



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
DRILL DEEPER
WELL RECORD

Quadrangle Naugatuck
Permit No. 1198

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Co.
Address P. O. Box 1273; Charleston 25, W. Va.
Farm Caldwell & Clark Acres 1657.84
Location (waters) Lick Br. of Tug River
Well No. 4497 Elev. 606.81'
District Lincoln County Wayne
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Wayne County Land & Mineral
Howard F. Meek Address Huntington, W. Va.
Suite 1200 First Huntington Natl. Bk. Bldg.
Drilling commenced _____
Drilling completed May 12, 1922
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

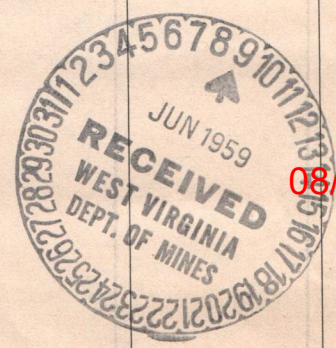
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			
13			Size of _____
10			
8 1/4			Depth set _____
6 5/8			
5 3/16			Perf. top _____
3			Perf. bottom _____
2			Perf. top _____
Liners Used			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT _____
 ROCK PRESSURE AFTER TREATMENT _____
 Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Gas			1202	1205	Big Lime 100/10 water 2".		
Injun			1270	1305			
Berea			1802	1891	Going to tube well and supply town of		
Big Lime			1080	1270	Crum with gas.		
Total Depth				2000'			
Purchased from Old Colony Oil & Gas Co. Sept. 2, 1930							



08/25/2023

(over)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL AND GAS DIVISION
- DRILL DEEPER -

Quadrangle Naugatuck

Permit No. WAY-1198-D

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address P.O. Box 1273; Charleston 25, W. Va.
Farm Caldwell & Clark Acres 1657.84
Location (waters) Lick Br. of Tug River
Well No. 4497 Elev. 606.81
District Lincoln County Wayne
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Wayne County Land & Mineral Co.
c/o Howard F. Meek Address Suite 1200 First Huntington Natl Bank Bldg.
Huntington, W. Va.
Drilling commenced 8-24-59
Drilling completed 8-29-59
Date Shot 9-2-59 From 2086 To 2715
With 4,066-1/2# Ind. Gelatin
Open Flow 2 /10ths Water in 1 - Big Lime Inch
16 /10ths Merc. in 2 - Br. Shale Inch
Volume 184,000 - Big Lime -15M; Cu. Ft.
Br. Shale - 169 M
Rock Pressure 155 lbs. 48 hrs.
140 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Anchor
13			Size of
10			2-3/8" x 5 1/2"
8 1/4			Depth set
5 3/4		1138'	1875'
3			Perf. top
2 3/8		2686	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

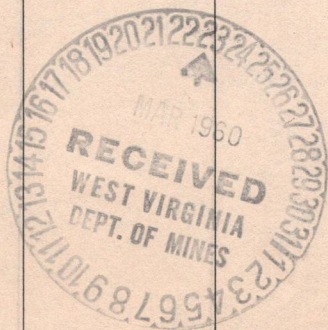
CASING CEMENTED	SIZE	No. Ft.	Date
COAL WAS ENCOUNTERED AT		FEET	INCHES
	FEET	INCHES	FEET
	FEET	INCHES	FEET

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Gray Shale			2090	2192	When drilling commenced - not enough gas to gauge		
Brown Shale			2192	2320			
Gray Shale			2320	2392			
Brown Shale			2392	2470	Gas 2502' 1/10 W 1" 11 M		
Gray Shale			2470	2491			
Brown Shale			2491	2700	Gas 2575' 3/10 W 1" 18 M		
Slate			2700	2715			
Total Depth			2715'				
					Test before shot 3/10 W 1" 18 M		
					Shot 9-2-59 with 4,066-1/2# Ind. Gelatin from 2086-2715' tamp shot		
					Test 1 hour after shot 8/10 W 2" 119 M		
					Test when shut in (23 days) 2/10 W 1" 15 M Big Lime; 16/10 W 2" 169 M - Br. Shale.		
					Shut in 9-25-59 in 2-3/8" tubing.		



08/25/2023

(over)

September 2, 19 59

Mr. W. W. Ferrell, Supt. Prod. & Storage

Well No. 4497 (Serial No.) on J. L. Caldwell Farm

Was shot this date with 4066-2/3# Ind. Gelatin quarts

Number of Shells _____

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

Top of Shot 2086'

Bottom of Shot 2715'

Top of Gray Shale Sand 2090 feet
(Name of Sand)

Bottom of Slate Sand 2715 feet
(Name of Sand)

Total Depth of Well 2715'

Results: After Tubing - Shale 16/10 W-2" - 169 MCF
Lime 2/10 W-1" - 15 MCF

Remarks: _____

Signed *D. B. Adams* District Supt.

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

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

Remarks:

08/25/2023

FERC-121

1.0 API well number. (If not assigned, leave blank 14 digits.)	<u>-47-043-01198</u>			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	<u>101-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>2715</u> feet			
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corporation Name P. O. Box 1273 Street Charleston City		WV State	004030 Seller Code 25325 Zip Code
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	<u>WV FIELD AREA B</u> Field Name <u>LINCOLN</u> <u>Wayne</u> <u>WV</u> County State			
(b) For OCS wells	Area Name <u>N/A</u> Block Number _____ Date of Lease _____ Mo. Day Yr. OCS Lease Number _____			
(c) Name and identification number of this well (35 letters and digits maximum.)	<u>J.L. CALDWELL</u>		<u>804497</u>	
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.)	<u>N/A</u>			
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	*		004030 Buyer Code	
(b) Date of the contract:	_____ * 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 _____	(b) Tax _____	(c) All Other Prices (Indicate (+) or (-).) _____
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>Dereg</u>	_____	_____
9.0 Person responsible for this application:	Albert H. Mathena, Jr., Director, Production Eng. Name Title <u>Albert H. Mathena</u> Signature <u>5-19-82</u> (304) 346-0951 Date Application is Completed Phone Number			
Agency Use Only				
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.

08/25/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OIL AND GAS DIVISION

Date 5-19-82

Operator's Well No. 804497

API Well No. 47 - 043 - 01198
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 606.81

Watershed

~~Co.~~ ~~Dist.~~ WAYNE County LINCOLN Quad NAUGATUCK

Gas Purchase Contract No. N.A.

Meter Chart Code 801779

Date of Contract N.A.

WELL OPERATOR Columbia Gas Trans. Corp.

ADDRESS P. O. Box 1273
Charleston, WV 25325

GAS PURCHASER N.A.

ADDRESS _____

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

Date surface drilling began: 8/24/59

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:

Larry G. Burdette

_____, a Notary Public in and for the state and county

presaid, do certify that Albert H. Mathena, Jr., whose name is signed to the writing above, bearing date the 19 day of May, 1982, has acknowledged the same before me, in my county aforesaid.

_____, do hereby certify that the above writing was read to and understood by the person named therein under my hand and official seal this 19 day of May, 1982.
Term of office expires on the 13 day of August, 1989.

Larry G Burdette
Notary Public

(OFFICIAL SEAL)

08/25/2023

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

Date 5-19, 19 82

Operator's Well No. 804497
API Well No. 47 - Wayne - 043 - 01198
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. _____
(If Applicable)

WELL OPERATOR Columbia Gas Trans. Corp.
ADDRESS P. O. Box 1273
Charleston, WV 25325

DESIGNATED AGENT James L. Weekley
ADDRESS P. O. Box 1273
Charleston, WV 25325

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

Meter Chart Code 801779

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

Director,
Production Engineering
Title

Albert H. Mathena, Jr.
Name (Print)
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

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

(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 1976 (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

Director

By _____

Title 08/25/2023

Date received by
Jurisdictional Agency



Wayne
043-1198
well #
4497

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.

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: 

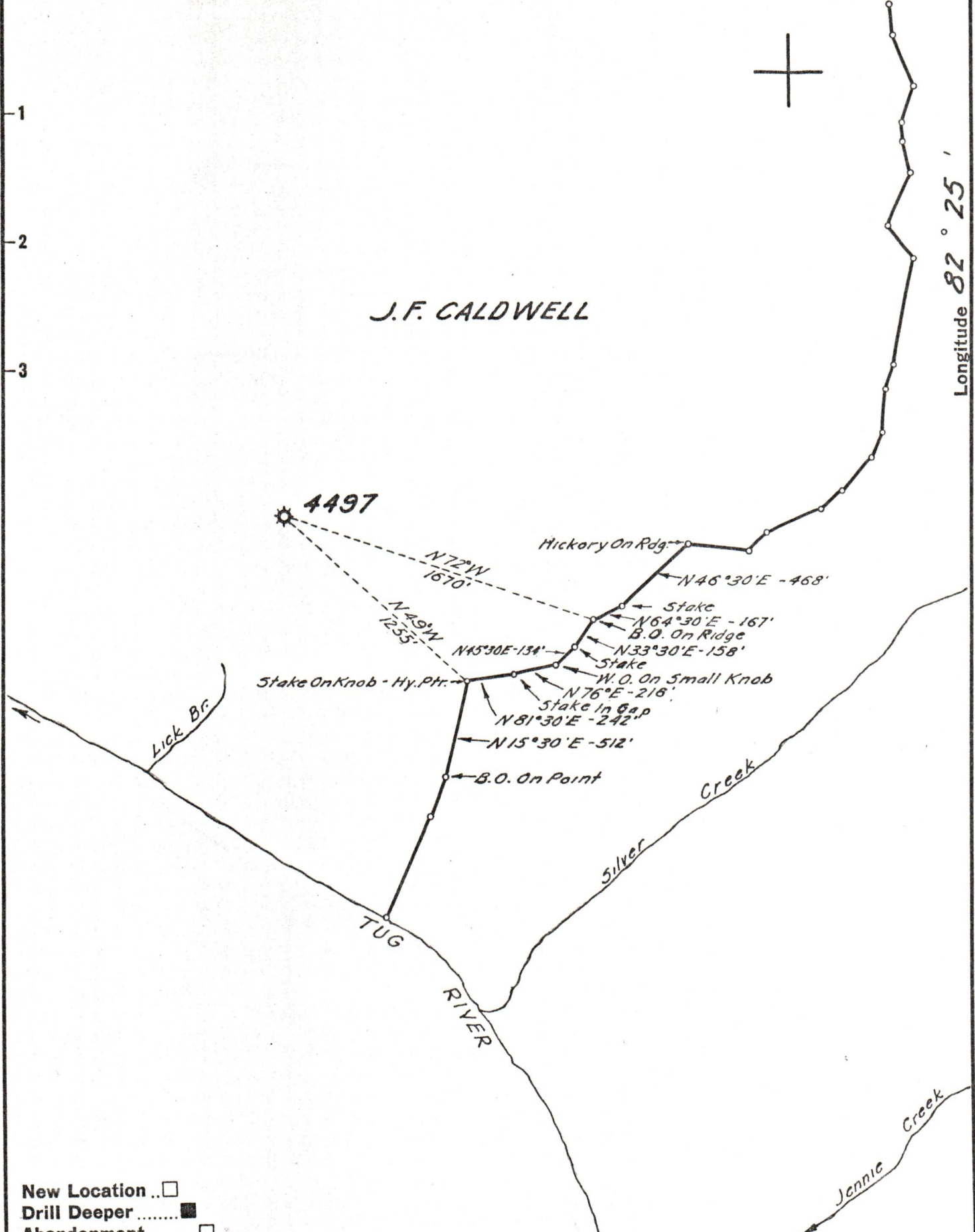
08/25/2023

Theodore M. Streit, Administrator

Latitude 37° 55'

Longitude 82° 25'

J. F. CALDWELL



New Location ..
 Drill Deeper
 Abandonment

Company UNITED FUEL GAS CO.
 Address CHARLESTON W. VA.
 Farm J. F. CALDWELL
 Tract _____ Acres 1657.84 Lease No. 31984
 Well (Farm) No. _____ Serial No. 4497
 Elevation (Spirit Level) 606.81'
 Quadrangle NAUGATUCK
 County WAYNE District LINCOLN
 Engineer Paul E. Joachim
 Engineer's Registration No. 669
 File No. 16-29 Drawing No. _____
 Date 6-2-59 Scale 1" = 660'

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

WELL LOCATION MAP

FILE NO. WAY-1198-D

08/25/2023

+ 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.