



New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure 1 in 500  
 Source of Elevation BM at bridge abutment over Deckers Creek, by R.R. Milepost 15, elev. 1693.03  
 "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. F.D.O.C.  
 Address 630 Commerce Sq, Charleston W.V.  
 Farm Orpha E. Reed, Donald W. Reed  
 Tract 2 Acres 10 3/8 Lease No. 136463  
 Well (Farm) No. \_\_\_\_\_ Serial No. 786  
 Elevation (Spirit Level) 1873.63' SE  
 Quadrangle Masontown (SE/4 Morgantown)  
 County Preston District Valley  
 Surveyor Earl Holley  
 Surveyor's Registration No. W.V. L.L.S. 219  
 File No. 77-100 Drawing No. A  
 Date 23 Jun 77 Scale 1" = 500'

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. PRES-187

+ 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 OCT 7 1977

7150 5-5 South Burns Chapel (313) Deep Well



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

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DEC 13 1977

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD

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

Quadrangle Masontown - 7-1/2"

Permit No. Pres-187

RAY RESOURCES, DIVISION OF

Company FLYING DIAMOND OIL CORPORATION  
Address 630 Commerce Sq., Charleston, W.V.  
Farm Orpha Reed Acres 52  
Location (waters) Slabcamp Run  
Well No. 786 Elev. 1873.63  
District Valley County Preston  
The surface of tract is owned in fee by Donald W. Reed  
Address Rt. 1, Bx. 252, Reedsville, W. Va.  
Mineral rights are owned by Same as Above  
Address \_\_\_\_\_  
Drilling Commenced 10-20-77  
Drilling Completed 11-19-77  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 4,071M cu. ft. per day \_\_\_\_\_ bbls.  
Well open 72 hrs. before test 3300 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 13-3/8	140'	140'	120 Sks.
9 5/8	1370'	1370'	400 Sks.
8 5/8			
7			
5 1/2			
4 1/2	7956'	7956'	270 Sks.
3			
2 -3/8"	7940'	7940'	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Chert frac'd with 1455 gals. of water, 30,000# 80/100 sand, 22,000# 20/40 sand and 5300 gals. of 28% acid.  
Average injection rate - 37 BPM 4,071 mcf  
Average treating pressure - 4553#  
Immediate shut in pressure - 3300#; after 15 minutes - 2000#  
Coal was encountered at 55' to 60' Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Chert Huntersville Depth 7675 - 7845

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
K.B. to G.L.			0	14		
Snad & dirt			14	20		
Sandstone & Shale			20	55		
Coal Show			55	60		Water - 60 feet
No Returns			60	154		Lost circ. 60'. 154' set 13-3/8" casing.
Shale & Slate			154	220		Water - 170'
Sand			220	260		
Shale & Sand			260	325		
Sand			325	375		Water - 340'
Shale			375	395		
Sand			395	490		
Sand & Shale			490	670		
Snady Lime			670	710		
RR & Shale			710	865		
Lime			865	1025		
Sand & Shale			1025	1394		Set 9-5/8" casing.
Sand & Shale			1394	1625		
Shale			1625	1720		
Sand			1720	1770		
Shale w/RR			1770	1965		
Sand			1965	2030		
Shale			2030	2640		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 7	Bottom Feet	Oil, Gas or Water	Remarks
Sand			2640	2810		Survey 2763'
Shale			2810	7254		
Tully Lime			7254	7345		
M-Shale			7345	7660		
Onondaga Lime			7660	7675		
Chert			7675	7845		
Oriskany			7845	7900		
Helderberg			7900	<u>8007</u>		<u>TOTAL DEPTH</u>
						<p>7660 7845 - 7900</p> <p><u>1874 1874</u></p> <p>5786 5971</p>
						Pres 187

Date December 8, 19 77  
 RAY RESOURCES, DIVISION OF  
 APPROVED FLYING DIAMOND OIL CORPORATION Owner  
 By Tom Hazdale  
 Vice-President (Title)  
 Exploration



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

SEP 16 1977

W. VA. OIL & GAS  
CONSERVATION COMMISSION

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Donald W. Reed  
Address Rt. 1, Bx. 252, Reedsville, W. Va.  
Mineral Owner Same as above  
Address \_\_\_\_\_  
Coal Owner Sandy Creek Fuel Company  
Address Kingwood, W. Va.  
Coal Operator None  
Address \_\_\_\_\_

DATE August 31, 1977  
Company RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION  
Address 630 Commerce Sq., Charleston, W. Va.  
Farm Orpha Reed Acres 52  
Location (waters) Slabcamp Run  
Well No. 786 Elevation 1873.63  
District Valley County Preston  
Quadrangle Masontown - 7-1/2"

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All conditions 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 1-19-78.

INSPECTOR  
TO BE NOTIFIED William Blosser  
ADDRESS P. O. Bx. 1028, Colfax, W. Va. 26566  
PHONE 363-9105 (Fairmont)

[Signature]  
Deputy Director - Oil & Gas Division

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 dated May 15, 1977 by Consolidated Gas made to Ray Resources, Div. of FDOC 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, RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION  
(Sign Name) Tom Rogsdale  
Well Operator

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

W. VA. OIL & GAS CONSERVATION COMMISSION  
1613 WASHINGTON STREET, EAST  
CHARLESTON, WEST VIRGINIA 25311

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.

BLANKET BOND

PRES-187

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-6 and will carry out the specified requirements."

47-077

Signed by

Tom Rogsdale

Survey

**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) RESPONSIBLE AGENT:  
 NAME Ray Resources, Division of F.D.O.C. NAME Bill Endicott  
 ADDRESS 630 Commerce Sq., Charleston, W. Va. ADDRESS Box 234, Culloden, W. Va.  
 TELEPHONE 344-8393 TELEPHONE 743-9067  
 ESTIMATED DEPTH OF COMPLETED WELL: 7950' ROTARY XXX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XXX 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	60'	60'	To Surface
13 - 10			
9 - 5/8	1350'	1350'	To Surface
8 - 5/8			
7			
5 1/2			
4 1/2	7950'	7950'	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 \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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