

DEPARTMENT OF MINES OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

TO THE DEPARTM	ENT	of Mines,
Charleston,	W.	Va.

Charleston, W. Va. TO DEEPEN	WELL
State of West Virginia	OWENS, LIBBEY-OWENS GAS DEPARTMENT
COAL OPERATOR OR COAL OWNER	NAME OF WELL OPERATOR
State Conservation Commission Charleston - 5 - West Virginia	P. O. Box 4158, Charleston 4, W. Va.
ADDRESS	COMPLETE ADDRESS
	December 1, , 1949
COAL OPERATOR OR COAL OWNER	
	PROPOSED LOCATION
ADDRESS	Lincoln District
Owong Tibbox Owong Cos Dont	Wayne County
Owens, Libbey-Owens Gas Dept.	County
	Well No. 48 (Serial No. 772)
ADDRESS	Wilson Coal Land Company Farm
GENTLEMEN:	raim
The undersigned well operator is entitled to d	rill upon the above named farm or tract of land for
oil and gas, having fee title thereto, (or as the case	
December 17, 1936 madel	H. Rummel Anderson & Thomas B. by Jackson - Special Commissioners , to
Owens-Illinois Glass Co. & Libbey-Owens	Ford Glass Co. and recorded on the 23d
a Docombon 7026	n the office of the County Clerk for said County in
Book 188 , page L-33	and of the county clerk for said county in
The enclosed plat was prepared by a competent to be drilled for oil and gas by the undersigned well o and County above named, determined by survey and land marks.	engineer and shows the proposed location of a well perator on the farm and in the Magisterial District courses and distances from two permanent points, or
	and filed their mans as required by law excepting the
	if any) are notified that any objections they may are required to make by Section 3 of said Code, if see a dangerous condition in or about their respective ment of Mines within ten* days from the receipt of Department. Said coal operators are further notified furnished to them by the Department of Mines promptly as definitely as is reasonably possible the ground or
(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 slor on the same day with the mailing or delivery of	nown respective address day boxxx
Very tr	ruly yours,
199	OWENS, LIBBEY-OWENS GAS DEPARTMENT
DEC 1949 Address of of Well Operator	WELL OPERATOR
Address)	P. 0. Box 4158
of }	STREET
Well Operator	Charleston - 4 -
EL 020101 139	
CUCOLOR	W. Va.

*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.

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
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*			DEPARTM:	EVE DIALEDA	187 (188		
				What Vincinia	Date	August 20,	, 194 <u>8</u>

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By

A. H. McClain (Title) Geologist



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Wayne - 561

Margatuck

Oil or Gas Well Gas

Company OWENS	, LIBBEY	-OWENS GAS	DEPARTMENT	Casing and	Used in	Left in	D- albana
Address 5. 0.	Box 415	8, Charlest	on h. W. Va.	Tubing	Drilling	Well	Packers
Farm Wilso	on Coal I	and Company	Acres 9.937				
Location (waters)_				Size			And the second second
Well No. OLO				16		A	Kind of Packer
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The surface of tract			The state of the s	81/4 5/8	5541	5541	Size or
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With			Town The second	4 1			Perf. bottom
Open Flow 51,/1	10ths Water	in	3 Inch				
			Inch	CASING CEME	ented	SIZE	No. FtDat
Volume (Ma				0.22			
Rock Pressure							
				COAL WAS EN	NCOUNTERED	AT	FEETINCHES
Oil				क्रम्	rINCH	TER	FEETINCHES
Fresh water			feet				
Salt water		feet	feet	FEET	INCE	IES	FEETINCHES
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
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and	-	-	25	100			
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late	Blue	-	104	115			
ater Sand	-	-	115	130			
late	Blue	-	130	150	Water	1501	Stood 125'.
and	-	-	150	205			
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late	Blue	-	275	298			
hell	Gray	Hard	298	302			
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Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
TOTAL POPULATION OF THE POPULA	TOO TOTAL TOO TO THE T		Way	5915 5215 5725 5705 5001 5001 5001 7003 7003	Test before Shot 2-14-5 Detonite 1 hr. after 13 hrs. " Ran 3193' of not hold. Reran tubing Ran 2470" 3" Packer set 2 Top of tubin therefore, topacker 2467— Test after to 3" 8/3" x 7" 20/	shot 0 with 8700# from 2543 to shot " 3" tbg. but tbg. on HW 470-2474 g is 3' abov ubing is set 2471. ubing: 10 W 2" 10 W 1"	3447 366 M 140 M packer did packer
			artes de		Date		, 19

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner By A. H. Smith (Title)

MATHEWS PRINTING AND LITTINGRAPHING CO

Geologist



Navyatuck

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Casing and Tubing

Used in Drilling

Left in Well

Permit No. Wayne-561-D

Gas Oil or Gas Well (KIND)

		Charleston		Casing and Tubing	Used in Drilling	Left in Well	Packer	rs
		d Company						
		p Br. of Mos		Size	1			
		rm No. 48		16		THE RESIDENCE OF THE PARTY OF T	Kind of Packer	
		County Way		13			ilwell Ho	ok Wall
		fee by		10			Size of	
The Surface of the		Address		81/4			x 6-5/8	
Coal			tion Commissi		THE PARTY PROPERTY OF THE PARTY		Depth set	
williotat tignes at	e owned by	Address Charle	ston, W. Va.	5 3/16			2467-2471	. from
Drilling commend	700					1	top of ca	sing.
Drilling complete	Jua			2			Perf. bottom_	
Date Shot 2-1	-50 From	2543 то	3447	Liners Used]	Perf. top	
							Perf. bottom	
			Inch					
		in		CASING CEM	IENTED	SIZE NO	o. Ft	Date
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		lbs.				100		
				COAL WAS I	ENCOUNTERED	ATF	EET	INCHES
			feet	FEF	ETINCH	resF	EET	INCHES
Salt water			feet	FEH	ETINCH	IESF	EET	INCHES
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Rem	arks
		5010			02 11 202			
Began drilling	deeper			1625				
Maxton Sand	Light	Hard	1591	1633				
ime	Light	Hard	1633	1676				
Little Lime	Light	Hard	1676	1699				
Big Lime	Light	Hard	1699	1906 1908				
Big Injun	Light Red	Med. Hard	1908	1933				
Big Injun Big Injun	Gray	Hard	1933	1963				
Shells	Gray	Hard	1963	1999				
Sl. & Shells	Light	Med.	1999	2067	4 (2)			
ime Shells	Light	Hard	2067	2084	SH SH SH			-
Sl. & Shells	Light	Med:	2084	2102				
Sl. & Shells	Light	Soft	2102	2135	200 27.00	mark:		
Sl. & Shells	Light	Med.	2135	2372				
Slate	Light	Med.	2372	2442 2451	Eccion Conf.	TAT'		
Shale Sand - Berea	Dark Light	Soft Hard	2442 245 1	2451	herefore, 1	ALCOHOL: SE SE	nel on	
Sand - Berea	Light	Hard	2458	2558	Oil	24541	Show	
Brown Shale	Brown	Soft	2558	2618	Gas	24541		3.0 M
Sl. & Shells	Light	Med.	2618	2859	Gas	24581		4.3 M
Sl. & Shells	Dark	Med.	2859	2886				
Sl. & Shells	Dark	Soft	2886	2923	NOT NOTE:	07700		2036
Shale	Dark	Soft	2923	3017	Gas	25531	per logice of	3.9 M
Sl. & Shells	Light	Soft	3017 3110	3110	Gas .	26181		6.2 M
Shale Slate	Dark Light	Soft Soft	3401	3447	Gas .	26641		6.6 M
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Total Depth		1000000		3447	Long- series	00000 444	47/0000	6635
Total Depth a	fter shot	19303111	5.3	3191	Gas	2923' 11/	17/2023	6.6 M
		2/20	RA		Gas	30071		6.9 M
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		COSTA	(1	Over)				

STATE OF WEST VIRGINIA

OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

	2	1. 0
Permit No	Iray-	561-D

Oil or Gas Well

					(KIN	ID)	Keng in
Company Owens	Libber - Owens - X	Soo De	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKER	s had a
Address P.O. Bay 415	Ta.		Size				£ 20.417
Farm Wilson Co.	alfand la	maria.	16		201.00	Kind of Packer	r
Well No. 48 S.			13				
Distriction	1	me_	81/4			Size of	HARAGE One Michigan
Drilling commenced			65%			Depth set	
Drining commenced			5 3/16				
Drilling completed	Total depth		3			Perf. top	
Date shot	Depth of shot		2			Perf. bottom	
Initial open flow	/10ths Water in_	Inch	Liners Used			Perf. top	
Open flow after tubing	/10ths Merc. in	Inch				Perf. bottom	
Volume		Cu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressure	lbs.	hrs.					
Oil	bbls., 1s	st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	INCHES
Fresh water	feet	feet	FEET_	INCH	IES	FEET	INCHES
Salt water	feet	feet	FEET_	INCE	IES	FEET	INCHES
Drillers' Names Bu	raise mil	lo-	Walter	Laure			
Driners Names	<i></i>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			
Remarks:							
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DATE		A. 25.2	MOUCES BLY			11/17/20	523°

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No.					We	II No	
COMPANY			ADD	RESS			2 KF 049-07
FARM	21 (213) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DISTRIC	r obelo di	C	OUNTY		
Filling Material Used			es Z				
Liner Lo	cation	Amount		Packer	Location	1 1000,3,3	A Name of
PLUGS USED A	AND DEPTH PLACED			BRIDGES	CASIN	IG AND T	UBING
CEMENT-THICKNESS	WOOD-SIZE	1EAD	CONST	RUCTION-LOCATION	RECOVERED	SIZE	LOST
		ANNUAL TO THE PARTY	919	210	(4.1)	3-5	Educated I
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							11/3/11/21/21/21/21
	V 1000	- 11 The R		Service Control Control			11
Drillers' Names							
Remarks:	4,25-33				Salaka A.		man temper
DATE	I hereby certify I	visited the abo	ove well on	this date.			

FEB 2 8 1979

		1
1.0 API well number: (If not available, leave blank. 14 digits.)	47-099-0561	T & GAS DIVISIO
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	108 Category Coc	T. OF MIN
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.)	Industrial Gas Corporation Name P. O. Box 1473 Street Charleston City State Zip Coc	
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	
(b) For OCS wells:	NA Area Name Date of Lease: NA NA Block Num NA OCS Lease Numb	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Wilson Coal Land Co. 48-772	2
(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.)	See Addendum "A" Houdaille Industries, Inc.	N/Available Buyer Code
(b) Date of the contract:	1,2,2,6,7,3 Mo. Day Yr.	
(c) Estimated annual production:	4 , 4 MMcf.	
	(a) Base Price (b) Tax (c) All Other Prices [Indicated the content of the content	(d) Total of (a), (b) and (c)
7.0 Contract price: See Addendum "A" (As of filing date. Complete to 3 decimal places.)	1283 0051 0003	1 3 3 6
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.243 0.302 0.0	2.545
9.0 Person responsible for this application: Agen6¢ Use Only Date Received by Juris. Agency FEB 2 8 1979 Date Received by FERC	William C. Charlton Name Melliam C. Charlton Title Title Signature 02 / 28 / 79 Standard C. Charlton Title (304) 342-8	166

	Dace 02/28 .	1979
STATE OF WEST VIRGINIA	Operator's Well No. 48-772	
EPARTMENT OF MINES, OIL AND GAS DIVISION	API Well No. 47 - 099 -	U56

WELL CLASSIFICATION FORM

STRIPFER CAS 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	Watershed Not Available
Charleston, WV 25325	Dist. Linc. County Wayne Quad. Naugatuck
CAS 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.

FORM IV-56WC (Reverse) [12-78]

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 sworm 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.

Z-737/

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, 1985.

11/17/2023 Latle J. Markens

[NOTARIAL SEAL]



State of Mest Mirginia 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)

SECTION 107 OF CERTAIN WELLS IN)

BOONE, KANAWHA, LINCOLN, LOGAN)

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 radio-active 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.

GROUP I	Log No. 47-099-1697 as Exhibit No. 3 1% Non-Shale
47-099-0043 47-099-0341 47-099-0342 47-099-0490 47-099-0561	47-099-0598 47-099-0961 47-099-1274 47-099-1490
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 47-005-0675 47-005-0676 47-005-0808 47-005-0809 47-005-0924 47-005-1009	47-043-0183 47-043-0695 47-043-1110 47-043-1168 47-043-1171 Three (3) other wells in the area 47-043-1405 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 47-005-0371 47-005-0505 47-005-0842	47-005-0847 47-005-0851 47-005-0862 This group also used Log No. 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, Administrator

1

DE CANADO

	reno-12)	00718 1001	
1.0 API well number: (If not available, leave blank. 14 digits.)	47- 099 _ 056		
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	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 Corporatio Name P. O. Box 628 Street Charleston	WV 25322	000728 Seller Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	City Lincoln. Field Name Wayne County	State Zip Code WV State	
(b) For OCS wells:	N/A Area Name Date of Lease: Mo. Day Yr.	Block Number 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		018629 Buyer Code
(b) Date of the contract:	0 8 1 7 Mo. Day	7 9 Yr.	
(c) Estimated annual production:	4.3	MMcf.	
	(a) Base Price (b) Tax (\$/MMBTU)	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
'.0 Contract price: (As of filing date. Complete to 3 decimal places.)	110% of #2 Fuel Oil		-
3.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	130% of #2 Fuel Oil	11/	17/2023
Agency Use Only Date Received by Juris. Agency OT 13 1981	James R. Cramblett Name James R. Cramblett Signature	Regional Drilling Title	
Date Received by FERC	1001	(304) 344-8355 Phone Number	_

PARTIC	IPAN'S: > DATE: FEB 1 % 1982	BUYER-SELLER CODE
PETER SECURITION OF THE PETER	OPERATOR: Cabot Oil & Gas Corp.	060728
FIRST	PURCHASER: Tennessee Gas Pipeline Co.	018629
OTHER		
[wv	a. Department of Mines, Oil & Gas Division	
1	VELL DETERMINATION FILE NUMBER	
181	1013-102099=0561	
1	Above File Number on all Communications	
R	elating to Determination of this Well	
	CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM N	FERC -121 / Items not completed - Line No. All 8.0 +	21
	IV-1 Agent 1 James R. Cramblett	
3.		
4.	IV-6 Well Plat	commenced and the commenced decision of the commenced decision of the commenced decision is consequently and the commenced decision is consequently as a consequence of the commenced decision is consequently as a consequence of the commenced decision is consequently as a consequence of the commenced decision is consequently as a consequence of the conseq
5.		
	A CONTRACTOR OF THE PROPERTY O	
	IV-36 Gas-Oil Test: √Gas Only Was Oil Produced?	Ratio
	IV-39 Annual Production years	
8.	IV-40 90 day Production Days off line:	
	IV Form 51 52 53 54 55 56 57 58 Complete?	
	IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Aff	
10-20.	Other: Survey Logs Geological Charts Structure Map 1: 4000 Map Well Tab	
	Gas Analyses	19-50
(5)	Date commenced: 5-18-48 Date completed 7-12-48 Deeper	
(5)	Production Depth: 2454-2553, 2618-64, 2923-30	
	Production Formation: Berea, St. tshells Shale,	
(5)	Final Open Flow: 124MCF	
(5)	After Frac. R. P. 405 # 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	
	Line Pressure: PS	
(5)	Oil Production: yes From Completion Report 2454	
	Does lease inventory indicate enhanced recovery being done NO	
	Is affidavit signed? Notarized?	1/17/2023
oes of	ficial well record with the Department confirm the submitted informati	on? <u>yes</u>
Additio	nal information Does computer program confirm?	
vas Det	ermination Objected toBy Whom?	
		5

MINES, OIL AND GAS DIVISION Date Octo Operator's Wil API Well No. 47

No. 47

. 09

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

	"GPA Section 107 SHALE
WELL OPERATOR Cabot 011 & Gas Corp. ADDRESS P. O. BOX 620	ADDRESS P. O. Box Coamblet
P. O. Box 628 Charleston, WV 2532 ADDRESS	C: 50% 028
P. O. Roy and Pipelin	e Co. Gas D. Gas
# * * * * * * * * * * * * * * * * * * *	Meter Co GSC140
* May 20	* * * *
the bottom hole pressure of a	* * * *
$HP = P_1 + P_2(QQ)$	e well and explain how this

the well and explain how this was calculated: $BHP = P_1 + P_1(eGL/53.34T_{-1})$ $P_7 = 193.2$

$$P_1 = P_1 + P_1(eGL/53.34T_{-1})$$

$$P_1 = 193.2$$

$$T = 90^{\circ} PSIA$$

$$G = .69$$

$$L = 2995^{\circ}$$

$$PSIA$$

state that, the well is producing, having been first sworn according to law, and bedding planes of shales deposited during the Paleozoic Devonian Period as the Surface out and bedding planes of shales deposited during the Paleozoic Devonian Period as Crops around in the subsurface of the Appalachian Basin and in the surface out Mississippian Berea Sand or, if absent, that lies between the base of the Massin and the top of defined as that shale stratigraphic interval that lies between the base of the the Onondaga limestone formation or its chert equivalent, the top of the filing, the percentage of potentially disqualifying non-shale footage is group of carbonates. As shown by the pertinent portion of the gamma ray log attation of the gamma ray log attation interval. I have no knowledge of any information not included in the application gas well.

group of carbonates. As shown by the pertinent portion of the gamma ray log attation interval. I have percent (5%) of the gross Devonian age producing is natural gas well.

STATE OF WEST VIRGINIA, county of Kanawha _, TO WIT: I, Lorene Miller

do certify that Paul L. Gebhard, whose name is signed to the writing above, bearing date the 13th day of October ___, a Notary Public in and for the state and county aforesaid. aforesaid. _____, 19 87 , has acknowledged the same before me, in my country

Given under my hand and official seal this 13th day of March

[NOTARIAL SEAL]

STATE OF WEST VIRGINIA 1.31511.6 - 01: "HD CYS

IV-39-WC

ANNUAL REPORT OF MONTHLY PRODUCTION-1978

REPORT HO. CCA10 17/2023

CURRENT DA 17/2/28/79

REPORT DA 17/2/28/79

OIL IN DARRELLS & 60 DEGREES

OPERATOR 1 Industrial Gas Corporation

016 881 DAYS OHLIHE CAS MFC 47-099-00561 FARM I 1 30 367 Wilson Coal 48-772 396 327 361 COUNTY: Wayne 346 AVO. FLOW PRESSURE 37 279 7 454 5 340 SHUT-IN PRESSURE X. 0 1 5 4299 TOTALS 365

AVG. FLOW PRE 418 350 330 356 422 362 330 F- M- A- M- J- J- J- 34 30 27 31 32 29 30		m	c		
350 330 356 422 362 330 370 378 410 380 346 0.5 M-		34	1	418	
AVG. FLOW PRESSURE 35 SHUT-IN PRESSURE NA 356 422 362 330 370 378 410 380 346 0A5 A- M- J- J- A- S- 0- N- D- 0IL 31 32 29 30 31 35 27 30 28				350	
AVG. FLOW PRESSURE 35 SHUT-IN PRESSURE NA 422 362 330 370 378 410 380 346 0.5 M- J- J- A- 5- 0- H- D- 011 32 29 30 31 35 27 30 28		27	3	330	
AVG. FLOW PRESSURE 35 SHUT-IN PRESSURE NA 362 330 370 378 410 380 346 0.5 J- J- A- 5- 0- H- D- 010 29 30 31 35 27 30 28		31		1	
AVG. FLOW PRESSURE 35 SHUT-IN PRESSURE NA 362 330 370 378 410 380 346 0.5 J-		32	31	422	
35 SHUT-IN PRESSURE NA 378 410 380 346 0.5 5 0- N- D- 010 35 27 30 28		29	-		AVG
35 SHUT-IN PRESSURE NA 378 410 380 346 0.5 5 0- N- D- 010 35 27 30 28		30	J-	330	. FLOW PR
SHUT-IN PRESSURE NA 378 410 380 346 0.5 0- N- D- 010 35 27 30 28		31	٨-	370	1.
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0 0 % 2		30	1	380	RESSURE _
H >	Contraction Co. C.	28		346	NA
TOTALS 4452 364			010	> La	
		364		4452	TOTALS

1978

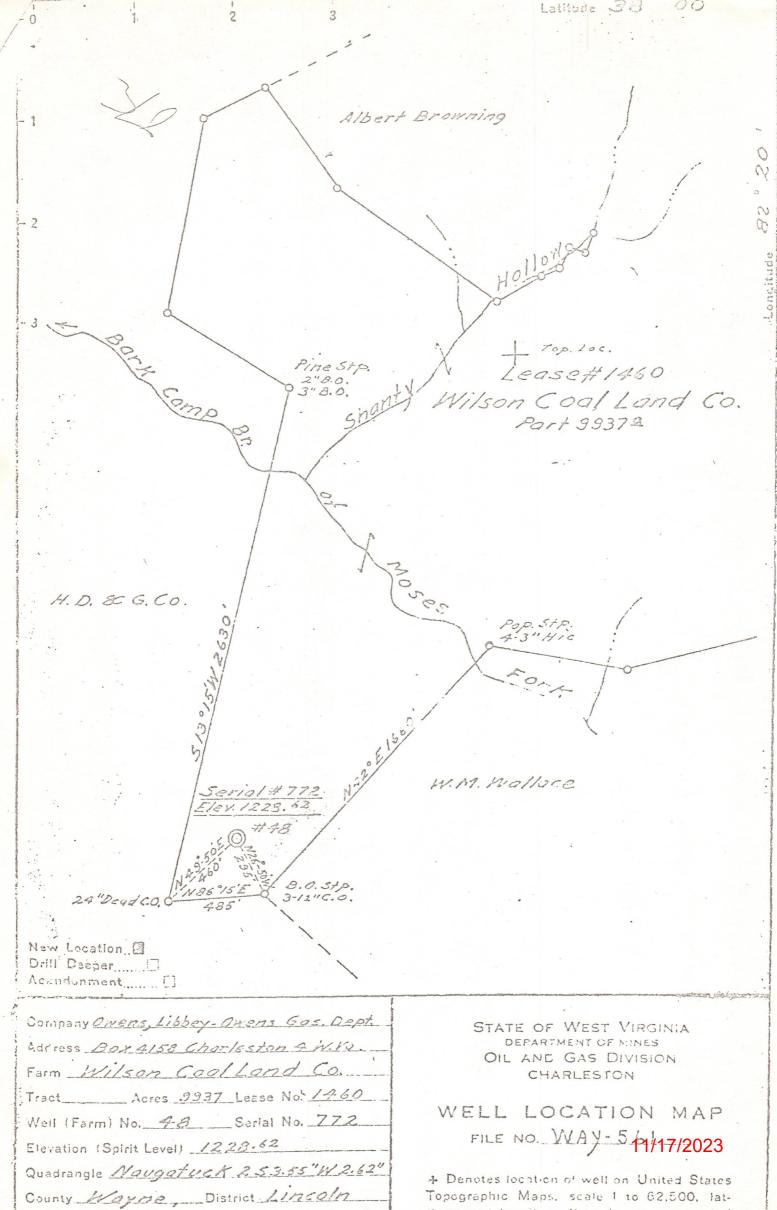
016 996 CAS MFC

DAYS OHLINE

SUMMARIZATION SCHEDULE Section 271. 804 (b)

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

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47-099-1508; 47-099-0561;
                                   47-099-0253;
                                                  47-099-1550;
                                                                    47-099-0001;
                                                                                     47-099-0856;
                                                                                                     47-099-0409;
                                                                                                                      47-099-0049;
                                                                                                                                           47-099-0397;
47-099-1466;
  47-099-0019;
                                                                                                                                                                           API NUMBERS
                                  47-099-0260;
 47-099-0015;
                                                                   47-099-0037;
                                                                                                    47-099-0434;
                                                                                                                                          47-099-0210; 47-099-0230; 47-099-0560; 47-099-0753; 47-099-0761; 47-099-1487; 47-099-1488; 47-099-1490; 47-099-1491; 47-099-1495;
                                                  47-099-1551;
                                                                                    47-099-0862;
                                                                                                                      47-099-0036; 47-099-0193;
                                                                                                                                                                        47-099-1321; 47-099-0340; 47-099-0341; 47-099-0342; 47-099-0490;
              47-099-0598; 47-099-0304;
47-099-1471; 47-099-1337
                                47-099-0854;
                                                 47-099-0043;
                                                                  47-099-0041
                                                                                                                                      47-099-1488;
                                                                                   47-099-0961;
                                                                                                    47-099-0487;
                                 47-099-1291;
                                                 47-099-0038;
                                                                  47-099-0021;
                                                                                    47-099-0981;
                                                                                                                     47-099-0312;
                                                                                                     47-099-0584
                                                                                                                                      47-099-1490
              47-099-0798; 47-099-0824; 47-099-0838;
                                47-099-0972;
                                                47-099-0050;
                                                                  47-099-0015;
                                                                                 47-099-1274;
                                                                                                   47-099-0819;
                                                                                                                    47-099-0328;
                                                                                                                                    47-099-1491;
                                47-099-1486;
                                                47-099-0877;
                                                                                   47-099-0790;
                                                                                                                                    47-099-1495;
                                                                                                   47-099-0820;
                                                                                                                    47-099-0330;
                                                                  47-099-0013
                               47-099-1464;
                                                                                                                                                    47-099-0792;
                                                                                47-099-0634;
                                                                                                                                                                        47-099-0516;
                                               47-099-0066;
                                                                47-099-0053;
                                                                                                                                     47-099-1500;
                                                                                                  47-099-0871;
                                                                                                                   47-099-0347;
             47-099-0641
                              47-099-1499
                                               47-099-0247
                                                               47-099-1548
                                                                              47-099-0019
                                                                                                 47-099-0853
                                                                                                                   47-099-0382
                                                                                                                                                    47-099-0793
                                                                                                                                                                       47-099-0633
                                                                                                                                   47-099-1507
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Date Mar. 9, 1948 Scale Linch = 500 feet

Engineer T.S. Flournoy

Engineer's Registration No. 269

____ Drawing No.

- Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border ine of original tracing.