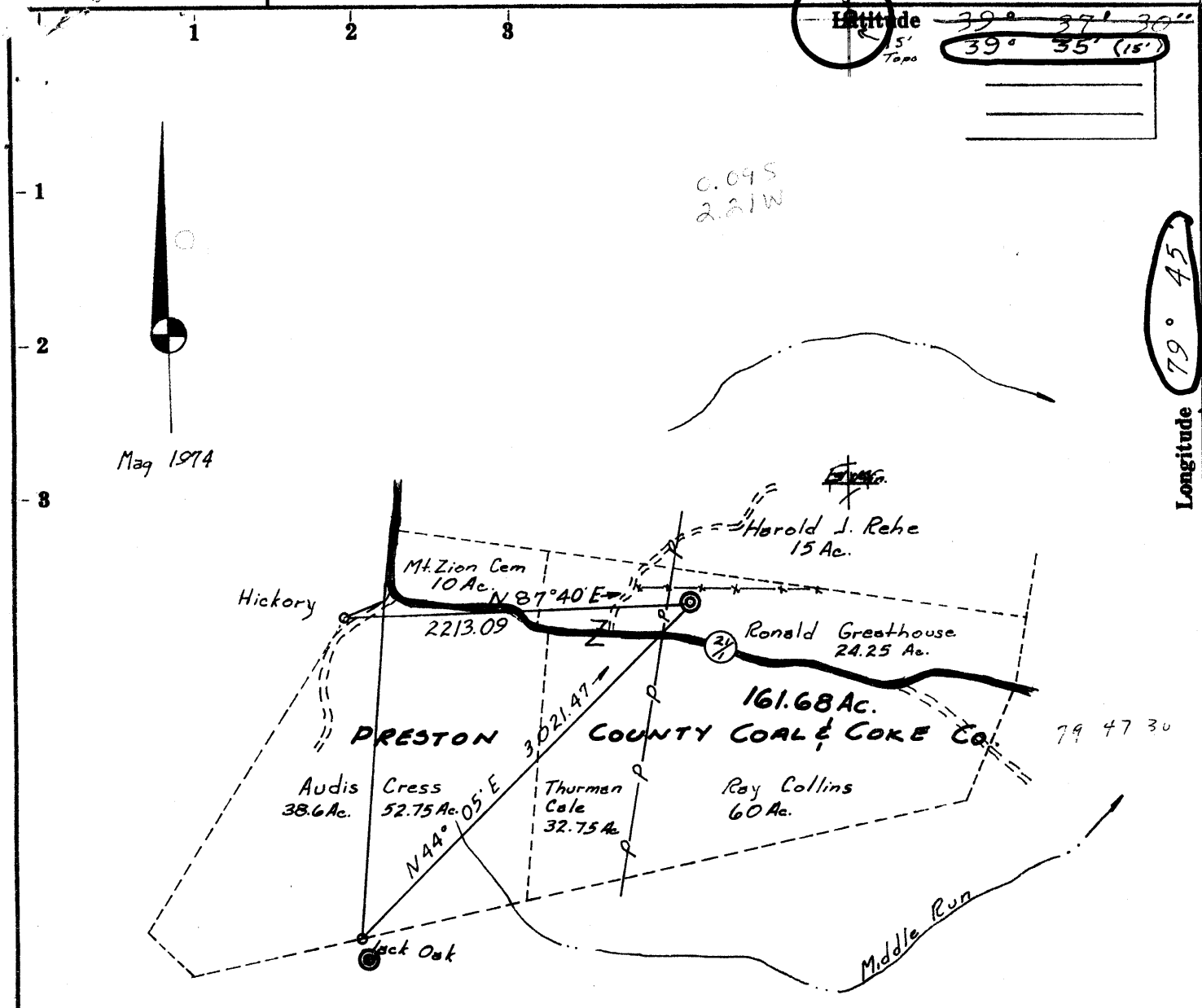


Latitude  $39^{\circ} 37' 30''$   
 $39^{\circ} 35' (15')$



7/2 Min 7.942 01 30 2 0.065 39 35  
 2.24W 79 45 3 0.020 79 45 30

- Fracture....
- Redrill....
- New Location
- Drill Deeper
- Abandonment

USGS U.E. at intersection of Park Street & Locust Avenue - Town of Masontown E1-1819.  
 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.  
 Minimum accuracy, one part in 200'

Company Ray Resources Corporation  
 Address Charleston W.Va.  
PRESTON COUNTY COAL & COKE CO. - MIN.  
 Farm Ronald V. Greathouse - SURFACE  
 Tract \_\_\_\_\_ Acres 161.68 Lease No. A 70271  
 Well (Farm) No. 484 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1873'  
 Quadrangle Morgantown 15 SE  
 County Preston District Valley  
 Surveyor Roger R. Stiles  
 Engineer's Registration No. 25U  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 8 October 1974 Scale 1"=1000'

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

**WELL LOCATION MAP**  
 FILE NO. Prea-173

+ 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.

**47-077**

6-6 S. Burns 8100' Chapel (313)

Deep Well OCT 31 1974 (Oriskany)



**RECEIVED**

MAR 9 1975

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS  
DEPT. OF MINES

**Oil and Gas Division**

**WELL RECORD**

Quadrangle Morgantown

Permit No. PRES-173

Rotary XX Oil  
Cable \_\_\_\_\_ Gas XX  
Recycling \_\_\_\_\_ Come \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company RAY RESOURCES  
630 Commerce Square  
Address Charleston, W. Va. 25301  
Farm Preston Coal & Coke Acres 161  
Location (waters) \_\_\_\_\_  
Well No. 484 Elev. 1873'  
District Valley County Preston  
The surface of tract is owned in fee by \_\_\_\_\_  
Ronald Greathouse  
Address Masontown, W. Va.  
Mineral rights are owned by Preston C. & C.  
Address Cascade, W. Va.  
Drilling Commenced Oct. 21, 1974  
Drilling Completed Nov. 11, 1974  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 3037 M cu. ft. per day \_\_\_\_\_ bbls.  
Well open 8 hrs. before test 3511# RP  
14 Days

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
	<b>115'</b>	<b>115'</b>	100 Sks.
	<b>1214'</b>	<b>1214'</b>	350 Sks.
	<b>8080'</b>	<b>8080'</b>	300 Sks.
	<b>7907'</b>	<b>7907'</b>	None
Liners Used			

Well treatment details: Attach copy of cementing record.  
Frac with 1408 bbls. gelled acid/water with 60,000# 20/40 sand.  
Break down pressure 4800 psi. Treating pressure 5000 avg. @ 37 bbl. per min.

Coal was encountered at Open Mine at 79' Feet \_\_\_\_\_ Inches  
Fresh water 60' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Huntersville Chert Depth 7792 - 7905'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	79		
Open Mine			79	84		
Sand			84	115		
Sand & Shale			115	370		
Sand			370	838		
Sand & Red Shale			838	1218		
Shale & Red Rock			1218	3500		
Sand & Shale			3500	7352		
Tully Lime			7352	7432		
Black Shale			7432	7772		
Onondaga			7772	7792		
<u>Huntersville Chert</u>			7792	7953		
Oriskany			7953	8087		
T. D.			8087			

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

OCT 15 1974

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 Ronald Greathouse  
Address Masontown, W. Va.  
Mineral Owner Preston County Coal & Coke Corp.  
Address Cascade, W. Va.  
Coal Owner Preston County Coal & Coke Corp.  
Address Cascade, W. Va.  
Coal Operator None  
Address \_\_\_\_\_

DATE October 15, 1974  
Company Ray Resources Corporation  
630 Commerce Square  
Address Charleston, W. Va. 25301  
Farm Preston County Coal & Coke Corporation Acres 161.68  
Location (waters) Middle Run  
Well No. 484 Elevation 1873'  
District Valley County Preston  
Quadrangle Morgantown

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 2-15-75

[Signature]  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Garrett  
Clarksburg PH: 622-3871  
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 grant or lease dated Sept. 15 19 70 by Preston County C. & C. Corp. made to Consolidated Gas Supply Corp. and recorded on the 28th day of Sept. 19 70, in Preston County, Book 416 Page 169

XX 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.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:  
West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505  
AC 304-296-4461

Very truly yours, RAY RESOURCES CORPORATION  
(Sign Name) William O. Yarns  
Well Operator  
630 Commerce Square  
Street  
Charleston  
City or Town  
West Virginia 25301  
State

\*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.

BLANKET BOND

Pres-173 PERMIT NUMBER  
47-077

**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 Corporation NAME R. D. Hanley, Jr.  
630 Commerce Square 630 Commerce Square  
 ADDRESS Charleston, W. Va. 25301 ADDRESS Charleston, W. Va. 25301  
 TELEPHONE 344-8393 TELEPHONE 344-8393  
 ESTIMATED DEPTH OF COMPLETED WELL: 8100 Ft. ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 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	150 Ft.	150 Ft.	To Surface
9 - 5/8	1200 Ft.	1200 Ft.	To Surface
8 - 5/8			
7			
5 1/2			
4 1/2	8100 Ft.	8100 Ft.	200 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS 100 Ft. \_\_\_\_\_  
 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