

Latitude 39° 35' 00"

Longitude 79° 47' 30"
(15')

Benjamin G. Reeder

Miles L. Cobun

Benjamin G. Reeder

Mae Warrick

Well 788
(CNG #12459)

Corrected 15' bearing
S 2.26
W 3.35

2250
112W
7 1/2' topo loc.

Note: bearings match bearings used on Well 787 location plat.

corners gone due to strip mining

chiseled stone found

reset corner

leaning W.O.

R.R. rail driven in ground

New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 in 500
 Source of Elevation B.M. 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. FDOC
 Address 630 Commerce Sq Charleston W.V.
 Farm Miles L. Cobun Unit
 Tract _____ Acres 127.1 Lease No. 91132
 Well (Farm) No. _____ Serial No. 788
 Elevation (Spirit Level) 1782.2' CNG #12459
 Quadrangle Masontown (SE/4 Morgantown)
 County Preston District Valley
 Surveyor Earl Nolley L.L.S.
 Surveyor's Registration No. W.V. Lic. No. 219
 File No. 77-100 Drawing No. C-R
 Date 10 Nov 77 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. PRES-189

SE 15'
 + Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

47-077 JAN 13 1978

7900-ORISKANY SOUTH BURNS CHAPEL 313



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

RECEIVED
JUN 15 1978
OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Masontown, (SE/4 Morgantown)

Permit No. Pres-189

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

RAY RESOURCES, DIVISION OF
Company FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Charleston, WV
Farm Miles L. Cobun Unit Acres 127.1
Location (waters) Decker's Creek
Well No. 788 Elev. 1782.2'
District Valley County Preston
The surface of tract is owned in fee by _____
Sandy Creek Fuel Co.
Address Kingwood, W. Va.
Mineral rights are owned by Miles L. Cobun
Address 266 Caddell St., Mgtm. WV
Drilling Commenced 2/3/78
Drilling Completed 2/24/78
Initial open flow _____ cu. ft. _____ bbls.
Final production 3342MCF cu. ft. per day _____ bbls.
Well open _____ hrs. before test 3475 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"	90.45	90.45	100 Sks.
9 5/8	1249.00	1249.00	325 Sks.
8 5/8			
7			
5 1/2			
4 1/2	7954.18	7954.18	270 Sks.
3			
2 -3/8"	7697.51	7697.51	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Oriskany frac'd with 60,000 20/40 Sand, 60,000 80/100 Sand, 5500 gal. of acid
Average injection rate - 37 BPM
Average treating pressure - 4960#
Immediate shut in pressure - 3700#; after 30 min. - 3000#

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Oriskany Depth 7795' - 7850'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
K. B. Sand			14	55		Water @ 24'
Shale			55	100		
Sand			100	175		
Shale			175	445		
Sand			445	465		
Shale			465	480		
Sand			480	510		
Shale			510	550		
Sand			550	565		
Shale & Sand			565	820		
Sand			820	1125		
Sandy Lime			1125	1245		
Sand			1245	1370		
Shale			1370	1510		
Sand			1510	1560		
Shale & Sand			1560	1695		
Shale & RR			1695	1750		
Sand			1750	1965		
Shale & RR			1965	1995		
Sand & Shale			1995	2110		
Sand			2110	2260		
Shale & Sand			2260	7207		
Shale			7207	7272		
Tully Lime			7272	7615		
Shale						

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	* Remarks
Onondago			7615	7635		
Chert			7635	7795		
Oriskany			7795	7850		
Lime & Shale			7850	7919		
HELDERBERG						
					TOTAL DEPTH	

Date June 6, 1978

RAY RESOURCES, DIVISION OF
 APPROVED FLYING DIAMOND OIL CORPORATION

By *Tom Hagedorn*
 Vice-President, Exploration



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN - 4 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Sandy Creek Fuel Company
Address Kingwood, W. Va.
Mineral Owner Miles L. Cobun
Address 266 Caddell St., Morgantown,
Coal Owner _____
Address _____
Coal Operator _____
Address _____

DATE January 2, 1978
Company RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Charleston, WV
Farm Miles L. Cobun Unit Acres 127.1
Location (waters) Decker's Creek
Well No. 788 Elevation 1782.2'
District Valley County Preston
Quadrangle Masontown, (SE/4 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 5-5-78.

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. FDOC and recorded on the _____ day of _____ 19____, in _____ 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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours,
[Signature]
(Sign Name) _____
Well Operator

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

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

Signed by [Signature]

PRES-189 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, Division of F.D.O.C. NAME Bill Endicott
 ADDRESS 630 Commerce Square, Charleston, WV ADDRESS Box 234, Culloden, WV
 TELEPHONE 344-8393 TELEPHONE 743-9067
 ESTIMATED DEPTH OF COMPLETED WELL: 7900' 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 13-3/8"	90'	90'	To Surface
9 - 5/8	1250'	1250'	
8 - 5/8			
7			
5 1/2			
4 1/2	7900'	7900'	200 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 30 feet
 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