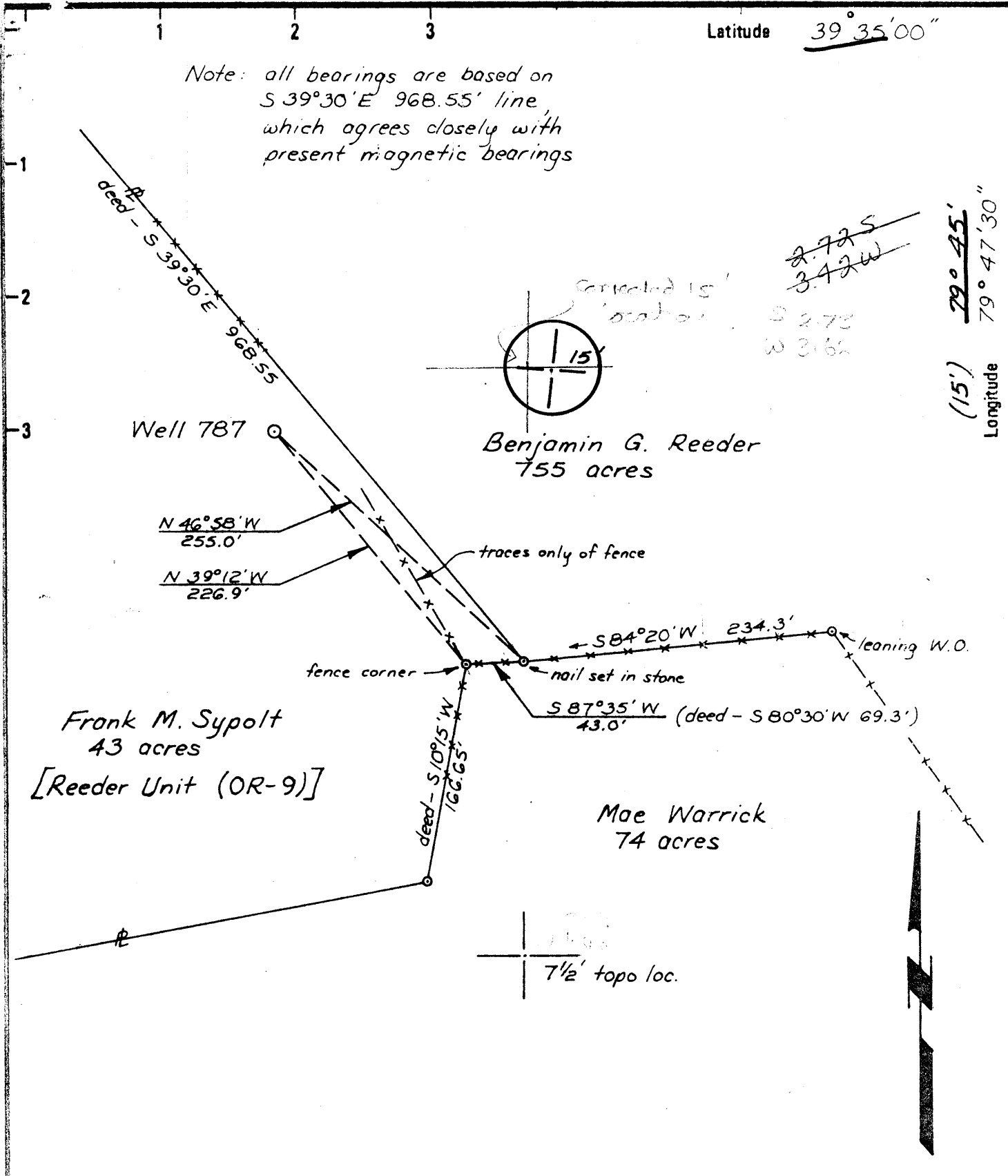


Latitude 39° 35' 00"

Note: all bearings are based on S 39° 30' E 968.55' line, which agrees closely with present magnetic bearings



Longitude 79° 47' 30"
(15') 79° 45'

~~2.725~~
~~3.42W~~
2.72
W 3.62

New Location
Drill Deeper
Abandonment

Minimum Error of Closure 1 in 500
Source of Elevation B.M. at bridge abutment over Deckers Ck. by RR 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 Frank M. Sypolt
Tract _____ Acres 43 Lease No. 87353 Consolidated
Well (Farm) No. _____ Serial No. 787
Elevation (Spirit Level) 1798.05' SE
Quadrangle Masontown (SE) 4 Morgantown
County Preston District Valley
Surveyor Earl Halley L.L.S.
Surveyor's Registration No. W.V. Lic. No. 219
File No. 77-100 Drawing No. B-R
Date 10 Nov 77 Scale 1" = 100'

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

WELL LOCATION MAP
FILE NO. PRES-188

+ 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 DEC 15 1977

Deep Well 7875' on 6-6 South Burns Chapel (313)



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MAR - 8 1978

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 5

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

Quadrangle Masontown (SE/4 Morgantown)

Permit No. Pres-188

RAY RESOURCES, DIVISION OF

Company FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Charleston, WV
Farm Frank M. Sypolt Acres 43
Location (waters) Decker's Creek
Well No. 787 Elev. 1798.05
District Valley County Preston
The surface of tract is owned in fee by Frank M. Sypolt
Address Rt. 1, Box 263, Reedsville, W. Va.
Mineral rights are owned by Same as Above
Address _____
Drilling Commenced 12-6-77
Drilling Completed 1-17-78
Initial open flow _____ cu. ft. _____ bbls.
Final production 5892M cu. ft. per day _____ bbls.
Well open 8 hrs. before test 3424 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"	89.70	89.70	60 Sks.
9 5/8	1368.	1368.	425 Sks.
8 5/8			
7			
5 1/2			
4 1/2	7927.	7927.	270 Sks.
3			
2			
Liners Used			

Well treatment details:

(3% Acid) Attach copy of cementing record.
Oriskany frac'd with 1353 bbls. of water, 105,000 lbs. of Sand and 5500 gal. of acid. (28%
Average treating pressure - 4953#
Immediate Shut-in pressure - 3200#; after 15 minutes - 2750#
Average injection rate - 39.1 BPM

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Chert & Oriskany Depth 7596-7855

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
K B. M			0	14		
Clay & Sandstone			14	24		Water approx. 24'
Shale & Sand			24	330		
Sand			330	410		Water approx. 210'
Shale			410	450		
Sand & Shale			450	555		
R.R. & Shale			555	580		
Shale			580	630		
Sand			630	670		
Shale & R.R.			670	830		
Lime			830	1050		
Shale			1050	1115		
Sand			1115	1245		
Sandy Shale			1245	1335		
Shale			1335	1390		
Sand & Shale			1390	1405		
Shale			1405	1455		
Sand & Shale			1455	1890		
Shale & R.R.			1890	2635		
Sand & R.R.			2635	2775		
Shale & R.R.			2775	3055		
Sand			3055	3260		
Shale			3260	3400		
Lime & Slate			3400	3480		

*P.I. card perf @
7645-47
7652-58
7660-65
7671-78
7681-91
7698-7716
7730-33
7764-68*

(over)

* Indicates Electric Log tops in the remarks section.

MAR 13 1978

Pres 180

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			3480	4385		
Sand & Shale			4385	6600		
Shale w/sandstring			6600	7195	7581	7805
Lime (Tully)			7195	7275		
Shale			7275	7581	1798	
Onandaga Lime			7581	7596		
Chert			7596	7805	- 5783	6007
Oriskany Sand			7805	7855		
H - Lime			7855	7928		
					<u>TOTAL DEPTH</u>	

Date March 7, 19 78

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

By Frank Logsdale
Vice President - (Title)
Exploration



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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DEC 1 - 1977

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 23, 1977
 Surface Owner Frank M. Sypolt Company RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
 Address Rt. 1, Box 263, Reedsville, W. Va. Address 630 Commerce Sq., Charleston, WV
 Mineral Owner Same as Above Farm Frank M. Sypolt Acres 43
 Address Same as Above Location (waters) Decker's Creek
 Coal Owner _____ Well No. 787 Elevation 1798.05
 Address _____ District Valley County Preston
 Coal Operator _____ Quadrangle Masontown (SE/4 Morgantown)
 Address _____

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 4-2-78.

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) ^{Assignment} ~~under grant or lease~~ dated May 15, 1977 by Consolidated Gas made to Ray Resources, Div. FDOC and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

_____ 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,
 (Sign Name) *[Signature]*
 Well Operator

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

630 Commerce Square
 Street
 Charleston,
 City or Town
 West Virginia
 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-188 PERMIT NUMBER

"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."

47-077

Signed by *[Signature]*

**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 FDOC NAME Bill Endicott
 ADDRESS 630 Commerce Sq., Charleston, WV ADDRESS Box 234, Culloden, W. Va.
 TELEPHONE 344-8393 TELEPHONE 743-9067
 ESTIMATED DEPTH OF COMPLETED WELL: 7875' 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	1300'	1300'	
8 - 5/8			
7			
5 1/2			
4 1/2	7875'	7875'	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