



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.

None
COAL OPERATOR OR COAL OWNER

ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

United Fuel Gas Co.
OWNER OF MINERAL RIGHTS

P. O. Box 1273, Charleston 25, W. Va.
ADDRESS

United Fuel Gas Co.
NAME OF WELL OPERATOR

c/o G. H. Moore
P.O. Box 1273, Charleston 25, W. Va.
COMPLETE ADDRESS

January 19, 19 49

PROPOSED LOCATION
Grant District

Wayne County

Well No. 6474 38° 05'
83° 15'
United Fuel Gas Co.
Mineral Tract No. 1 Farm

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~~ deed dated December 26, 1946, made by Huntington Dev. & Gas Co., to United Fuel Gas Co., and recorded on the 27th day of December, 1946, in the office of the County Clerk for said County in Book 234, page 318.

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.

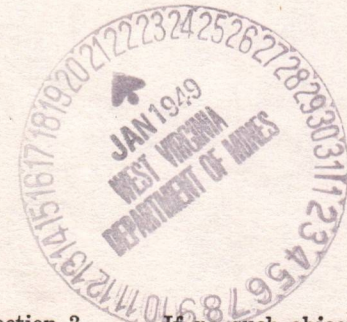
The undersigned well operator is informed and believes there are no coal operators operating beds of coal beneath said farm or tract of land on which said well is located, or within 500 feet of the boundaries of the same, who have mapped their workings and filed their maps as required by law, excepting 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,



Address of Well Operator }

United Fuel Gas Co.
WELL OPERATOR
c/o G. H. Moore
STREET
P. O. Box 1273, Charleston 25,
CITY OR TOWN 11/17/2023
West Virginia
STATE

*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.

651

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
White Slate			2840	2865	Shale Gas	3045-3057'	5/10 W 2" 94 M
Br. Shale			2865	3100			
White Slate			3100	3110			
Total Depth			3110'				
							Test before shot 3/10 W 2" 73 M Shot 6-17-49 with 500# Det. 1500-1540 Test 20/10 W 2" 189 M Test before 2nd shot 5/10 W 2" 94 M Shot 7-28-49 with 5000# Gel. 2338-311 Test after shot 14/10 W 2" 158 M <u>OPEN FLOW</u> - 189 M - Injun 48 Hr.R.P. 390# 158 M - Shale 48 Hr.R.P. 345# Shut in 8-3-49 in 2" Tubing

11/17/2023

Date September 2, 1949

APPROVED United Fuel Gas Co., Owner

By [Signature]
Chief Engineer (Title) R



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Wayne

WELL RECORD

Permit No. WAY-651

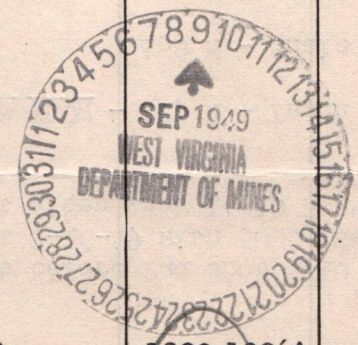
Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Co.
Address P. O. Box 1273, Charleston 25, W. Va.
Farm U.F.G. Co. Min. Tr. #1 Acres 38,448.03
Location (waters) Cann Hollow of 12 Pole Cr.
Well No. 6474 Elev. 912.01
District Grant County Wayne
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by United Fuel Gas Co.
P. O. Box 1273 Address Chas. 25, W. Va.
Drilling commenced 5-10-49
Drilling completed 7-26-49
Date Shot 6-17-49 From 1500 To 1540
With 7-28-49 500# Det. 2338 5000# Gel
Open Flow 20 & 14/10ths Water in 2 Inch
_____/10ths Merc. in _____ Inch
Volume 189 M-Injun, 158M - Shale Cu. Ft.
Rock Pressure 390, 345 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 120, feet feet
Salt water 860, 880 feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Hookwall
13			Size of
10	13	13	2"X5-3/16"X16"
8 1/4	224	224	Depth set <u>1885</u>
6 5/8	1416	1416	Perf. top
5 3/16	1558	1558	Perf. bottom
3			Perf. top
2 Tubing		2843	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
Surface			0	25			
Sand			25	65			
Slate			65	70			
Sand			70	130	Water	120	4 B.P.H.
Slate			130	215			
Sand			215	230			
Slate			230	490			
Sand			490	505			
Slate			505	530			
Sand			530	560			
Slate			560	630			
Sand			630	665			
Slate			665	770	Water	860	
Salt Sand			770	1050	Water	880	Hole full
Slate			1050	1060			
Salt Sand			1060	1100			
Black Slate			1100	1110			
Sand			1110	1125			
Slate & Shells			1125	1173			
Maxon Sand			1173	1183			
Slate			1183	1200			
Lime Shells			1200	1215			
Maxon Sand			1215	1262			
Little Lime			1262	1288			
Pencil Cave			1288	1290			
Big Lime			1290	1312			
Broken Lime			1312	1325	Gas	1392-1396'	
Big Lime			1325	1474	Injun Gas	1510-1522'	12/10 W 2" 146
Red Rock			1474	1500			
Grey Injun			1500	1540			
Slate & Shells			1540	2060			
Brown Shale			2060	2070	Gas	2073'	Show in Berea
Berea Sand			2070	2103			
Slate & Shells			2103	2145			
Brown Shale			2145	2200			
White Slate			2200	2560	Gas	2495-2502'	12/10 W 1" 37M
Dark Slate			2560	2765			Decreased to 8/10 W 1"
Brown Shale			2765	2840			30 M



11/17/2023

1.0 API well number. (If not assigned, leave blank 14 digits.)	<u>47-099-00651-</u>								
2.0 Type of determination being sought (Use the codes found on the front of this form.)	<u>107 DV</u> Section of NGPA		<u> </u> Category Code						
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)	<u>3110</u> feet								
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	<u>Columbia Gas Transmission Corporation</u> Name <u>P. O. Box 1273</u> Street <u>Charleston</u> City		<u>WV</u> State	<u>004030</u> Seller Code <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>WU Field Area B</u> Field Name <u>Wayne</u> County								
(b) For OCS wells	<u>NA</u> Area Name		<u> </u> Block Number						
(c) Name and identification number of this well (35 letters and digits maximum.)	<u>TCO Min. Tr. No. 1</u>		<u>806474</u> OCS Lease Number						
(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>*</u> Name		<u>004030</u> Buyer Code						
(b) Date of the contract:	<u> </u> Mo. Day Yr. *								
(c) Estimated total annual production from the well	<u>10</u> Million Cubic Feet								
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	S/MMBTU	(a) Base Price <u> </u>	(b) Tax <u> </u>	(c) All Other Prices (Indicate (+) or (-).) <u> </u>	(d) Total of (a), (b) and (c) <u> </u>				
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>De-reg</u>	<u> </u>	<u> </u>	<u> </u>				
9.0 Person responsible for this application:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%; text-align: center;">Agency Use Only</td> <td rowspan="3" style="vertical-align: top;"> <u>Albert H. Mathena, Jr., Director, Production Eng.</u> Name <u>Albert H. Mathena</u> Signature <u>5-20-82</u> Date Application is Completed </td> <td rowspan="3" style="vertical-align: top;"> <u> </u> Title <u>(304) 346-0951</u> Phone Number </td> </tr> <tr> <td style="text-align: center;">Date Received by Juris. Agency <u>JUN 3 - 1982</u></td> </tr> <tr> <td style="text-align: center;">Date Received by FERC</td> </tr> </table>				Agency Use Only	<u>Albert H. Mathena, Jr., Director, Production Eng.</u> Name <u>Albert H. Mathena</u> Signature <u>5-20-82</u> Date Application is Completed	<u> </u> Title <u>(304) 346-0951</u> Phone Number	Date Received by Juris. Agency <u>JUN 3 - 1982</u>	Date Received by FERC
Agency Use Only	<u>Albert H. Mathena, Jr., Director, Production Eng.</u> Name <u>Albert H. Mathena</u> Signature <u>5-20-82</u> Date Application is Completed	<u> </u> Title <u>(304) 346-0951</u> Phone Number							
Date Received by Juris. Agency <u>JUN 3 - 1982</u>									
Date Received by FERC									

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

11/17/2023

**U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426**

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)
(Sections 102, 103, 107 and 108)**

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date (Mo. Day Yr.)</u>	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

11/17/2023

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. 806474

API Well No.

47 - 099 - 00651
State County Permit

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

DESIGNATED AGENT James L. Weekley

ADDRESS P. O. Box 1273
Charleston, WV 25325

LOCATION Elevation 912.01
Watershed _____

WELL OPERATOR Columbia Gas Trans. Corp.

ADDRESS P. O. Box 1273
Charleston, WV 25325

Dist. Stonewall County Wayne Quad. _____

Gas Purchase Contract No. N.A.

GAS PURCHASER N.A.

ADDRESS _____

Meter Chart Code _____

Date of Contract N.A.

This is a pipeline production well and no gas purchase contract exists.

Date surface drilling began: 5-10-1949

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

See Supplement

AFFIDAVIT

I, Albert H. Mathena, Jr., having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Albert H Mathena Jr

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA, TO-WIT:

I, Larry G. Berdette, a Notary Public in and for the state and county aforesaid, do certify that Albert H. Mathena, Jr., whose name is signed to the writing above, bearing date the 20 day of May, 1982, has acknowledged the same before me, in my county aforesaid. 11/17/2023

Given under my hand and official seal this 20 day of May, 1982.
My term of office expires on the 13 day of August, 1989.

Larry G Berdette
Notary Public

(NOTARIAL SEAL)

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

Date 5-20, 19 82

Operator's Well No. 806474

API Well No. 47 - 099 - 00651
State County Permit

Previous File No. _____
(If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Columbia Gas Trans. Corp.

DESIGNATED AGENT James L. Weekley

ADDRESS P. O. Box 1273

ADDRESS P. O. Box 1273

Charleston, WV 25325

Charleston, WV 25325

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

Meter Chart Code _____

Name of First Purchaser NA*

(Street or P. O. Box)

(City)

(State)

(Zip Code)

FERC Seller Code NA*

FERC Buyer Code NA*

TYPE OF DETERMINATION BEING SOUGHT:

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

*This well is a pipeline production and no gas purchase contract exists.

Albert H. Mathena, Jr. Director, Production Engineering
Name (Print) Title

Albert H. Mathena Jr
Signature

P. O. Box 1273
Street or P. O. Box

Charleston WV 25325
City State (Zip Code)

304 346-0951
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

A copy of this filing is being retained by Columbia Gas Transmission Corporation, owner and operator of the identified well.

(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

JUN 3 - 1982

Date received by _____
Jurisdictional Agency

By [Signature] Director
Title _____ 11/17/2023



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

WALTER N. MILLER
 DIRECTOR

THEODORE M. STREIT
 ADMINISTRATOR

BEFORE THE OFFICE OF OIL AND GAS
 OF THE DEPARTMENT OF MINES
 OF THE STATE OF WEST VIRGINIA

IN THE MATTER OF THE APPLICATIONS)
 OF COLUMBIA GAS TRANSMISSION)
 CORPORATION REQUESTING CLASSI-)
 FICATION UNDER SECTION 107 OF THE)
 NATURAL GAS POLICY ACT OF CERTAIN)
 WELLS IN BOONE, CABELL, JACKSON,)
 KANAWHA, LINCOLN, LOGAN, MINGO)
 AND WAYNE COUNTIES, WEST VIRGINIA.)

CAUSE NO. 33

ORDER NO. 1

REPORT OF THE OFFICE

This cause came before the Administrator of the Office of Oil and Gas on June 28, 1982, at 1:00 p.m., in Conference Room C, Capitol Conference Center, Charleston, West Virginia, after giving notice of hearing as required by law on the applications of Columbia Gas Transmission Corporation for certification of certain wells in Boone, Cabell, Jackson, Kanawha, Lincoln, Logan, Mingo and Wayne Counties as Devonian Shale wells under Section 107(c)(4) of the Natural Gas Policy Act.

FINDINGS OF FACT

1. Applicant is an operator within the meaning of paragraph (w) of Chapter 22-4-1.
2. Applicant has made filings for certification pursuant to Rule 34.04.
3. The Natural Gas Policy Act (NGPA) in Section 107, Ceiling Price For High-Cost Natural Gas--(c) Definition of High-Cost Natural Gas-- "For purposes of this section, the term "high-cost natural gas" means natural gas determined in accordance with Section 503 to be....(4) produced from Devonian Shale."
4. The Federal Energy Regulatory Commission (FERC) by Rule 272.101-(c) prescribes the method by which the jurisdictional agency may determine gas produced from Devonian Shale.
5. Exhibits refer to evidence gathered at a public hearing held June 28, 1982.

11/17/2023

6. Exhibits No. 2 and 3 lists the wells to be under consideration for Section 107 pricing. All these wells are located on Exhibits No. 4 and 5 and have been completed in the Devonian Shale.

7. Applicant, by letter dated June 25, 1982 (Exhibit No. 3) requested that eight (8) of the wells listed on Attachment A be stricken from the docket for hearing and they have been withdrawn.

8. Exhibit No. 6 shows random sampling of already qualified Devonian Shale wells.

9. Various cross-sections throughout the interval show gamma ray logs of the wells (see Exhibits Nos. 7, 8 and 9).

10. No well has any non-shale greater than 5% in the Devonian interval penetrated.

11. No gamma ray logs are available on these wells since they were all drilled before logging was common in West Virginia.

CONCLUSION OF LAW

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

NOW, therefore, based on the aforementioned Findings of Fact and Conclusion of Law, it is found by the Administrator that Columbia Gas Transmission Corporation's applications for classification under Section 107 of the Natural Gas Policy Act for certain wells in Boone, Cabell, Jackson, Kanawha, Lincoln, Logan, Mingo and Wayne Counties, identified in Attachment A, are approved.

The Office of Oil and Gas further incorporates the Report of the Office and Findings of Fact and Conclusion of Law dated June 28, 1982, as if the same were fully set forth and includes hereto the Report of the Office and Findings of Fact and Conclusion of Law as a part of this Order.

Entered this 12th day of July, 1983.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
OF THE DEPARTMENT OF MINES
OF THE STATE OF WEST VIRGINIA

By: 

Theodore M. Streit, Administrator 11/17/2023

COLUMBIA GAS TRANSMISSION CORPORATION

WELL NO. 806474

SUPPLEMENT:

METHOD OF CALCULATION OF BOTTOM HOLE PRESSURE

$$PBH = PMH + PMH (E**0.0000347*G*L - 1.)$$

WHERE:

PBH = BOTTOM HOLE PRESSURE (PSIA)

PMH = WELLHEAD PRESSURE (PSIA)

G = SPECIFIC GRAVITY OF GAS

L = DEPTH TO MIDDLE OF PERFORATIONS (FT.)

= 359.7

= 0.7170

= 2724

STEPS:

$$PBH = 359.7 + 359.7 (E**0.0000347*1953.108 - 1.)$$

$$PBH = 359.7 + 359.7 (E**0.067773 - 1.)$$

$$PBH = 359.7 + 359.7 (1.07012 - 1.)$$

$$PBH = 359.7 + 359.7 (0.070)$$

$$PBH = 359.7 + 25.2$$

$$PBH = 384.9 \quad (PSIA)$$

UNITED FUEL GAS COMPANY
COMPANY

SERIAL WELL NO. 6474

LEASE NO. Ref: 24689

MAP SQUARE 24-39

RECORD OF WELL NO. <u>6474</u> on the	CASING AND TUBING				TEST BEFORE SHOT
FG Co. Min. Tr. #1 farm of <u>38448.03</u> Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	1st = <u>3/10 W-2W</u>
in <u>Grant</u> District	<u>10"</u>	<u>32.75#</u>	<u>13110"</u>	<u>13110"</u>	d = <u>5/10 of Water in... 2</u>
<u>Wayne</u> County	<u>8-1/4"</u>	<u>24#</u>	<u>22418"</u>	<u>22418"</u>	/10 of Merc. in... 1st = <u>73 MCF</u>
State of: <u>West Virginia</u>	<u>6-5/8"</u>	<u>20#</u>	<u>142711"</u>	<u>142711"</u>	Volume 2nd = <u>94 MCF</u>
Field: <u>Branchland</u>	<u>5-3/16"</u>	<u>14#</u>	<u>156811"</u>	<u>None</u>	TEST AFTER SHOT
Rig Commenced <u>By Contractor</u> 194	<u>2"</u>	<u>3.75#</u>	<u>284310"</u>	<u>284310"</u>	1st = <u>19/10 W-2W</u>
Rig Completed <u>By Contractor</u> 194					d = <u>14/10 of Water in... 2</u>
Drilling Commenced <u>May 10,</u> 194 <u>9</u>					/10 of Merc. in... 1st = <u>189 MCF</u>
Drilling Completed <u>July 26,</u> 194 <u>9</u>					Volume 2nd = <u>158 MCF</u>
Drilling to cost <u>\$2.75 & \$2.90</u> per foot					<u>48</u> Hours After
Contractor is: <u>F. M. Kicks</u>					Rock Pressure <u>In Jun - 390</u>
Address: <u>Huntington, W. Va.</u>	SHUT IN				Date Shot <u>1st = 6/18/49</u>
					2nd = <u>7/28/49</u>
Driller's Name <u>Koe Walls</u>	<u>2 1/2</u> in.				Size of Torpedo <u>1st = 500</u>
<u>Cabell Miller</u>					Oil Flowed <u>2nd = 5000</u> bbls. 1st 24
	Size of Packer <u>2" X 5-3/16" X 16"</u>				Oil Pumped <u>1st 24</u> bbls.
	Kind of Packer <u>Hookwell</u>				Well abandoned and
	1st. Perf. Set. <u>2825</u> from <u>2803</u>				Plugged <u>194</u>
Elevation: <u>912.01</u>					2nd Perf. Set. <u>2558</u> from <u>2537</u>

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Surface	0	25	25	
Sand	25	65	40	
Slate	65	70	5	
Sand	70	130	60	Fresh Water at 120' - 4 barrels per hour
Slate	130	215	85	
Sand	215	230	15	
Slate	230	490	260	
Sand	490	505	15	
Slate	505	530	25	
Sand	530	560	30	
Slate	560	630	70	
Gas Sand	630	665	35	
Slate	665	770	105	
Salt Sand	770	1050	280	Water at 860'
Slate	1050	1060	10	Hole full water at 880'
Salt Sand	1060	1100	40	
Black Slate	1100	1110	10	

APPROVED
[Signature]

SERIAL WELL NO. 6474

LEASE NO. Ref: 24689

MAP SQUARE 24-39

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Sand	1110	1125	15	
Slate & Shells	1125	1173	48	
Maxen Sand	1173	1183	10	
Slate	1183	1200	17	
Lime Shells	1200	1215	15	
Maxen Sand	1215	1262	47	
Little Lime	1262	1288	26	
Pencil Cave	1288	1290	2	
Big Lime	1290	1318	22	
Broken Lime	1312	1325	13	
Big Lime	1325	1474	149	Show of Gas in Big Lime from 1392' to 1398'
Red Rock	1474	1500	26	7" OD Casing Point 1418' SLM
Grey Injun	1500	1540	40	5-3/16" Casing Point 1558' SLM
Slate	1540	1556	16	Gas at 1510' - 1522 - 12/10 W-2"
Shell	1556	1582	26	Gas at 1522' - 1532 - 12/10 W-2"
Slate	1582	1605	23	Gas at 1532' - 1544 - 11/10 W-2"
Shell	1605	1620	15	
Slate & Shells	1620	1740	120	
Hard Shells	1740	1755	15	
Slate & Shells	1755	1875	120	
Shell	1875	1903	28	
Slate	1903	2038	135	
Hard Shell	2038	2048	10	
Slate	2048	2060	12	
Brewa Shale	2060	2070	10	
Berea Sand	2070	2103	33	Show of gas at 2073'
Slate & Shells	2103	2145	42	
Brewa Shale	2145	2200	55	
White Slate	2200	2560	360	
Dark Slate	2560	2765	205	Gas in White Slate 2495' to 2502' - 12/10
Brown Shale	2765	2840	75	Blew down to 8/10 W-1" at 3040'
White Slate	2840	2865	25	Gas pay 3045' to 3057' - 5/10 W-2"
Brown Shale	2865	3100	235	
White Slate	3100	3110	10	
Total Depth	3110			

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[Signature]

Devonian Shale - 2103' to 3110'

Total Shale - 1007'

no sand logged
no electric log

Mary S. Friend
Geologist

11/17/2023

June 18

19 49

Mr. J. R. Hussey, Div. Supt.

Well No. 674 (Serial No.) on U.F.G.Co.Min.Tr.#1 Farm

Was shot this date with 500# Detonite quarts

Number of Shells 5000

Length of Shells 5" X 6 1/2"

Top of Shot 1500'

Bottom of Shot 1540'

Top of Injun Sand 1500' feet
(Name of Sand)

Bottom of Injun Sand 1540' feet
(Name of Sand)

Total Depth of Well 3110'

Results: before shot - 3/10 W-2" (73 MCF)

after shot - 19/10 W-2" (189 MCF)

Remarks:

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Signed J. R. Hussey District Supt.

NOTE-When a well is shot this form must be filled out and sent to the General Superintendent.

11/17/2023

July 28,

19 49

Mr. J. R. Hussey, Div. Supt.

Well No. 6474 (Serial No.) on U.F.G.CO.MIN.TR.#1 Far

Was shot this date with 5000# Galatin quar

Number of Shells _____

Length of Shells 4-1/4" X 10 1/8

Top of Shot 2338'

Bottom of Shot 3110'

Top of White Slate Sand 2338' (Name of Sand) fe

Bottom of Brown Shale Sand 3110' (Name of Sand) fe

Total Depth of Well 3110'

Results: before shot - 5/10 W-2V - (188 94 M)

After shot - 14/10 W-2V - (158 WCF)

Remarks: _____

RECEIVED
AUG 29 1949
DIVISION SUPT.

Signed [Signature] District Supt.

NOTE-When a well is shot this form must be filled out and sent to the Gen Superintendent.

11/17/2023