OWENS, LIBBEY-OWENS GAS DEPARTMENT

By

A. H. Smith,

Mgr. Land, Engrg. & Geology

*Plant
copy*

Please renew Permit Way-1471

AHS/ed

JW



10/27/2023

OWENS-LIBBEY-OWENS GAS DEPARTMENT

25304 CHARLSTON, WEST VIRGINIA

25304 CHARLSTON, WEST VIRGINIA



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March 19, 1965

Owens, Libby-Owens Gas Department
5793 MacCorkle Avenue
P. O. Box 4168
Charleston, West Virginia

Att: Mr. A. H. Smith

Gentlemen:

In compliance with your request we have reinstated Drilling Permit WAY-1471 for your Wilson Coal Land Company Well No. 84-S-1193 located in Lincoln District of Wayne County.

Permit will be effective until July 19, 1965.

Very Truly yours,

Gurmer Wamock
Deputy Director
OIL AND GAS

GW/jc

10/27/2023

Formation	Color	Hard or Soft	Top 14	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sl. & Shls.	Dark	Med.	1455	1490			
Sand	Dark	Med.	1490	1530			
Sl. & Shls.	Dark	Med.	1530	1570			
Little Lime	Grey	Hard	1570	1601			
Break	Dark	Soft	1601	1603			
Big Lime	White	Hard	1603	1618	5-17-65		
					Installed 7" casing at 1618 ft. on a shoe.		
Big Lime	White	Med.	1618	1718	5-21-65		
					Show of oil and gas 1708 - 1716 ft. Test 1716, 8.5 M		
Big Lime	White	Hard	1718	1728	1723-1728, Gas 1723, Gas 1728, Gas 1732, SIM 1772		oil & gas increased 112 M 118 M 163 M
Big Lime	White	Hard	1728	1750			
Big Lime	White	Hard	1750	1762	7-2-65		
Big Lime	White	Hard	1762	1775	Filled with rock-1772 - 1737 ft. Dumped 1 bag Calseal at 1737 ft. Test 2:45 P.M.		137 M
					8-19-65		
					Re-ran 3-1/2" tubing with a hookwall packer set 1688 to 1691 ft. Ran 29' of tail pipe below packer.		
					8-25-65		
					Acidized well. Loaded annulus with 48 bbl. crude oil. Tested oil & gas 10 hours. Dowell acidized Big Lime using 3,000 gal. 15% HCL acid. Used 16 bbl. oil to flush acid.		
					8-26-65		
					2 hr. test Put 3'1" of oil into tanks. (30.7 bbl. oil)		2,470 M
					10-19-65		
					Test 9 A.M. Pulled 1724' 3" of 3-1/2" tubing. Oil drowned out gas. Further tests showed the oil to be exhausted and the gas volume to be about 10 MCF. On 12-15-65 started to drill deeper.		823 M
					12-15-65 Drilled out rock bridge to 1,772 ft.		
Big Lime	Grey	Hard	1772	1780			
Grey Injun	Grey	Med.	1780	1834	Test 1834,		10.6 M
Grey Injun	Grey	Med.	1834	1850	Test 1840,		29.3 M
Slate	Dark	Med.	1850	1861			
Slate & Shs.	Dark	Med.	1861	1871	Test 1871,		12.2 M
Slate & Shs.	Light	Soft	1871	2132			
Slate & Shls.	White	Soft	2132	2312	Test 2275,		8.6 M
Gritty Lime	Light	Hard	2312	2352	Gas 2337,		13.6 M
Slate	Light	Soft	2352	2359			
Lime	Light	Hard	2359	2375			
Shells	Dark	Hard	2375	2380			
Sl. & Shls.	Light	Soft	2380	2411			
Br. Shale	Dark	Soft	2411	2490			
Sl. & Shls.	Light	Soft	2490	2782	Test 2514,		11.4 M
Br. Shale	Dark	Soft	2782	2860	Test 2860,		11.4 M
Br. Shale	Brown	Soft	2860	2870			
Slate	Light	Soft	2870	2884			
Sl. & Shls.	Light	Soft	2884	2942			
Br. Shale	Brown	Soft	2942	3277	Test 3042,		11.4 M
Slate	White	Soft	3277	3311	Test 3311,		11.4 M
			Total Depth	3311	SIM 3311 = Sand IM		10/27/2023

Date March 11, 19 66

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

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



*Miss Phillips
for posting
3-15-66
WB*

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 14

Quadrangle Wayne

Permit No. Way-1471

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4168, Charleston, W. Va. 25304
Farm Wilson Coal Land Company Acres 9872.23
Location (waters) _____
Well No. 84 (Serial No. 1193) Elev. 1212.81
District Lincoln County Wayne
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Owens, Libbey-Owens Gas Department
Address same as above
Drilling commenced 4-27-65
Drilling completed 2-25-66
Date Shot 3-1-66 From 2298 To 3311
With 9,550# Trojan Powder

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
10- 8-5/8"	514'2"	514'2"	Kind of Packer
13- 7"	1611'10"	1611'10"	Hookwall
10- 3-1/2"	1728'	Pulled	Size of
8-1/4 3-1/2"	1724'1"	Pulled	3-1/2 x 7 x 16
6-5/8 2-3/8	1740'10"	Pulled	Depth set
5-3/16 5/8" rods	1746'1"	Pulled	1811 - 1815
3- 5/8" rods	1747'3"	Pulled	Perf. top
2- 3-1/2"	1818'1"	1818'1"	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

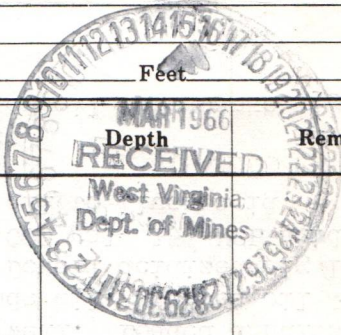
Open Flow 11 /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume (B.L. 17 M; Shls. & Sha. 75 M) 92 M Cu. Ft.
Rock Pressure Csg. 93# Tbg. 455# 7 Days hrs.
Oil _____ bbls., 1st 24 hrs.

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 221 FEET 36 INCHES
412 FEET 36 INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL ACIDIZED _____
WELL FRACTURED _____

RESULT AFTER TREATMENT _____
ROCK PRESSURE AFTER TREATMENT _____
Fresh Water 380, 1080 Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Remarks
Surface	Light	Soft	0	5		
Sand	Light	Soft	5	37		
Slate	Grey	Soft	37	62		
Sand	Yellow	Med.	62	115		
Bro. Sand	Light	Soft	115	215		
Sand	Yellow	Soft	215	221		
Coal	Black	Soft	221	224		
Slate	Grey	Soft	224	306		
Bro. Sand	Grey	Soft	306	410		Water at 380 ft., 1 B.P.H.
Slate	Grey	Soft	410	412		
Coal	Black	Soft	412	415		
Bro. Sand	Grey	Soft	415	502		
Slate	Grey	Soft	502	522		5-1-65 SIM 516 = Sand IM 520 Installed 8-5/8" casing at 516 ft. on a shoe.
Slate	Dark	Soft	522	550		
Sand	Dark	Soft	550	662		
Sl. & Shls.	Dark	Soft	662	790		
Bro. Sand	Light	Soft	790	821		
Slate	Grey	Soft	821	846		
Bro. Sand	Dark	Soft	846	900		
Sand	White	Soft	900	974		
Slate	Dark	Soft	974	997		
Salt Sand	White	Med.	997	1165		Water at 1080 ft., 10/27/2023
Slate	Dark	Soft	1165	1213		
Sl. & Shls.	Dark	Med.	1213	1267		
Sand	Grey	Med.	1267	1327		
Slate	Grey	Soft	1327	1367		
Sand	Light	Hard	1367	1455		





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Wayne

Permit No. 10/27/2023

WELL RECORD

Oil or Gas Well Gas (KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT

Address P. O. Box 4168, Charleston, W. Va. 25304

Farm Wilson Coal Land Company Acres

Location (waters) 84 (Serial No. 1193) Elev.

Well No. 13

District 13

The surface of tract is owned in fee by 10

Address 8 1/4

Mineral rights are owned by 6 3/8

Address 5 3/16

Drilling commenced 4-27-65

Drilling completed 2-25-66

Date Shot From To

With Open Flow /10ths Water in Inch

Volume Open Flow /10ths Merc. in Inch

Rock Pressure Volume lbs. hrs.

Oil Rock Pressure bbls., 1st 24 hrs.

WELL ACIDIZED Oil

WELL FRACTURED WELL ACIDIZED

RESULT AFTER TREATMENT WELL FRACTURED

ROCK PRESSURE AFTER TREATMENT RESULT AFTER TREATMENT

Fresh Water ROCK PRESSURE AFTER TREATMENT Feet

Formation Fresh Water Feet

Color Formation Feet

Hard or Soft Color Feet

Top Hard or Soft Feet

Bottom Top Feet

Oil, Gas or Water Bottom Feet

Depth Oil, Gas or Water Feet

Remarks Depth Feet

Continued: Remarks



3-1-66 King Torpedo Co. shot Shells & Br. Shale from 2298 - 3311 ft. with 9,550# of Trojan Powder at 2 P.M. Shot not tamped. Tests A.S.: 15 Min. 1 Hr. 2 Hrs. Ran in and found bridge at 2,328' by SIM Drilled out bridge.. 10 Hrs. 3-2-66 Installed 3-1/2" tubing at 1815' with a hookwall packer set from 1811-1815 ft. Test after: Big Lame Shells & Br. Shale Well shut in 3:45 P.M.

1,426 M
399 M
235 M
130 M
16.7 M
75 M

(over)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary

Spudder

Cable Tools

Storage

INSPECTOR'S WELL REPORT

Permit No. _____

Did not get permit number

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<i>Owens-Libby-Owens</i>	Size			
<i>Charleston, W.Va.</i>	16			Kind of Packer _____
<i>Wilson Coal Land Co.</i>	13			
Well No. <i>84</i>	10			Size of _____
District <i>Lincoln</i> County <i>Wayne</i>	8 1/4			
Drilling commenced <i>4-26-65</i>	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names *John Chadwick*

Centr. Clifford Mills

Remarks: *Total Depth 150-*

4-29-65
DATE



K.E. Butcher
DISTRICT WELL INSPECTOR
10/27/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

INSPECTOR'S WELL REPORT

Permit No. 2 Way 1491

Oil or Gas Well _____
(KIND)

		CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Company	<u>Alvens-Libler-Alvens</u>				
Address	<u>Charleston, Wva,</u>	Size			
Farm	<u>Wilson Coal Land Co,</u>	16			Kind of Packer _____
Well No.	<u># 84</u>	13			
District	<u>Lincoln</u> County <u>Wayne</u>	10			Size of _____
Drilling commenced		8 1/4			
Drilling completed	Total depth _____	6 5/8			Depth set _____
Date shot	Depth of shot _____	5 3/16			
Initial open flow	/10ths Water in _____ Inch	3 1/2 = 1775' app.			Perf. top _____
Open flow after tubing	/10ths Merc. in _____ Inch	2 Cemented in			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	feet _____ feet _____	NAME OF SERVICE COMPANY _____			
Salt water	feet _____ feet _____	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
		_____ FEET _____ INCHES FEET _____ INCHES			
		_____ FEET _____ INCHES FEET _____ INCHES			

Drillers' Names _____

Contr. Clifford Mills

Remarks: _____

Preparing to acidize

8-16-65
DATE

W.E. Butcher
DISTRICT WELL INSPECTOR

10/27/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well oil
(KIND)

Way 1471

INSPECTOR'S WELL REPORT

Permit No. 1

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Owens - Leiby - Owens</u>	Size			
<u>Charleston, W Va,</u>	16			Kind of Packer
<u>Wilson Coal Land Co,</u>	13			
<u>84</u>	10			Size of
<u>Lincaln</u> County <u>Wayne</u>	8 1/4			
<u>9-2-63</u> ?	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 _____			
	NAME OF SERVICE COMPANY _____			
	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES
	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES

Drillers' Names Marple Curry
Co. Tools

Remarks: Total Depth 1834-
This is a producing oil well, but co. decided to drill deeper.

1-12-66
DATE

RECEIVED
JAN 10 1966
West Virginia
Dept. of Mines
H.C. Batches
INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary

Spudder

Cable Tools

Storage

INSPECTOR'S WELL REPORT

Permit No. WAY-1471

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Owens-Libby-Owens</u>				
Address <u>Charleston, W Va,</u>	Size			
Farm <u>Wilson Coal Land Co,</u>	16			Kind of Packer _____
Well No. <u>84</u>	13			
District <u>Lincoln</u> County <u>Wayne</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	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.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

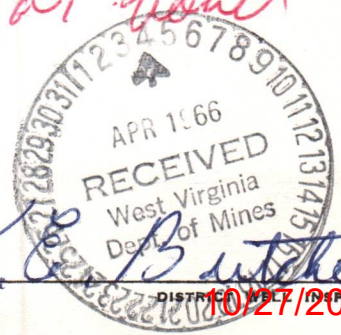
_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Curry Toal Pusher

Remarks: CO Tools

Final inspection made for final release.

3-30-66
DATE



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

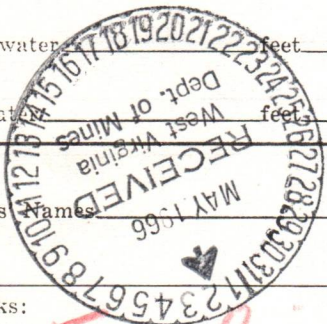
- Rotary
- Spudder
- Cable Tools
- Storage

INSPECTOR'S WELL REPORT

May-14-71
Permit No. 14-71

Oil or Gas Well Gas
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<i>Owens-Libby-Owens</i>	Size			
<i>Charleston, W.Va.</i>	16			Kind of Packer
<i>Wilson Coal Land Co.</i>	13			
Well No. <i>84</i>	10			Size of
District <i>Lincoln</i> County <i>Wayne</i>	8 1/4			
Drilling commenced	6 3/8			Depth set
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing <i>Beaker</i> _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Drillers <i>James</i>	_____ FEET _____ INCHES _____ FEET _____ INCHES			



Remarks: *Final inspection has been made.*

4-25-66
DATE

K. E. Butcher
DISTRICT WELL INSPECTOR
10/27/2023



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 5

W. F. EIGENBROD
DIRECTOR

April 26, 1966

GURMER WAMOCK
DEPUTY DIRECTOR

OWENS, LIBBEY-OWENS GAS DEPT.
P. O. Box 4168
Charleston, W. Va. 25304

ATT: Mr. A. H. Smith

In Re: Permit WAY-1471
Farm Wilson Coal Land Co.
Well No. 84
District Lincoln
County Wayne

Gentlemen:

The final inspection report for your well which is described above has been received in our office.

Please be advised that the well, which is covered by the above permit number, has been released under your Blanket Bond.

Yours very truly,

Gurmer Wamock
Deputy Director
OIL AND GAS DIVISION

10/27/2023

WELL DETERMINATION REPORT

PARTICIPANTS:

DATE: OCT 19 1979

BUYER-SELLER CODE

WELL OPERATOR: Industrial Gas Corporation

009283

FIRST PURCHASER: Houdaille Industries, Inc.

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
790228 - 108-099-1471
 Use Above File Number on all Communications
 Relating to Determination of this Well

*Quantities on Section 108, stopped well
 Press (M)*

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 85 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) Commenced: 4-27-65
 Date Completed: 2-25-65 drill _____ Deepened _____
 Fraced: _____
- (5) Production Depth: 1708-32, 2337,
- (5) Production Formation: Big lime, Grity lime,
- (5) Final Open Flow 92 mcf
 Initial Potential: _____
- (5) After Frac: csu a3#
 Static R.P. Initially: 76g 455#
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: 12.8 mcf (4665/364)
- (8) Avg. Daily Gas from 90-day ending w/1-120 days 15.6 mcf (1326/85)
- (8) Line Pressure: 33# PSIG from Daily Report
- (5) Oil Production: From Completion Report Show 1723-28
- (10-17) Does lease inventory indicate enhanced recovery being done: 10/27/2023
- (10-17) Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? Yes
- Additional Information _____ Does computer program confirm? _____
- Was Determination Objected to? _____ By Whom? _____

75 # B

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

Date 02/28, 1979
Operator's Well No. 84-1193
API Well No. 47 - 099 - 1471
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 1,212.81'
ADDRESS P. O. Box 1473 Watershed Not Available
Charleston, WV 25325 Dist. Lincoln County Wayne Quad. Wayne
GAS PURCHASER * Gas Purchase Contract No. *
ADDRESS _____ Meter Chart Code R0002
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.

10/27/2023

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 . 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.

10/27/2023



Notary Public

[NOTARIAL SEAL]

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

Date February 28, 19 79

Operator's Well No. 84-1193

API Well No. 47 - 099 - 1471
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 R0002

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.) 108 Section of NGPA NA Category Code
- (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

FEB 28 1979

[Signature]
Director

Date received by
Jurisdictional Agency _____

By _____
Title 10/27/2023

IV-39-WC

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

ANNUAL REPORT OF MONTHLY PRODUCTION-197A
GAS VOLUMES IN MFC @ 14.73
OIL IN BARRELS @ 60 DEGREES
Industrial Gas Corporation
10' 18

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

API	47-099-01471	FARM	Wilson Coal	84-1193	COUNTY	Wayne	AVG. FLOW PRESSURE	45	SHUT-IN PRESSURE	NA	TOTALS
GAS MFC	458	495	408	451	433	389	256	416	311	364	4640
OIL BBL	J-	F-	M-	A-	M-	J-	J-	A-	0-	H-	0AS
DAYS ONLINE	30	34	27	31	32	29	27	37	30	31	365

API	47-099-01471	FARM	Wilson Coal	84-1193	COUNTY	Wayne	AVG. FLOW PRESSURE	33	SHUT-IN PRESSURE	NA	TOTALS
GAS MFC	384	320	302	326	455	391	355	399	407	443	4665
OIL BBL	J-	F-	M-	A-	M-	J-	J-	A-	0-	H-	0AS
DAYS ONLINE	34	30	27	31	32	29	30	31	35	30	364

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 47-099-1321; 47-099-0340; 47-099-0341; 47-099-0342; 47-099-0490; 47-099-0516; 47-099-0633;
 47-099-0397; 47-099-0210; 47-099-0230; 47-099-0560; 47-099-0753; 47-099-0761; 47-099-0792; 47-099-0793;
 47-099-1466; 47-099-1487; 47-099-1488; 47-099-1489; 47-099-1490; 47-099-1491; 47-099-1495; 47-099-1500; 47-099-1507;
 47-099-0049; 47-099-0036; 47-099-0193; 47-099-0312; 47-099-0328; 47-099-0330; 47-099-0347; 47-099-0382;
 47-099-0409; 47-099-0434; 47-099-0487; 47-099-0584; 47-099-0819; 47-099-0820; 47-099-0871; 47-099-0853;
 47-099-0856; 47-099-0862; 47-099-0961; 47-099-0981; 47-099-1274; 47-099-0790; 47-099-0634; 47-099-0019;
 47-099-0001; 47-099-0037; 47-099-0041; 47-099-0021; 47-099-0015; 47-099-0013; 47-099-0053; 47-099-1548;
 47-099-1550; 47-099-1551; 47-099-0043; 47-099-0038; 47-099-0050; 47-099-0877; 47-099-0247;
 47-099-0253; 47-099-0260; 47-099-0854; 47-099-1291; 47-099-0972; 47-099-1486; 47-099-1464; 47-099-1499;
 47-099-1508; 47-099-0561; 47-099-0598; 47-099-0304; 47-099-0798; 47-099-0824; 47-099-0838; 47-099-0641;
 47-099-0019; 47-099-0015; 47-099-1471; 47-099-1337.

10/27/2023

RECEIVED
MAR 31 1980

OIL & GAS DIVISION
DEPT. OF THE INTERIOR
MINE MINES
Category Code

1.0 API well number: (If not available, leave blank. 14 digits.)	47-099-1471			
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.)	NA feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Tug Fork Corporation Name P. O. Box 3711 Street Charleston City		WV State	25337 Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	NA Field Name Wayne County		WV State	
(b) For OCS wells:	NA Area Name		NA Block Number	
	Date of Lease: Mo. Day Yr.		NA OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Wilson Coal Land Co.		84-1193	
(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.)	Tennessee Gas Pipeline Company Name		018629 Buyer Code	
(b) Date of the contract:	08 17 80 Mo. Day Yr.			
(c) Estimated annual production:	4.4 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.)	2.404	.324	0.0	2.728
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.404	.324	0.0	2.728
9.0 Person responsible for this application:	Lawrence B. Mentzer Name Corporate Attorney Title			
Agency Use Only Date Received by Agency MAR 21 1980 Date Received by FERC	Signature  MAR 03 1980		(304) 342-8166 Phone Number	
	Date Application is Completed			

10/27/2023

REQUIREMENTS:

Aug. 14, 1980

WELL OPERATOR: Tug Fork Corp.
FIRST PURCHASER: Tennessee Gas Pipeline Co.
OPER: _____

NA
01862

Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
800331-107-099-1471
Use Above File Number on all Communications
Relating To Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- 1. FERC-121 Items not completed - Line No. _____
- 2. IV-1 Agent Lawrence B. Mentzer
- 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 No Prod years _____
- 8. IV-40 90 day Production _____ Days off lines: _____
- 9. IV-45 Application for certification. Complete?
- 10. IV Form #31 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Completed?
- 11. Colors: Survey _____ Gas _____ Geological Charts _____
Structure Map _____ 10-100 Map _____ Well Trajectories _____
Gas Analyses _____
- 12. Date commenced: 4/27/65 Date completed 3/1/66 Extended _____
- 13. Production Depth: 3277/3311, 2312/52, 1728/50,
- 14. Production Formation: Slate, Gritty Lime, Big Lime,
- 15. Final Open Flow: 92 mcfd
- 16. Water Free. P.P. 455 #
- 17. Other Gas Tests: _____
- 18. Avg. Daily Gas from Annual Production: No Prod
- 19. Avg. Daily Gas from 90-day ending w/1 - 130 Days: " "
- 20. Line Pressures: None 1510 10/27/2023
- 21. Oil Production: yes From Completion Report 1708
- 22. Does lease inventory indicate enhanced recovery being done No
- 23. Is affidavit signed? Notarized: _____

Official well record with the Department confirm the submitted information? YES
Additional Information: _____ Does computer program confirm? PL

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

MAR 3 1980

Date _____ 19____
Operator's Well No. 84-1193
API Well No. 47 - 099 - 1471
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL

NGPA Section 107

DESIGNATED AGENT Lawrence B. Mentzer

ADDRESS P. O. Box 3711

Charleston, W.Va. 25337

LOCATION: Elevation 1212.81

Watershed N/A

Dist. Lincoln County Wayne Quad. Wayne

WELL OPERATOR Tug Fork Corporation

ADDRESS P. O. Box 3711

Charleston, W. Va. 25337

GAS PURCHASER Tennessee Gas Pipeline Company Gas Purchase Contract No. TF-1

ADDRESS P. O. Box 2511

Houston, Texas 77001

Meter Chart Code R0002

Date of Contract 08/17/80

* * * * *

AFFIDAVIT

I, James O. Sayre, 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. 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.

James O. Sayre
Geologist

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 James O. Sayre, whose name is signed to the writing above, bearing date the 3rd day of March, 1980, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 3rd day of March, 1980
My term of office expires on the 5th day of December, 1985.

Charlotte I. Mathews
Notary Public

[NOTARIAL SEAL]

10/27/2023

ELECTRIC LOGS

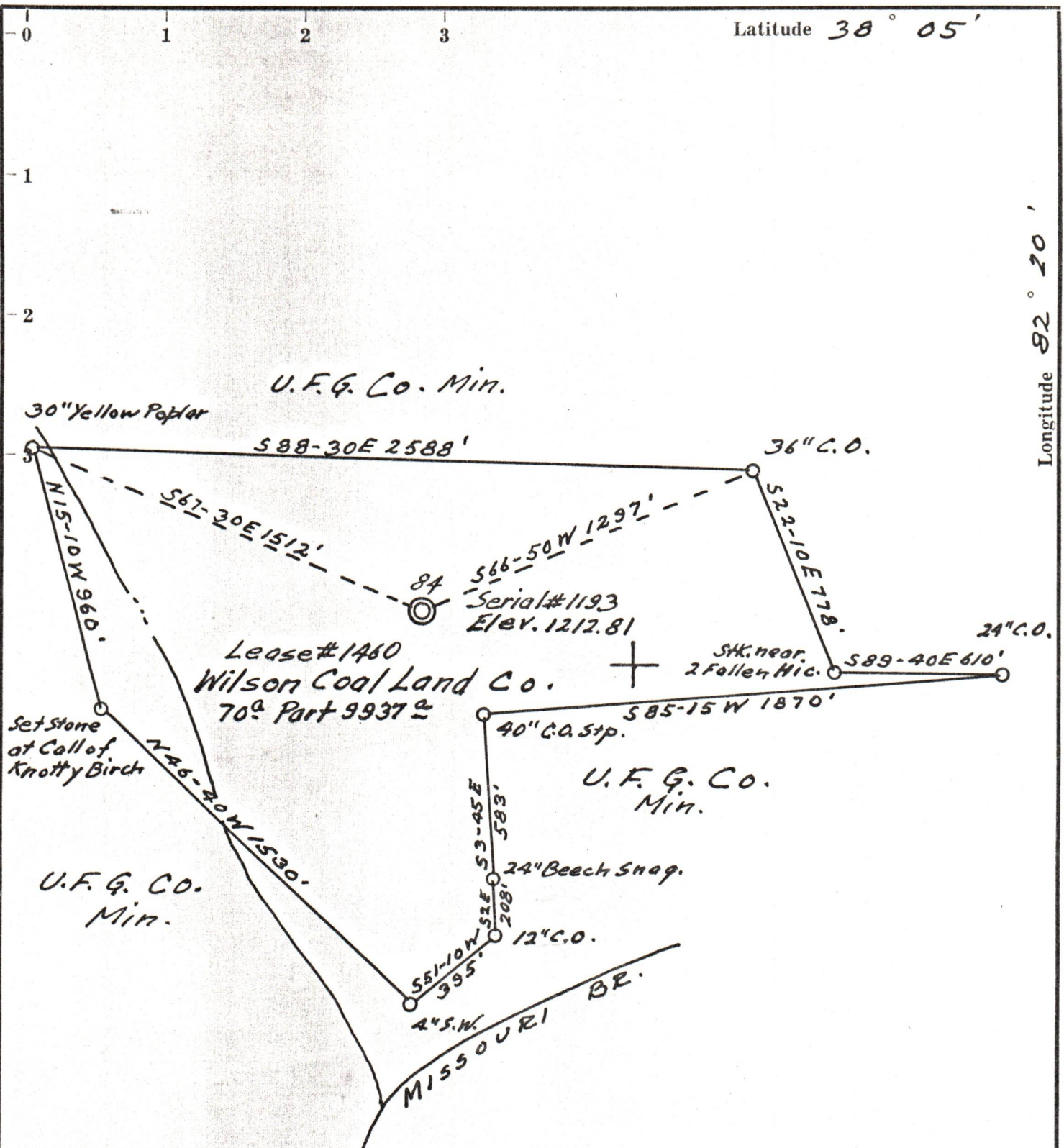
With reference to this well, please note that, at the time of the drilling hereof, neither electric logs nor the technology for logging were available. In lieu of actual electric logs on this well, we hereby refer to the gamma ray log and temperature log of the Caldwell & Colton Min. #20,289-T, Permit No. Wayne 1581. Our geologist(s) submit that these logs are representative of the area and shows the same or similar formations and structures as encountered in the well herein filed for.

Please refer to 107 Tug Fork well certification filing on Well No. 3-521, API No. 47-099-0019 for a copy of the said gamma ray and temperature logs applicable herein.

10/27/2023

Latitude 38° 05'

Longitude 82° 20'



Acc. within 1 Part in 200.
 Elev. made from C.G.S.
 X-148 Located on
 Highway Bridge on U.S. 52
 near Missouri Br.

- New Location.
- Drill Deeper.
- Redrill
- Abandonment

I, the undersigned hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 6 of the rules & regulations of the Oil & Gas Section of the mining laws of West Virginia

Sam Ransing

BX. 128 P 36-47

Company Owens, Libbey-Owens Gas Dept.
 Address Box 4160 Charleston W. Va.
 Farm Wilson Coal Land Co.
 Tract _____ Acres 9937 Lease No. 1460
 Well (Farm) No. 84 Serial No. 1193
 Elevation (Spirit Level) 1212.81
 Quadrangle Wayne
 County Wayne District Lincoln
 Engineer Sam Ransing
 Engineer's Registration No. 1540
 File No. _____ Drawing No. _____
 Date Aug. 20, 1963 Scale 1" = 500 Ft.

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

WELL LOCATION MAP
 FILE NO. WAY-1471

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.