



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Margateck

WELL RECORD

Permit No. Wayne - 561

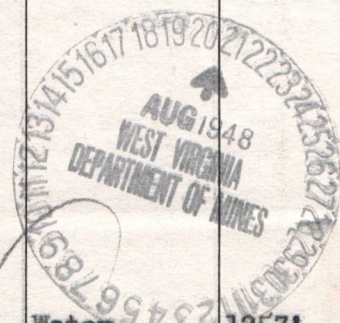
Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4158, Charleston 4, W. Va.
Farm Wilson Coal Land Company Acres 9,937
Location (waters) Moses Fork
Well No. OLO #772, Wilson C.L.#48 Elev. 1228.62
District Lincoln County Wayne
The surface of tract is owned in fee by _____
Address _____
Coal Mineral rights are owned by State Conservation Comm.
Address Charleston 5, W.Va.
Drilling commenced 5-28-48
Drilling completed 7-12-48
Date Shot _____ From _____ To _____
With _____
Open Flow 54 /10ths Water in _____ 3 Inch
_____ /10ths Merc. in _____ Inch
Volume (Maxton) 519 M Cu. Ft.
Rock Pressure 357 lbs. 48 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			
16			Kind of Packer _____
13			
10			Size of _____
8 1/2 5/8	554'	554'	
6 5/8 7"	1533'	1533'	Depth set _____
5 3/16			
3 1/2 (Perf.)	11'	11'	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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil	-	-	0	25			
Sand	-	-	25	100			
Coal	-	-	100	104	Water	125'	Hole full
Slate	Blue	-	104	115			
Water Sand	-	-	115	130			
Slate	Blue	-	130	150	Water	150'	Stood 125'.
Sand	-	-	150	205			
Slate Shells	Dark	Hard	205	275			
Slate	Blue	-	275	298			
Shell	Gray	Hard	298	302			
Slate & Shell	Dark	Med.	302	335			
Slate	Blue	-	335	363			
Sand	Gray	Med.	363	437			
Slate	Dark	Soft	437	450	Water, level 425'		was 125'.
Slate & Shell	Dark	Med.	450	480			
Sand	Gray	Hard	480	505			
Slate & Shells	Dark	Med.	505	574			
Sand	Gray	Med.	574	617			
Slate	Black	Soft	617	634			
Shell	Black	Hard	634	642			
Slate & Shell	Dark	Soft	642	729			
Sand	Dark	Hard	729	762			
Slate	Light	Hard	762	910			
Slate & Shell	Light	Hard	910	940			
Sand	Light	Hard	940	960			
Slate	Dark	Soft	960	977			
Slate & Shells	Dark	Soft	977	1104			
Sand, broken	Dark	Hard	1104	1247	Water	1257'	2 Bail Hr.
Salt Sand	White	Hard	1247	1386	Water	1275'	Inc. to 3 Bail Hr.
Slate & Shell	Dark	Soft	1386	1495			
Lime Shell	Light	Hard	1495	1503	Water,		11/17/2023 Bailing every scrow
Sand	Light	Hard	1503	1515			
Slate	Light	Soft	1515	1533			
Slate & Shells	-	Hard	1533	1591			
Maxton Sand	White	Hard	1591	1624			
Total Depth				1624	Gas Gas pay	1592-1598 1598-1614	10 M 569 M



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
					Test before shot		7.7 M
					Shot 2-14-50 with 8700#		
					Detonite from 2543 to 3447		
					1 hr. after shot		366 M
					13 hrs. " "		140 M
					Ran 3193' of 3" tbg. but packer did not hold.		
					Reran tubing		
					Ran 2470" 3" tbg. on HW packer		
					Packer set 2470-2474		
					Top of tubing is 3' above floor, therefore, tubing is set on packer 2467-2471.		
					Test after tubing:		
					3" 8/10 W 2"		89 M Shale
					3" x 7" 20/10 W 1"		35 M Berea
							124 M
			Way	561			

11/17/2023

Date February 27, 1950

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By *A. H. Smith*
A. H. Smith (Title) Geologist



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Waynatech

WELL RECORD

Permit No. Wayne-561-D

Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4158, Charleston 4, W. Va.
Farm Wilson Coal Land Company Acres 9,937
Location (waters) Bark Camp Br. of Moses Fork
Well No. OLO No. 772, farm No. 48 Elev. 1228.6
District Lincoln County Wayne
The surface of tract is owned in fee by _____
Address _____

Coal Mineral rights are owned by State Conservation Commission
Address Charleston, W. Va.

Drilling commenced 1-9-50
Drilling completed 2-17-50
Date Shot 2-14-50 From 2543 To 3447
With 8,700# Detonite

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 124 M Cu. Ft.
Rock Pressure 400 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Oilwell Hook Wall
13			Size of
10			3 x 6-5/8 x 16
8 1/4			Depth set
6 5/8	1725	--	2467-2471 from top of casing.
5 3/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Began drilling deeper				1625			
Maxton Sand	Light	Hard	1591	1633			
Lime	Light	Hard	1633	1676			
Little Lime	Light	Hard	1676	1699			
Big Lime	Light	Hard	1699	1906			
Big Injun	Light	Med.	1906	1908			
Big Injun	Red	Hard	1908	1933			
Big Injun	Gray	Hard	1933	1963			
Shells	Gray	Hard	1963	1999			
Sl. & Shells	Light	Med.	1999	2067			
Lime Shells	Light	Hard	2067	2084			
Sl. & Shells	Light	Med.	2084	2102			
Sl. & Shells	Light	Soft	2102	2135			
Sl. & Shells	Light	Med.	2135	2372			
Slate	Light	Med.	2372	2442			
Shale	Dark	Soft	2442	2451			
Sand - Berea	Light	Hard	2451	2458			
Sand-- Berea	Light	Hard	2458	2558	Oil	2454'	Show
Brown Shale	Brown	Soft	2558	2618	Gas	2454'	3.0 M
Sl. & Shells	Light	Med.	2618	2859	Gas	2458'	4.3 M
Sl. & Shells	Dark	Med.	2859	2886			
Sl. & Shells	Dark	Soft	2886	2923			
Shale	Dark	Soft	2923	3017	Gas	2553'	3.9 M
Sl. & Shells	Light	Soft	3017	3110			
Shale	Dark	Soft	3110	3401	Gas	2618'	6.2 M
Slate	Light	Soft	3401	3447	Gas	2664'	6.6 M
Total Depth				3447			
Total Depth after shot				3191	Gas	2923'	11/17/2023 6.6 M
					Gas	3007'	6.6 M
					Gas	3194'	6.9 M
					Gas	3366'	8.5 M



BS

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. Way-561-D

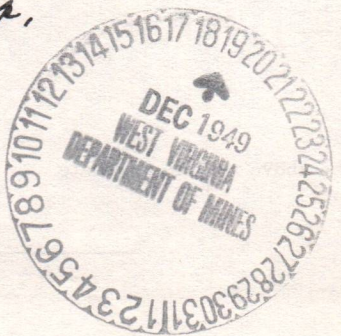
Oil or Gas Well Oil
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Owens-Libbey-Owens-Geo Ope</u>	Size			
Address <u>P.O. Box 4158, Charleston W.V.</u>	16			Kind of Packer
Farm <u>Nilson Coal Land Co.</u>	13			
Well No. <u>48.-Sr.-772.</u>	10			Size of
District <u>Lincolen</u> County <u>Wayne</u>	8 1/4			
Drilling commenced	6 5/8			Depth set
Drilling completed	5 3/16			
Date shot	3			Perf. top
Depth of shot	2			Perf. bottom
Initial open flow	Liners Used			Perf. top
/10ths Water in				Perf. bottom
Inch				
Open flow after tubing				
/10ths Merc. in				
Inch				
Volume	CASING CEMENTED	SIZE	No. FT.	Date
Cu. Ft.				
Rock pressure				
lbs.				
hrs.				
Oil	COAL WAS ENCOUNTERED AT	FEET	INCHES	
bbls., 1st 24 hrs.				
Fresh water	FEET	INCHES	FEET	INCHES
feet				
Salt water	FEET	INCHES	FEET	INCHES
feet				

Drillers' Names Burgess Mills - Walter Lowe.

Remarks:

Rigging up.



12-15-49
DATE

O.C. Allen
DISTRICT WELL INSPECTOR

11/17/2023

FEB 28 1979

RECEIVED

OIL & GAS DIVISION

DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-099-0561</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>009283</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>		<u>009283</u> Seller Code	
	<u>Charleston</u> City	<u>WV</u> State	<u>25325</u> Zip Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>NA</u> Field Name		<u>WV</u> State	
(b) For OCS wells:	<u>NA</u> Area Name	<u>NA</u> Block Number	Date of Lease: <u>Mo. Day Yr.</u>	
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Wilson Coal Land Co.</u>		<u>48-772</u>	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>NA</u>			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>See Addendum "A"</u> <u>Houdaille Industries, Inc.</u> Name		<u>N/Available</u> Buyer Code	
(b) Date of the contract:	<u>1 2 2 6 7 3</u> Mo. Day Yr.			
(c) Estimated annual production:	<u>4.4</u> MMcf.			
	(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>
9.0 Person responsible for this application:	<u>William C. Charlton</u> <u>Division Counsel</u> Name Title			
Agency Use Only	<u>William C. Charlton</u> Signature			
Date Received by Juris. Agency	<u>02 / 28 / 79</u> Date Application is Completed			
FEB 28 1979	<u>(304) 342-8166</u> Phone Number			
Date Received by FERC				

11/17/2023

DATE: OCT 17 1948

BUYER-SELLER CODE

PARTICIPANTS:

WELL OPERATOR: Industrial Gas Corporation 009283
FIRST PURCHASER: Houdaille Industries, Inc.
OTHER:

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

790278-108-099-0561

Use Above File Number on all Communications
Relating to Determination of this Well

Qualifies as Section 108 stippen well.
Robert [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 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) Date Commenced: 5-28-48 Deepened 1-9-50
 - (5) Date ~~Completed~~ Frac: 7-12-48 Deepened 2-14-50
 - (5) Production Depth: 2451-2458'; 2458-2558'; 2618-2859'; 2923-33
 - (5) Production Formation: Berea; Berea; Sl. & Shells; Shale, Sl & Shells
 - (5) Final Open Flow: shale
Initial Potentials 124 MCFD
 - (5) Static R.P. After Frac: 400 - 48 hrs.
 - (6) Other Gas Test: _____
 - (7) Avg. Daily Gas from Annual Production $\left(\frac{4452}{364}\right) = 12.2$ MCF
 - (8) Avg. Daily Gas from 90-day ending w/1-120 days $\left(\frac{1136}{85}\right) = 13.4$ MCF
 - (8) Line Pressure: 35 PSIG from Daily Report
 - (5) Oil Production: yes From Completion Report show @ 2454 11/17/2023
 - (10-17) Does lease inventory indicate enhanced recovery being done: No
 - (10-17) Is affidavit signed? Notarized?

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

Additional Information dd. 1625-3447 Does computer program confirm? _____

Was Determination Objected to? _____ By Whom? _____

589

DM

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

Date 02/28 19 79

Operator's Well No. 48-772

API Well No. 47 - 099 - 0561
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 1,228.62'

ADDRESS P. O. Box 1473

Charleston, WV 25325

Watershed Not Available

Dist. Linc. County Wayne Quad. Naugatuck

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.

11/17/2023

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.

11/17/2023

Charlotte I. Mathews
Notary Public

[NOTARIAL SEAL]



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.

11/17/2023

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 have qualified as 107.
47-005-1009 47-043-1409

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

FERC-121

RECEIVED
OCT 13 1981

1.0 API well number: (If not available, leave blank. 14 digits.)	47-099 - 0560			
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.)	N/A 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 P. O. Box 628 Street Charleston City		WV State	25322 Zip Code 000728 Seller Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Lincoln Field Name Wayne County		WV State	
(b) For OCS wells:	N/A Area Name		Block Number	
	Date of Lease: Mo. Day Yr.		OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Wilson Coal 48-772			
(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:	081779 Mo. Day Yr.			
(c) Estimated annual production:	4.3 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			11/17/2023
9.0 Person responsible for this application:	James R. Cramblett Name		Regional Manager Drilling & Prod. Title	
Agency Use Only	Signature James R. Cramblett			
Date Received by Juris. Agency OCT 13 1981	October 13, 1981 Date Application is Completed		(304) 344-8355 Phone Number	
Date Received by FERC				

PARTICIPANTS:

DATE: FEB 18 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
811013-107099-0561
 Use Above File Number on all Communications
 Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. All 80470
- 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: 5-28-48 Date completed 7-12-48 Deepened 2-17-50
- (5) Production Depth: 2454-2553, 2618-64, 2923-3007, 3194-3360
- (5) Production Formation: Berea, Sl. shells, Shale
- (5) Final Open Flow: 124 MCF
- (5) After Frac. R. P. 400 # 48 hrs.
- (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 Rep _____
- (5) Oil Production: yes From Completion Report 2454

10-17. Does lease inventory indicate enhanced recovery being done NO

10-17. Is affidavit signed? Notarized?

Does official well record with the Department confirm the submitted information? yes 11/17/2023

Additional information _____ Does computer program confirm? _____

Was Determination Objected to _____ By Whom? _____

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

WELL OPERATOR Cabot Oil & Gas Corp.
ADDRESS P. O. Box 628
Charleston, WV 25322
GAS PURCHASER Tennessee Gas Pipeline Co.
ADDRESS P. O. Box 2511
Houston, TX 77001

DESIGNATED AGENT James R. Cramblet
ADDRESS P. O. Box 628
Charleston, WV 25322
LOCATION: Elevation 1228.62'
Watershed Moses Fork
Dist. Lincoln County Wayne Quad
Gas Purchase Contract No. GSC140
Meter Chart Code N/A
Date of Contract 8/17/79

* * * * *
Date surface drilling began: May 28, 1948

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

$BHP = P_1 + P_1(eGL/53.34T-1)$

$P_1 = 193.2$ PSIA
 $T = 90^\circ$
 $G = .69$
 $L = 2995'$

$BHP = 207.7$ PSIA

AFFIDAVIT

I, Paul L. Gebhard, having been first sworn according to law, state that, the well is producing natural gas produced from the fractures, microplanes 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 outcrops 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 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
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 13th day of October, 19 81, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 13th day of October, 19 81.
My term of office expires on the 5th day of March, 19 89.

Lorene Miller
Notary Public

11/17/2023

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[NOTARIAL SEAL]

IV-39-WC
 STATE OF WEST VIRGINIA
 DEPARTMENT - MINES
 DIVISION - OIL AND GAS

ANNUAL REPORT OF MONTHLY PRODUCTION-1977
 GAS VOLUMES IN MFC @ 14.75
 OIL IN BARRELS @ 60 DEGREES
 OPERATOR - Industrial Gas Corporation

REPORT NO. CCA1011
 CURRENT DATE - 2/28/79
 REPORT DATE - 2/28/79
 PG 00002

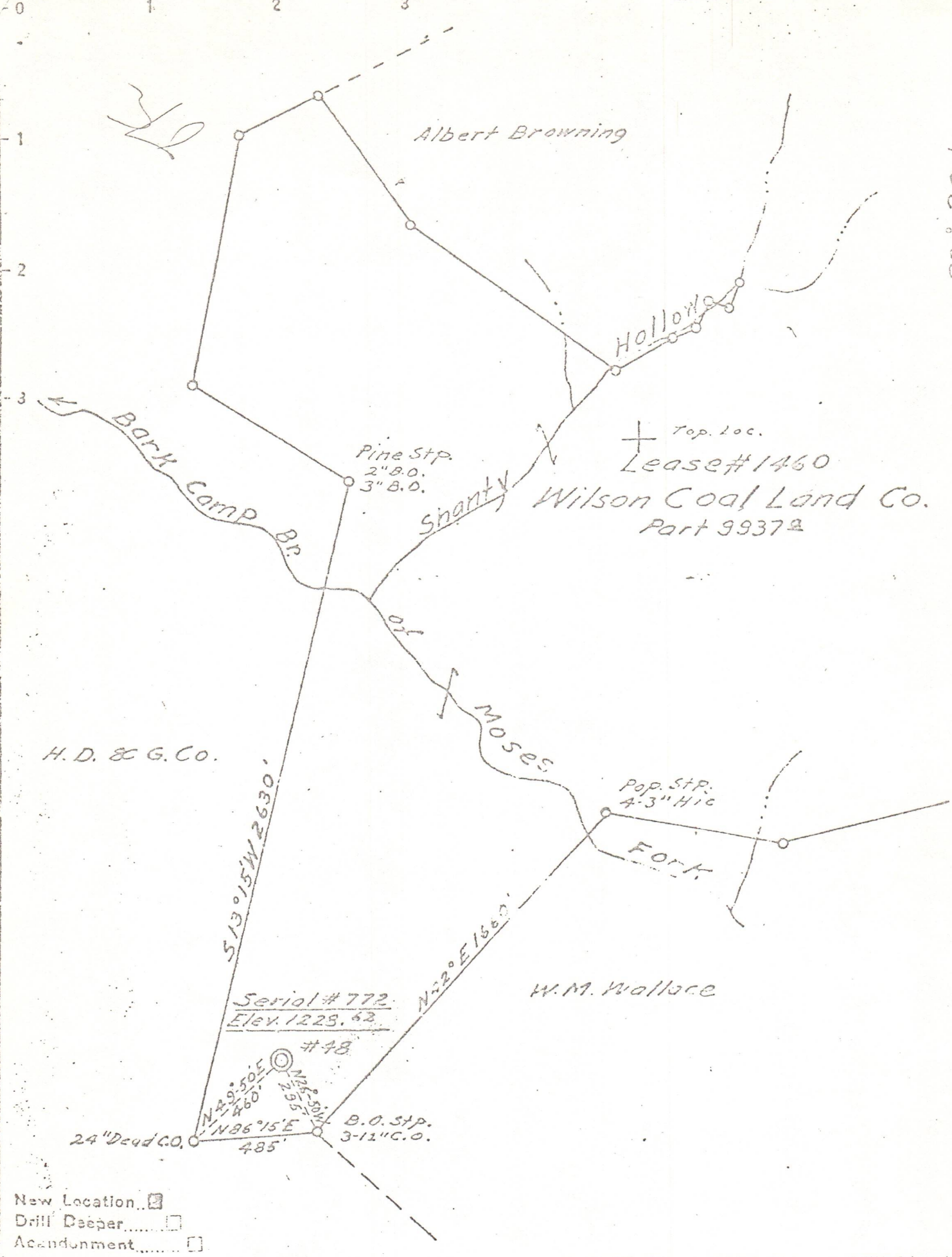
11/17/2023

1977	API	47-099-00561	FARM	Wilson Coal	48-772	COUNTY	Wayne	AVG. FLOW PRESSURE	37	SHUT-IN PRESSURE	NA	TOTALS	
GAS MFC	367	396	327	361	346	311	279	454	340	338	397	383	4299
OIL BBL	J- 30	F- 34	M- 27	A- 31	M- 32	J- 29	J- 27	A- 37	S- 30	0- 28	H- 31	D- 29	365
DAYS ONLINE	30	34	27	31	32	29	27	37	30	28	31	29	365
TOTALS													

1978	API	47-099-1321	47-099-0340	47-099-0341	47-099-0342	47-099-0490	47-099-0516	47-099-0633	47-099-0792	47-099-0793	47-099-1466	47-099-1487	47-099-1488	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	47-099-0871	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	47-099-0066	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	47-099-0504	47-099-0798	47-099-0824	47-099-0838	47-099-0641	47-099-0019	47-099-0015	47-099-1471	47-099-1337
GAS MFC	418	350	330	356	422	362	330	370	378	410	380	346	4452																																																																		
OIL BBL	J- 34	F- 30	M- 27	A- 31	M- 32	J- 29	J- 30	A- 31	S- 35	0- 27	H- 30	D- 28	364																																																																		
DAYS ONLINE	34	30	27	31	32	29	30	31	35	27	30	28	364																																																																		
TOTALS																																																																															

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.



- New Location
- Drill Deeper
- Abandonment

Company Owens, Libbey-Owens Gas. Dept.
 Address Box 4158 Charleston W. Va.
 Farm Wilson Coal Land Co.
 Tract _____ Acres .9937 Lease No. 1460
 Well (Farm) No. 48 Serial No. 772
 Elevation (Spirit Level) 1228.62
 Quadrangle Naugatuck 2.53.55"W 2.62"
 County Wayne, District Lincoln
 Engineer T.S. Flournoy
 Engineer's Registration No. 269
 File No. _____ Drawing No. _____
 Date Mar. 9, 1948 Scale 1 inch = 500 feet

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

WELL LOCATION MAP
 FILE NO. WAY-561

11/17/2023

+ 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.