

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

Source of Elevation USGS VE 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 630 Commerce Sq, Charleston, W.Va.
 Farm I. G. Morgan
 Tract _____ Acres 48 7/8 Lease No. _____
 Well (Farm) No. 481 Serial No. 11876
 Elevation (Spirit Level) 1926 SE
 Quadrangle Masontown 7 1/2, Morgan town 15'
 County Preston District Valley
 Surveyor or Engineer Joseph E. Bundy
 Surveyor's or Engineer's Registration No. 234 LLS.
 File No. _____ Drawing No. _____
 Date 30 August 1974 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. PRES-172

+ 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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DEC 3 1974

Quadrangle Masontown

Permit No. PRES-172

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

Company RAY RESOURCES CORPORATION
630 Commerce Square
Address Charleston, W. Va. 25301
Farm Birdie Morgan Acres 98
Location (waters) Middle Run
Well No. 481 Elev. 1926'
District Valley County Preston
The surface of tract is owned in fee by _____
Birdie Morgan
Address Morgantown, W. Va.
Mineral rights are owned by Birdie Morgan
Address Morgantown, W. Va.
Drilling Commenced Sept. 14, 1974
Drilling Completed Oct. 3, 1974
Initial open flow _____ cu. ft. _____ bbls.
Final production 2919M cu. ft. per day _____ bbls.
Well open 8 hrs. before test 3505 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	200'	200'	To Surface
9 5/8	1181'	1181'	To Surface
8 5/8			
7			
5 1/2	8131'	8131'	250 Sks.
4 1/2			
3			
2	8007'	8007'	
Liners Used			

Well treatment details:

Attach copy of cementing record.

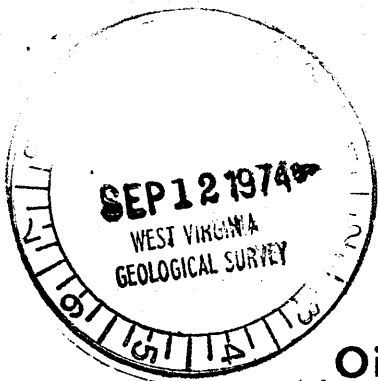
Treated with 1,595 Bbls. acid and gelled water and 43,000# 20/40 Sand

Coal was encountered at Open Mine 154-158 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Huntersville Chert Depth 7856'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Gray Sand			0	143		
Mine Shaft Silt			143	158		
Sand			158	200		
Sand & Red Shale			200	1204		
Shale & Red Rock			1204	2300		
Gray Shale & Shaley Sand			2300	4200		
Shale - Black & Gray			4200	7415		
Tully Lime			7415	7475		
Black Shale			7475	7837		
Onondaga			7837	7856		
<u>Huntersville Chert</u>			7856	8025		
Oriskany			8025	8090		
Helderberg			8090	8150		
Total Depth			8150			

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

SEP 11 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 Birdie Morgan
Address Reedsville, W. Va.
Mineral Owner Birdie Morgan
Address Reedsville, W. Va.
Coal Owner Birdie Morgan
Address Reedsville, W. Va.
Coal Operator None
Address _____

DATE September 10, 1974
Company Ray Resources Corporation
630 Commerce Square
Address Charleston, W. Va. 25301
Farm Birdie Morgan Acres 98
Location (waters) Mountain Run
Well No. 481 Elevation 1926'
District Valley County Preston
Quadrangle Masontown

THIS PERMIT MUST BE POSTED AT THE LOCATION

All provisions being in accordance with Chapter 20
of the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 1-11-75

Robert L. Blosser

Deputy Director - Oil & Gas Division
GENTLEMEN:

INSPECTOR TO BE NOTIFIED Richard Morris
c/o Wm. Blosser PH: 366-1913
CoIfax, W.Va. 26566

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 May 22 1974 by Birdie Morgan, et al made to Consolidated Gas Supply Corp. and recorded on the _____ day of _____ 19____, in Preston County, Book _____ Page _____
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.

Very truly yours, RAY RESOURCES CORPORATION
(Sign Name) William D. Morris
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOLOGICAL LOGS DIRECTLY TO:
West Virginia Geological and Economic Survey
P. O. Box 379
Martinsburg, W. Va. 26505
C 304-236-4461

Address
of
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.

**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: 8000' 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	8000 Ft.	8000 Ft.	200 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 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.