OG – 1
Rev. – 71

A-1

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUN 9 1976
OIL & GAS DIVISION
DEPT. OF MINES

6,9,76 PG

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE June 7, 1976

Surface Owner Westvaco Corporation
Address
Mineral Owner Anna Thorn, et al
Address 503-27th Street, Vienna, WV 26101
Coal Owner
Address
Coal Operator
Address

Company RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Chas., WV 25301
Farm Anna Thorn, et al Acres 194
Location (waters) Thorn's Run
Well No. 1 – 694 Elevation 750'
District Reedy (1) County Wirt
Quadrangle Spencer

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 10-9-76.

Robert L. Todd
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Goodnight
ADDRESS Smithville, W. Va.
PHONE 477-2455

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 ~~XXXXXXXXXX~~ dated July 15, 19 75 by Glen W. Roberts made to Ray Resources and recorded on the _____ day of _____ 19___, in _____ County, Book _____ Page _____

XXXX NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

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, RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
(Sign Name) Tom Ringdale
Well Operator

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 – 292-6331

Address of Well Operator
630 Commerce Square
Street
Charleston,
City or Town
West Virginia 25301
State

01/12/2024

*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

WIR-693
PERMIT NUMBER

BLANKET BOND

47-105

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known)
NAME F. W. A. Drilling Co.
ADDRESS Elkview, W. Va. 25071
TELEPHONE 965-3379

RESPONSIBLE AGENT:
NAME Bill Endicott
ADDRESS Box 234, Culloden, W. Va.
TELEPHONE 743-9067

ESTIMATED DEPTH OF COMPLETED WELL: 2410' ROTARY XX CABLE TOOLS _____

PROPOSED GEOLOGICAL FORMATION: Berea

TYPE OF WELL: OIL _____ GAS XX COMB. _____ STORAGE _____ DISPOSAL _____
RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 11 3/4"	30'	30'	To Surf
9 - 5/8			
8 - 5/8	200'	200'	To Surf
7			
5 ½			
4 ½	2410'	2410'	75 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100' FEET _____ SALT WATER 1750' FEET _____
APPROXIMATE COAL DEPTHS _____, _____.
IS COAL BEING MINED IN THE AREA? NO BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, $100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

01/12/2024

_____
For Coal Company

_____
Official Title

A-7

FORM IV-1
[03-78]

Date: January 30, 19 7

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

DESIGNATION OF AGENT BY WELL OWNER OR OPERATOR

Well Operator X / Owner / Ray Resources Div. of F.D.O.C.
Address 630 Commerce Sq.
Charleston, W.Va. 25301

Pursuant to the provisions of Code § 22-4-1k, and subject to the requirements of Regulation 7.01, the undersigned hereby designates the following person to be the agent of the undersigned for the purpose of receiving process, notices, orders and other communications which may be issued under Chapter 22 of the Code of West Virginia:

Designated Agent Ray Resources, Div. Of F.D.O.C.
Address 630 Commerce Sq.
Charleston, W.Va. 25301
Telephone 304-344-8393

The undersigned represents that said designated agent is a bona fide resident of the State of West Virginia, and has agreed to accept the designation. This designation applies to the following wells:

X all wells owned or operated by the undersigned in West Virginia

____ the wells listed below *(Use space below or reverse side or attach list)*

[COMPLETE AS APPLICABLE]

X The undersigned is hereby recording an existing designation of agent made prior to the initial adoption of Form IV-1.

____ The undersigned is proposing to own or operate wells in West Virginia for the first time, so that this designation should also be considered the registration by the undersigned with the Deputy Director.

____ The undersigned has owned and operated a well or wells in West Virginia since the year 19____, but has not heretofore appointed a designated agent.

____ This designation substitutes a new designated agent for the undersigned, who has owned or operated a well or wells in West Virginia since the year 19____. The present designated agent of the undersigned, who will continue as such, if he is able, until this new designation has been approved, is—

Agent being replaced _____
Address _____

Ray Resources Div. Of F.D.O.C.
Well Owner or Operator

By: James S. Ray
Its: Executive Vice-President

ACCEPTED this _____, 19____

(Signature of designated agent)

OG-10
Rev. - 9-71
B-1

RECEIVED
OCT 13 1976
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary XX Oil ____
Cable ____ Gas XXX
Recycling ____ Comb ____
Water Flood ____ Storage ____
Disposal ____ ____ (Kind)

Quadrangle Spencer

Permit No. WIRT-693

~~RAY RESOURCES, DIVISION OF~~
Company FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Chas., WV 25301
Farm Anna Thorn, et al Acres 194
Location (waters) Thorn's Run
Well No. #694 Elev. 750'
District Reedy County Wirt
The surface of tract is owned in fee by Westvaco Corporation
Address New York, New York
Mineral rights are owned by Anna Thorn, et al
Address Vienna, W. Va. 26101
Drilling Commenced 6-11-76
Drilling Completed 6-15-76 Completed well 8-13-76
Initial open flow ____ cu. ft. ____ bbls.
Final production 2,218 M cu. ft. per day ____ bbls.
Well open ____ hrs. before test 950# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	220'	220'	To Surf.
7			
5 1/2			
4 1/2	2400'	2400'	75 Sks.
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Well was frac'd with 540 Bbls. oil; 500 Gal. acid; and 25,000# sand
Average injection rate - 26.8
Average treating pressure 2331#

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Berea Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sub			0	7		
Red Rock			7	600		
Shale			600	1300		
Salt Sand			1300	1635		
Lime			1635	1925		
Injun			1925	2000		
Shale			2000	2330		
Berea			2330	2336		
Shale			2336	2421		
				2421'	T.D.	

01/12/2024

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks

01/12/2024

Date October 11, 1976

APPROVED RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION, Owner

By Tom Ringdale

Geologist (Title)

OG-11 B-2

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

RECEIVED
JUN 14 1976
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Wir-693

Oil or Gas Well (KIND)

Company Rag Resources Div of F.D.O.C

Address

Farm Anna Thorn

Well No. 1-694

District Reedy County Wirt

Drilling commenced

Drilling completed Total depth

Date shot Depth of shot

Initial open flow /10ths Water in Inch

Open flow after tubing /10ths Merc. in Inch

Volume Cu. Ft.

Rock pressure lbs. 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
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names

Cont - F.W.A. Drilling Co Rotary - Fluid

Remarks:

Pit & Permit - O.K

W. Res Notified
No Appointment

6-10-76
DATE

DISTRICT WELL INSPECTOR

01/12/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

01/12/2024

OG-11 B-3

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUN 17 1976
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Wir-693

Oil or Gas Well _____ (KIND)

Company Ray Resources Div of F.D.O.C

Address

Farm Anna Thorn

Well No. 1-694

District Reedy County Wirt

Drilling commenced 6-10-76

Drilling completed 6-15-76 Total depth 2420 Log

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ 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
8¼ 8 5/8		220	
6⅝			Depth set
5 3/16 4½		2418	Cem 85 Bgs-Dowell
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8 SIZE 220 No. FT. _____ Date
Cem to Surface 80 Bgs

NAME OF SERVICE COMPANY Dowell

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Marks - Rainwater

Contr - F.W.A Drilling Co Rotary - Fluid

Remarks:

Cem 4½ Casing

Big lime - 1640 - 1770
Injun - 1770 - 1910
Berea - 2330 - 2336

6-15-76
DATE

R. Goodnight
DISTRICT WELL INSPECTOR

01/12/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

01/12/2024

OG-11

8-4

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
MAY 12 1978
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Wir-693

Oil or Gas Well _____ (KIND)

Company Ray Resources Div of F.D.O.C

Address

Farm Anna Thorn et al

Well No. 1-694

District Reedy County Wirt

Drilling commenced

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ 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
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names

Remarks:

Hold - 12b

operator Notified

5-11-78
DATE

[illegible signature]
DISTRICT WELL INSPECTOR

01/12/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ **Well No.**_____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT–THICKNESS	WOOD–SIZE	LEAD	CONSTRUCTION–LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

01/12/2024

_____

DISTRICT WELL INSPECTOR

B-5

State of West Virginia

Department of Mines
Oil and Gas Division
Charleston 25305

October 13, 1976

JOHN ASHCRAFT
Director

ROBERT L. DODD
Deputy Director

Paul Goodnight
Smithville, W.Va.

PERMIT	WIRT-693
COMPANY	Ray Resources
FARM	Anna Thorn, etal
WELL NO	1-694
DISTRICT	Reedy
COUNTY	Wirt

Dear Sir:

Please make a final inspection of the well described above.

Very truly yours,

Robert L. Dodd

Robert L. Dodd

RLD/
chm

01/12/2024

01/12/2024

OG-11

B-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
OCT 20 1978
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Wir-693

Oil or Gas Well _____ (KIND)

Company Kay Resources Div of F.D.O.C

Address _____

Farm Anna Thorn et al

Well No. 694

District Reedy County Wirt

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ 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
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks:

Rel-

10-18-78
DATE

R. E. Goodnight 505
DISTRICT WELL INSPECTOR

01/12/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ADDRESS_____

FARM_____DISTRICT_____COUNTY_____

Filling Material Used_____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

01/12/2024

B-12

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305
October 20, 1978

Ray Resources Corporation
Division of F.D.O.C.
630 Commerce Square
Charleston, W. Va. 25301
Attn: Tom Ragsdale

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

WIRT-683 - Belva Miller # 686 - Reedy District

WIRT-693 - Anna Thorn, etal. # 1-694 - Reedy District

WIRT-702 - Billy Full # 723 - Reedy District

WIRT-715 - B. L. Sheppard # 1-752 - Reedy District

WIRT-717-REV - C. E. Hughes # 1-695 - Tucker District

WIRT-719 - J. M. Williams # 1-756 - Tucker District

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force until such time as the requirements of Chapter 22 have been met. "Bonds will stay in force for life of the wells."

Reclamation requirements approved.....

Very truly yours,

Robert L. Dodd

Robert L. Dodd, Deputy Director
Oil and Gas Division

RLD/cam

01/12/2024

FERC-1

1.0 API well number: (If not available, leave blank. 14 digits.)	47-105-0693
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	108 (Section of NGPA) ____ (Category Code)
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	____ feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Name: ~~Y RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION~~ Ray Resources, Div. of F.D.O.C. ____ (Seller Code) Street: ~~330 Commerce Square~~ 630 Commerce Square City: ~~Charleston, W. Va 25301~~ Charleston, W. Va. 25301 State ____ Zip Code ____
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Name: Reedy County: Wirt State: WV
(b) For OCS wells:	Area Name: N/A Block Number ____ Date of Lease: Mo. Day Yr. OCS Lease Number ____
(c) Name and identification number of this well: (35 letters and digits maximum.)	Anna Hess #694
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Name: Columbia Gas Trans. Buyer Code ____
(b) Date of the contract:	02 09 78 (Mo. Day Yr.)
(c) Estimated annual production:	9.53 MMcf.

	(a) Base Price ($/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	2.264	.338	.009	2.611
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.264	.338	.009	2.611

9.0 Person responsible for this application:

Name: TOM R. RAGSDALE Title: VICE PRES.

Signature: Tom R. Ragsdale

Date Application is Completed: 1-30-79 Phone Number: 304-344-8393

Agency Use Only
Date Received by Juris. Agency: FEB 23 1979
Date Received by FERC

FT790806/2-2

01/12/2024

WELL DETERMINATION REPORT

PARTICIPANTS: DATE: AUG 21 1979 BUYER-SELLER CODE

WELL OPERATOR: Ray Resources 023567

FIRST PURCHASER: Columbia Gas Transmission 004030

OTHER:

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
790223.108.105.0693
Use Above File Number on all Communications Relating to Determination of this Well

Qualified as Section 108, stripper well.

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1 FERC-121 ✓ Items not completed - Line No. —

2 IV-1 - Agent ✓ James S. Ray

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 1 years

8 IV-40- 90 day Production 92 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 ~~Completed~~ Date Commenced: 6-11-76 Frac Date: 8-13-76 Deepened —

(5) Production Depth: 2330-2336'

(5) Production Formation: Berea

(5) ~~Initial Potential~~ Final Open Flow: 2218 mcf

(5) ~~State R.P. Initially~~ Final Rock Pressure: 950#

(6) Other Gas Test: —

(7) Avg. Daily Gas from Annual Production: $\frac{12504}{245}$ = 51. mcf gas; $\frac{55}{245}$ = .2

(8) Avg. Daily Gas from 90-day ending w/1-120 days $\frac{2817}{92}$ = 30.6 mcf gas; $\frac{}{92}$ = NA

(8) Line Pressure: NA PSIG from Daily Report

(5) Oil Production: — From Completion Report —

(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

Additional Information — Does computer program confirm?

Was Determination Objected to? By Whom?

JM MK

FORM IV-56WC
[12-78]

Date 1-30, 19 79

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. 694

API Well No. 47 - 105 - 0693
State County Permit

WELL CLASSIFICATION FORM

STRIPPER GAS WELL

NGPA Section 108

DESIGNATED AGENT Ray Resources, Div. Of F.D.O.C.

ADDRESS 630 Commerce Sq

Charleston, W.Va. 25301

WELL OPERATOR Ray Resources, Div of F.D.O.C. LOCATION: Elevation 750

ADDRESS 630 Commerce Sq.

Watershed Thorns Run

Charleston W.Va. 25301

Dist. Reedy County Wirt Quad. Spencer

GAS PURCHASER Columbia Gas

Gas Purchase Contract No. 22010

ADDRESS 1700 MacCorkle Ave SE

Meter Chart Code 207127

Charleston WVa 25325

Date of Contract 2-9-78

* * * * * * * * * * * * * * * * *

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.)

1) well head
2) 2" gathering line
3) tubing
4) seperator
5) tanks

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:

1) Production Statements

2) Lease files

3) Tax Records

Located in Main Office

01/12/2024

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

Describe the search made of any records listed above:

1) Checked Production Statements

2) Checked Lease files

3) Checked Tax Records

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.

TOM R. RAGSDALE

AFFIDAVIT

I, _____, 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.

Tom R. Ragsdale

STATE OF WEST VIRGINIA,

COUNTY OF Kanawha, TO WIT:

I, Donald R Wilson Jr, a Notary Public in and for the state and county aforesaid, do certify that Tom R Ragsdale, whose name is signed to the writing above, bearing date the 20th day of January, 1979, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 12th day of February, 1979.

My term of office expires on the 12th day of August, 1980.

01/12/2024

Donald R Wilson Jr
Notary Public

[NOTARIAL SEAL]

FORM IV-48WC
[12-78]

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date January 30, 1979

Operator's Well No. 694

API Well No. 47 - 105 - 0693
State County Permit

Previous File No. _____ (If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Ray Resources, Div. Of F.D.O.C. DESIGNATED AGENT _____

ADDRESS 630 Commerce Sq. ADDRESS Same

Charleston, W.Va. 25301

Gas Purchase Contract No. 22010 and Date 2-9-78 (Month, day and year)

Meter Chart Code 207

Name of First Purchaser Columbia Gas Trans

1700 MacCorkle Ave SE (Street or P. O. Box)

Charleston W.Va 25325 (City) (State) (Zip Code)

FERC Seller Code _____ FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

☑ (1) Initial determination (See FERC Form 121.) Section of NGPA 108 Category Code

☐ (2) Determination that increased production is the result of enhanced recovery technology.

☐ (3) Determination of a seasonally affected well.

TOM R. RAGSDALE

~~James G. Ray~~ Name (Print) ~~Exec.~~ Vice-Pres. Title

Signature Tom R. Ragsdale

630 Commerce Sq. Street or P. O. Box

Charleston, W.Va. 25301 City State (Zip Code)

(304) 344-8393 Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

(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

Robert T. [illegible]
Director

FEB 23 1979
Date received by Jurisdictional Agency

By _____

Title _____

01/12/2024

694

IV-39-WC

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

REPORT OF MONTHLY PRODUCTION
GAS VOLUMES IN MFC @ 14.73
OIL IN BARRELLS @ 60 DEGREES

REPORT DATE - 2/5/79

OPERATOR : Ray Resources, Division of Flying Diamond Oil Corporation

01/12/2024

1977

API 47-105-0693 FARM : THORN COUNTY: WIRT AVG. FLOW PRESSURE ____ SHUT-IN PRESSURE ____

													TOTALS
GAS MFC													GAS
OIL BBL	J-	F-	M-	A-	M-	J-	J-	A-	S-	O-	N-	D-	OIL
DAYS ONLINE													

1978

API 47-105-0693 FARM : THORN COUNTY: WIRT AVG. FLOW PRESSURE ____ SHUT-IN PRESSURE ____

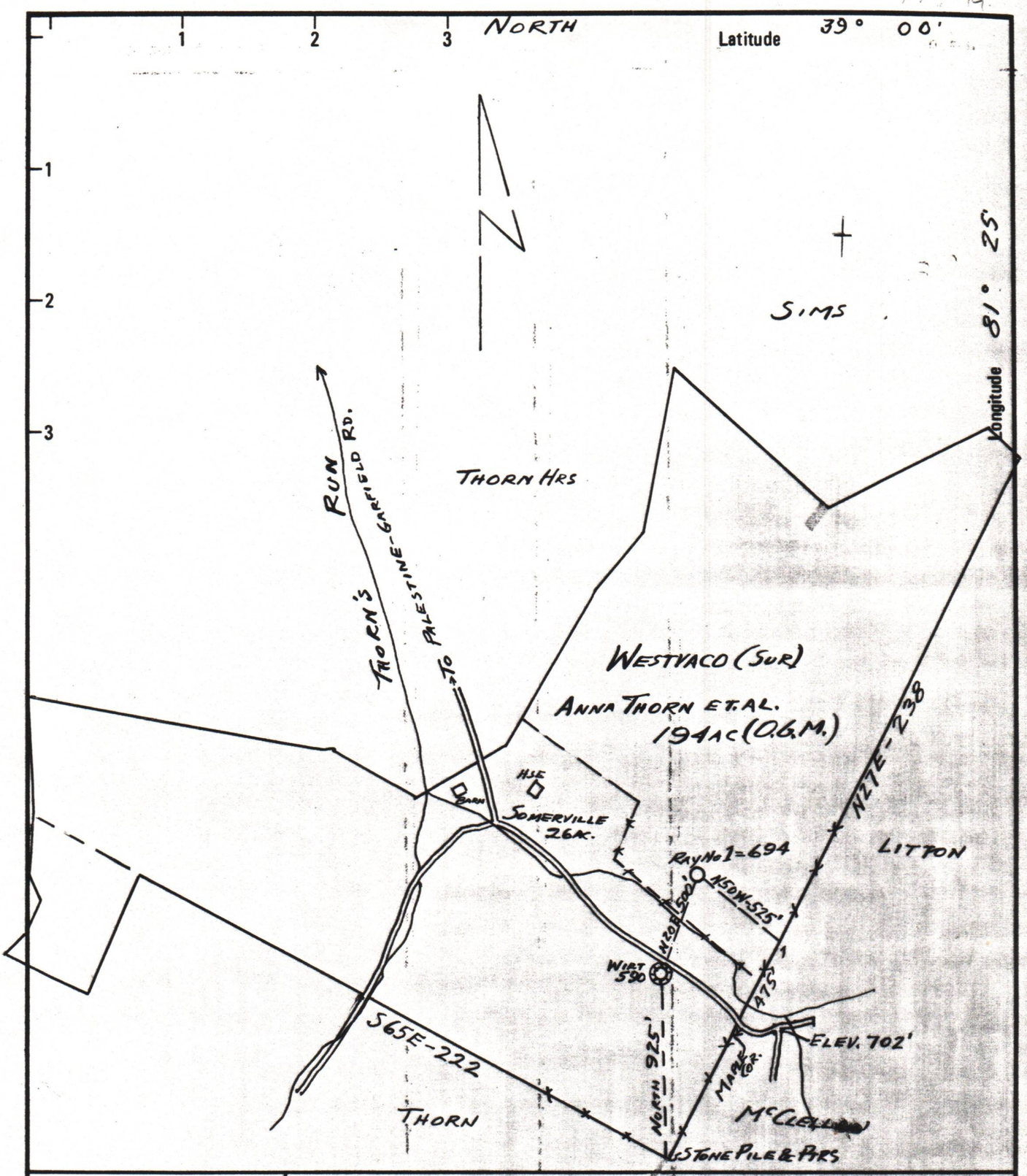
													TOTALS
GAS MFC					1659	834	3044	2581	1569	1043	935	839	GAS 12504
OIL BBL	J- 0	F- 0	M- 0	A- 0	M- 19	J- 0	J- 0	A- 29	S- 0	O- 7	N- 0	D- 0	OIL 55
DAYS ONLINE					31	30	31	31	30	31	30	31	

SUMMARIZATION SCHEDULE
Section 271. 804 (b)

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

API NUMBERS

6,9,76 PE



New Location ☑
Drill Deeper ☐
Abandonment ☐

Minimum Error of Closure 1 IN 200
Source of Elevation RD. FKS. SHOWN

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company RAY RESOURCES DIV. OF F.D.O.C.
Address 630 COMMERCE SQ. CHARLESTON, W.VA.
Farm WESTVACO (SUR.) ANNA THORN ET.AL. (O.G.M.)
Tract _____ Acres 194 Lease No. _____
Well (Farm) No. RAY ONE Serial No. 694
Elevation (Spirit Level) 750 FT.
Quadrangle SPENCER
County WIRT District REEDY
Engineer Glen W Roberts
Engineer's Registration No. 860
File No. _____ Drawing No. _____
Date 6-5-76 Scale 1 IN = 40 POLES

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

WELL LOCATION MAP

FILE NO. WIR-693

01/12/2024

+ 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.

47-105

N21664

2410' Berea