



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUN 4 1976
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner	Clarence Rowand	DATE	April 20, 1976
Address		Company	RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
Mineral Owner	Cabot Corporation	Address	630 Commerce Sq., Chas., W. Va. 25301
Address	Charleston, W. Va.	Farm	C. Rowand Acres 100.75
Coal Owner		Location (waters)	Branch of Fulls Fork
Address		Well No.	594 Elevation 1111'
Coal Operator		District	Reedy County Wirt
Address		Quadrangle	Ripley

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 10-4-76.

Robert T. Bell
Deputy Director - Oil & Gas Division

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

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 ~~Assignment~~ ^{Assignment} dated September 2, 1976 by Seneca Oil Company made to Ray Resources and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____
_____XXX 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, Tom Fitzgerald
(Sign Name) _____ Well Operator
_____630 Commerce Square
_____Charleston,
_____West Virginia 25301
_____State

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
West Virginia Geological and Economic Survey,
P. O. Box 879
Morgantown, W. Va. 26505

BLANKET BOND

01/12/2024

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Ray Resources NAME Bill Endicott
 ADDRESS Charleston, W. Va. 25301 ADDRESS Box 234 Culloden, W. Va.
 TELEPHONE 344-8393 TELEPHONE 743-9067
 ESTIMATED DEPTH OF COMPLETED WELL: 2800' 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	30'	30'	To Surf
9 - 5/8			
8 - 5/8	350'	350'	To Surf
7			
5 1/2			
4 1/2	2800'	2800'	75 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 75 FEET _____ SALT WATER 1800 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.

For Coal Company

Official Title

01/12/2024



RECEIVED

DEC 15 1976

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division
WELL RECORD

Quadrangle Ripley
Permit No. Wirt-692

Rotary XX Oil _____
Cable _____ Gas _____
Recycling _____ Comb. XX
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

RAY RESOURCES, DIVISION OF
Company FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Chas., WV 25301
Farm C. Rowand Acres 100.75
Location (waters) Branch of Full's Fork
Well No. 594 Elev. 1111'
District Reedy County Wirt
The surface of tract is owned in fee by Clarence Rowand
Address _____
Mineral rights are owned by Cabot Corp.
Address Charleston, W. Va.
Drilling Commenced 6-4-76
Drilling Completed 8-31-76
Initial open flow _____ cu. ft. _____ bbls.
Final production 253 M cu. ft. per day 28 bbls./day
Well open _____ hrs. before test 400# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16.			To Surf. 75 Sks.
Cond. 13-10"			
9 5/8			
8 5/8	228'	228'	
7			
5 1/2			
4 1/2	2797'	2797'	
3			
2-3/8"	2722'	2722'	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well frac'd with 555 Bbls. oil; 36,000# sand and 250 Gal. Acid
Average injection rate - 27 B.P.M.
Average treating press. - 2259#
Immediate shut in press. - 1400#, after 15 minutes 1000#

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
Soil			0	8		
Sandy Shale			8	256		
Red Rock			256	1550		
Shale			1550	1680		
Salt Sand			1680	1975		
Maxton			1975	2195		
Lime			2195	2240		
Injun			2240	2365		
Shale & Sand			2365	2650		
Berea			2650	2659		
Shale			2659	2808		
				2808'	T.D.	

01/12/2024

(over)

* Indicates Electric Log tops in the remarks section.

25

25

25

25

01/12/2024

Date November 30, 19 76

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

By Tom Fogdale
Geologist (Title)

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

RECEIVED

JUN 10 1976

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Wir - 692

Oil or Gas Well _____
(KIND)

Company <u>Ray Resources Div of F.D.O.C</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>C. Rowand</u>	16			Kind of Packer _____
Well No. <u>594</u>	13			
District <u>Reedy</u> County <u>Wirt</u>	10			Size of _____
Drilling commenced <u>6-5-76</u>	8 1/4 <u>8 5/8</u> <u>214</u>			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED <u>8 5/8</u> SIZE <u>214</u> No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	<u>Cem to Surface 100 BM</u>			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY <u>Lawson</u>			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Goodrich
Cont - F.W.A. Drilling Co - Rotary - Fluid
Remarks:

Dry - 1293

6-7-76
DATE

[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

DISTRICT WELL INSPECTOR
01/12/2024

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

RECEIVED

JUN 14 1976

OIL & GAS WELLS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Wir - 692

Oil or Gas Well _____
(KIND)

Company <u>Ray Resources Div OF F.D.O.C.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>C. Rowland</u>	16			Kind of Packer _____
Well No. <u>594</u>	13			
District <u>Reedy</u> County <u>Wirt</u>	10			Size of _____
Drilling commenced <u>6-5-74</u>	8 1/4 <u>8 3/8</u>		<u>214</u>	
Drilling completed <u>6-9-74</u> Total depth <u>2800</u>	6 5/8		<u>2789</u>	Depth set _____
Date shot _____ Depth of shot _____	5 3/16 <u>4 1/2</u>		<u>2789</u>	
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED <u>8 3/8</u> SIZE <u>214</u> No. FT. _____ Date _____ <u>Com to Surface 75 Bp</u>			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY <u>Lawson</u>			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Marks Goodrich

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

Remarks:

Rigging Down

Wayton 2066 - 2094
Big line 2116 - 2246
INJUN - 2246 - 2394
Berea - 2756 - 2763

6-10-76

DATE

A. D. Goodright

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-11

OG-11

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

RECEIVED
MAY 19 1978
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Wir-692

Oil or Gas Well _____
(KIND)

Company _____ Address _____ Farm _____ Well No. _____ District _____ County _____ 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			Kind of Packer
	16			
	13			
	10			Size of _____
	8 1/4			
	6 5/8			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
	Liners Used _____			Perf. top _____
				Perf. bottom _____

Drillers' Names _____

Remarks:

Ret-

5-17-78

DATE

[Signature] 04/12/2024
DISTRICT WELL INSPECTOR

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



State of West Virginia

Department of Mines
Oil and Gas Division

Charleston 25305

May 22, 1978

B-12
Ray Resources
Division of F.D.O.C.
630 Commerce Square
Charleston, W.Va. 25301

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-686 - Cabot (Charles Morgan) # 1-582 - Reedy District
WIRT-688 - Bina Delaney (Mark Cheaney) # 1-598 - Burning Springs District
WIRT-689 - McConaughy-Roberts (Westvaco) # 1-596- Burning Springs District
WIRT-692 - C. Rowand # 594 - Reedy District
WIRT-695 - Dustin Enoch # 693 - Reedy District
WIRT- 700 - C. Rowand (Cabot) # 2-721 - Reedy District

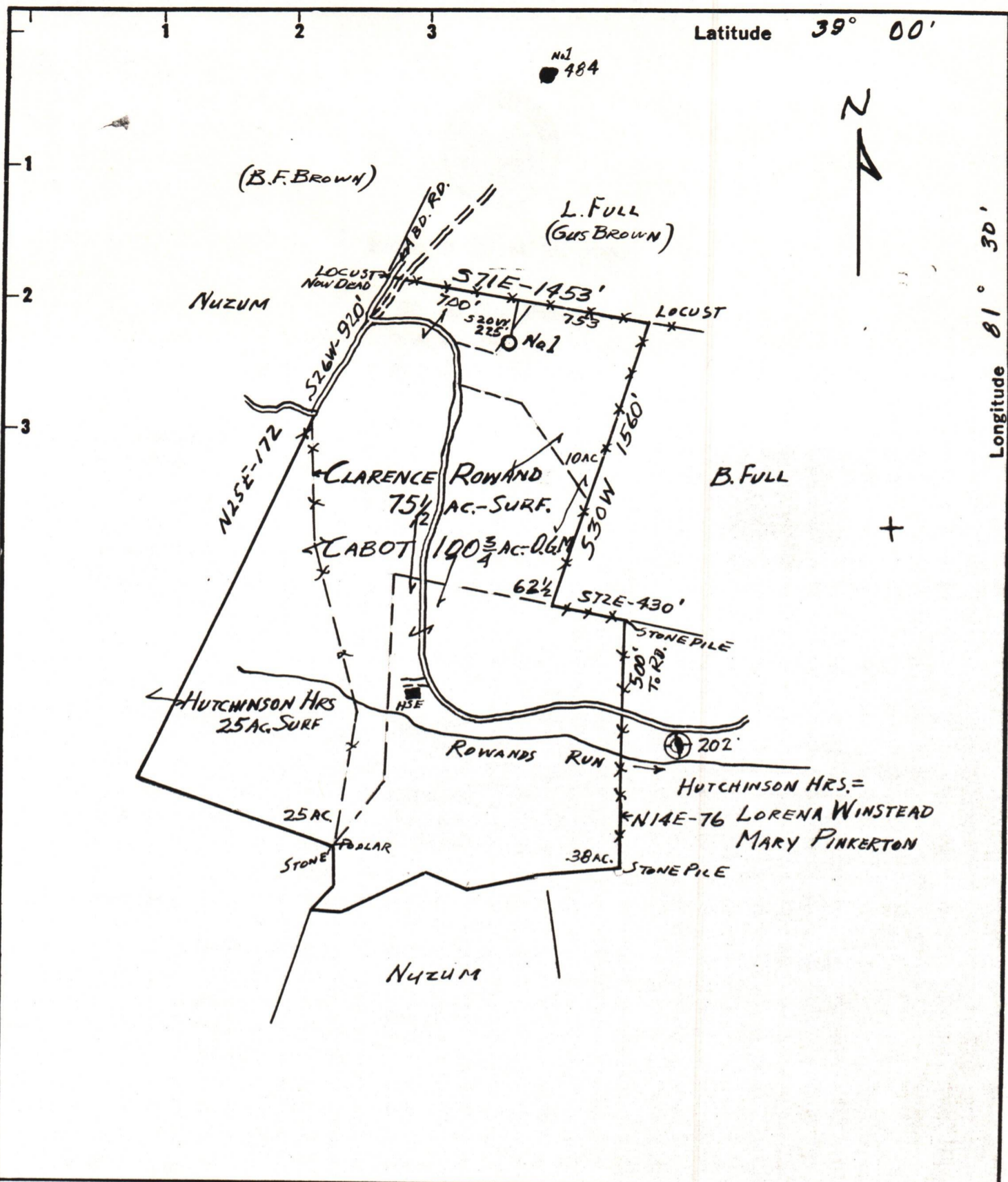
In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force until such time as the requirements of Chapter 22 have been met. "Bonds will stay in force for life of the wells."

Very truly yours,

Robert L. Dodd, Deputy Director
Oil and Gas Division

RLD/cc

01/12/2024



Latitude 39° 00'

No. 484

Longitude 81° 30'

(B.F. BROWN)

L. FULL (GUS BROWN)

B. FULL

NUZUM

LOCUST NOW DEAD

S71E-1453'

LOCUST

N25E-172'

CLARENCE ROWAND 75 1/2 AC.-SURF.

CABOT 100 3/4 AC.-O.G.M.

10 AC.

530 W

S72E-430'

STONE PILE

500' TO RD.

HUTCHINSON HRS 25 AC. SURF

ROWANDS RUN

HUTCHINSON HRS. =

KN14E-76 LORENA WINSTEAD MARY PINKERTON

25 AC.

STONE PILE

38 AC.

STONE PILE

NUZUM

Minimum Error of Closure 1 IN 200

Source of Elevation CABOT ON ROWAND = W1202 = 790 FT

- New Location
- Drill Deeper
- Abandonment

"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 FDOC
 Address CHARLESTON, W. VA.
 Farm CLARENCE ROWAND(SUR) CABOT(O.G.M.)
 Tract 100 3/4 Acres Lease No. 1291
 Well (Farm) No. ONE Serial No. 594
 Elevation (Spirit Level) 1111 FT.
 Quadrangle RIPLEY
 County WIRT District REEDY
 Engineer Glen Roberts
 Engineer's Registration No. 860
 File No. _____ Drawing No. _____
 Date APR 16, 1976 Scale 1 IN = 40 POLES

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

WELL LOCATION MAP
 FILE NO. WIR-692

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

2800 Berea

35

35

35

35

01/12/2024

B-3



State of West Virginia

Department of Mines
Oil and Gas Division
Charleston 25305

December 16, 1976

JOHN ASHCRAFT
Director

ROBERT L. DODD
Deputy Director

Paul Goodnight
Smithville, W.Va.

PERMIT	WIRT-692
COMPANY	Ray Resources
FARM	C. Rowand
WELL NO	594
DISTRICT	Reedy
COUNTY	Wirt

Dear Sir:

Please make a final inspection of the well described above.

Very truly yours,

Robert L. Dodd

RLD/ chm

01/12/2024