



JOHN F. COTA, VICE PRESIDENT
ENGINEERING AND CONSTRUCTION ADMINISTRATION

MICHIGAN WISCONSIN PIPE LINE COMPANY
MEMBER OF THE AMERICAN NATURAL RESOURCES SYSTEM
June 7, 1979

H-2502-B
MW-OS-1A.2

Mr. John L. Rankin, Manager
New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
500 Camp Street, Suite 841
New Orleans, LA 70130

RE: Application for Right of Way of
a Proposed 24-Inch pipeline Located
From Block 137 South Marsh Island
Area, South Addition to Block 397,
Vermilion Area, South Addition,
Offshore Louisiana, Gulf of Mexico

Dear Mr. Rankin:

Pursuant to the authority granted in Section 5(c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat. 462), as amended by Public Law 95-372 effective September 18, 1978, and in compliance with the regulations contained in Title 43, Subpart 2883, Section 2883.1, Title 30, Subpart 250, Section 250.19 and the requirements contained in OCS Orders 8 and 9 issued January, 1977, Michigan Wisconsin Pipe Line Company hereby applies, in triplicate, for the installation of a 24-inch natural gas pipeline as shown on the following drawings:

Hazard Survey Report

Vicinity, Route, Profile and Cathodic Protection
Drawing No. 625-32-1

Safety Schematic Drawing No. PL-625-32-1

The 24-inch pipeline will be used to transport natural gas from the Block 397 platform, Vermilion Area, South Addition to a subsea tie-in located in Block 137, South Marsh Island Area, South Addition, Gulf of Mexico.

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In accordance with applicable regulations, the applicant agrees it will mail to each lessee or right of way holder whose lease or right of way is affected by this application, by registered mail, return receipt requested, a copy of the application and the maps attached hereto. A list of such lessees and right of way holders is attached and copies of the return receipts showing service upon such lessees and right of way holders will be forwarded to your office when received.

As set forth in the February 13, 1978 guidelines and amendments thereto, the applicant agrees to the following:

1. The 24-inch pipeline will not require burial inasmuch as the entire line is in water depths greater than 200 feet.
2. The proposed pipeline will cross the following existing pipelines:
 1. Shell 6-inch pipeline
 2. Marathon 8-inch pipeline
 3. Florida Gas 10-inch pipeline
3. All valves and fittings on the submerged pipeline will be buried to a minimum of one (1) foot below the mud line.
4. Sensing devices and fail close valves will be installed as shown on the enclosed Schematic Drawing No. PL-625-32-1.
5. Three (3) copies of the Hazard Survey Report prepared by John Chance and Associates, Inc. and approved for our use are enclosed.
6. All changes, additions or deletions to any equipment on the pipeline will be made only after first securing the expressed written approval of your office.
7. Your office will be notified at least five (5) days prior to commencing construction and will be advised of construction date, approximate starting time, starting point, name of contractor and barge, availability of heliport facilities and approximate completion date.
8. Your office will be notified forty-eight hours in advance of the hydrostatic test and will be advised of the location of the pressure recorder and approximate starting time of the test. Hydrostatic test data, including procedure, hold time and results will be furnished your office within ninety (90) days following the test.

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9. Within ninety (90) days after completion of construction, applicant will provide an as-built map establishing the location of the completed pipeline within an accuracy of +/- 100 feet, prepared in accordance with the requirements for the map depicting the proposed route reflecting the total length of the line (all in feet) and depicting those point, if any, at which the pipeline is located outside of the right of way.
10. Any break, leak failure or accident will be reported within twelve (12) hours after such occurrence as provided for in said guidelines.

Additional design criteria data is as follows:

1. The length of the 24-inch pipeline between the riser and the underwater tie-in will be 105,999 feet or 20.08 miles.
2. The line pipe will be:
24" O.D. x 0.518" W.T., API-5LX, X-60, 129.91 Lbs/Ft.
3. The riser pipe will be:
24" O.D. x 0.625" W.T., API-5LX, X-60, 156.03 Lbs/Ft.
4. The product to be transported by the pipeline is natural gas.
5. The water depth varies from 220 feet to 398 feet along the proposed right of way.
6. The cathodic protection system will be 450# zinc bracelets spaced on 715 foot centers.
7. The protective coating to be used on the 24-inch underwater line pipe will be 5/8-inch somastic and 5/32-inch of enamel for the riser pipe. The weight coating will consist of 60,999 feet of pipe coated with 140# concrete 3.86" thick with a specific gravity of 1.36, being installed from the northern end of the line south to the 275 foot contour, and 45,000 feet pipe coated with 140# concrete 2.68" thick with a specific gravity of 1.23 being installed from the 275 foot contour south to the Block 397 platform.

8. The 30-inch casing pipe used on the riser section will be coated with Endcor 750 Primer and 772 top coat.
9. The bulk specific gravity of the empty pipe in seawater is 1.36 for 60,999 feet of pipe with 3.86 inches of concrete and 1.23 specific gravity for the 45,000 feet of pipe with 2.68 inches of concrete.
10. The anticipated specific gravity of the natural gas is 0.60.
11. The operating pressure of the 24-inch pipeline will be 1300 psig.
Maximum Allowable Operating Pressure will be 1440 psig.

Maximum Allowable Operating Pressure based on line pipe is.

$$MAOP = \frac{2 ST}{D} \times F \times E \times T$$

$$MAOP = \frac{2(60,000) \times 0.518''}{(24)} \times 0.72 \times 1.0 \times 1.0 = 1864 \text{ psig}$$

Maximum Allowable Operating Pressure based on the riser piping is:

$$MAOP = \frac{2(60,000) \times 0.625''}{(24)} \times 0.50 \times 1.0 \times 1.0 = 1562 \text{ psig}$$

12. The design capacity of the 24-inch pipeline is 120 MMCFD.
13. The 24-inch pipeline will be hydrostatically tested at pressures ranging from 2460 psig to 2455 psig and held for 24 hours. The riser section will be pretested prior to installation to 2800 psig for 24 hours.
14. All piping, fittings, risers and components of the pipeline are designed in compliance with 49 CFR 192. Fittings are 600# ANSI or greater.
15. Construction information:

Estimated Starting Date:	September 1, 1979
Method of Construction:	Lay Barge
Method of Burial:	Bury Barge for Valves and Risers 0
Estimated Time Required to Lay and Bury Pipe:	60 days
Estimated Time to Complete Project:	60 days.

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Enclosed are three copies each of the maps and drawings referred to above, prepared and certified in accordance with applicable guidelines.

Michigan Wisconsin Pipe Line Company has previously filed all necessary papers required under Subparagraph 2883.1, Part (c) of the regulations, said filing being found in Qualification File Number 160 in your office.

Also enclosed please find three copies of the Nondiscrimination in Employment Statement executed by a Vice President of Michigan Wisconsin Pipe Line Company.

A filing fee of \$10.00, together with the first year's rental of \$105.00, computed on 20.03 miles of right of way, is enclosed.

If the above and attached information meets with your approval, we would appreciate your issuing the necessary permit for the right of way at your earliest convenience. Inquiries concerning this application may be directed to the applicant at P.O. Box 1762, Monroe, Louisiana 71201, Attention: Mr. W. K. Peaker, 318/387-1175.

Very truly yours,

MICHIGAN WISCONSIN PIPE LINE COMPANY

By: 

John F. Cota

TITLE: Vice President
Engineering and Construction
Administration

CORPORATE SEAL



NOTE: This form must be executed as an original.

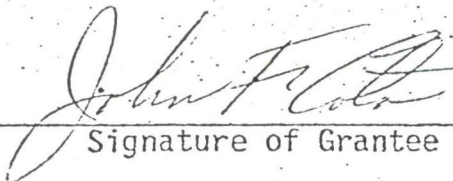
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee Michigan Wisconsin Pipe Line Company hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

During the performance of this contract the grantee agrees as follows:

During performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246 as revised (reprinted in 41 CFR 60-1.4(a)), which are for the purpose of preventing discrimination against persons on the basis of the race, color, religion, sex or national origin. Paragraphs (1) through (7) of section 202 of Executive Order 11246 as amended are incorporated in this grant by reference.



Signature of Grantee

Date: June 8, 1979

LEASES AND RIGHT OF WAY HOLDERS

BLOCK 137, SOUTH MARSH ISLAND AREA,
SOUTH ADDITIONAN TO BLOCK 397
VERMILLION AREA, SOUTH ADDITION

SOUTH MARSH ISLAND

Block 137

Oil & Gas Lease

OCS-G-2589

Continental Oil Company
Getty Oil Company
Cities Service Company

Pipelines

OCS-G-1950-H

Texas Eastern Transmission Corporation

OCS-G-3303-B

Marathon Pipe Line Company

OCS-G-3432

Shell Oil Company

OCS-G-3653

Michigan Wisconsin Pipe Line Company

OCS-G-3847

Michigan Wisconsin Pipe Line Company

OCS-G-4041

Michigan Wisconsin Pipe Line Company

Block 136

Oil & Gas Lease

OCS-G-2588

Continental Oil Company
Cities Service Company

Pipelines

OCS-G-1950-H

Texas Eastern Transmission Corporation

OCS-G-3303-B

Marathon Pipe Line Company

OCS-G-3432

Shell Oil Company

OCS-G-3825

Florida Gas Transmission Company

SOUTH MARSH ISLAND (Continued)

Block 149Oil & Gas Lease

OCS-G-2592

Shell Oil Company
 SONAT Exploration Company
 The Offshore Company
 Florida Gas Exploration Co.
 Barber Oil Exploration, Inc.
 Drillamex, Inc.

Pipelines

OCS-G-3432

OCS-G-3825

Shell Oil Company
 Florida Gas Transmission Co.

Block 150Oil & Gas Lease

OCS-G-3146

Shell Oil Company
 SONAT Exploration Company
 The Offshore Company
 Florida Gas Exploration Co.
 Barber Oil Exploration, Inc.
 Drillamex, Inc.

Block 151

NOT LEASED

VERMILION AREA

Block 355

NOT LEASED

Block 356

NOT LEASED

Block 357

NOT LEASED

VERMILION AREA (Continued)

Block 376

NOT LEASED

Block 379

Oil & Gas Lease

OCS-G-3579

Louisiana Land & Exploration Co.
Louisiana Land Offshore Exploration Co., Inc.
Marathon Oil Company
Texas Eastern Transmission Corporation
Canso Oil & Gas Co.
Aminoil, USA

Block 380

Oil & Gas Lease

OCS-G-2580

Texaco, Inc.

Block 397

Oil & Gas Lease

OCS-G-3141

Mesa Petroleum Co.
Santa Fe Energy Co.

ENGINEERING DATA

SOUTH MARSH ISLAND BLOCK 137 TO VERMILION AREA BLOCK 397

1. The 24-inch pipeline will not require burial inasmuch as the entire line is in water depths greater than 200 feet.
2. The proposed pipeline will cross three (3) pipelines.
3. All valves and fittings on the submerged pipeline will be buried to a minimum of one (1) foot below the mud line.
4. The length of the 24-inch pipeline between the riser and the under tie-in will be 105,999 feet or 20.08 miles.
5. The line pipe will be:
24" O.D. x 0.518" W.T., API-5LX, X-60, 129.91 Lbs/Ft.
6. The riser pipe will be:
24" O.D. x 0.625" W.T., API-5LX, X-60, 156.03 Lbs/Ft.
7. The water depth varies from 220 feet to 398 feet along the proposed right of way.
8. The cathodic protection system will be 450# zinc bracelets spaced on 715 foot centers.
9. The product to be transported by the pipeline is natural gas.
10. The protective coating to be used on the 24-inch underwater line pipe will be 5/8-inch somastic and 5/32-inch of enamel for the riser pipe. The weight coating will consist of 60,999 feet of pipe coated with 140# concrete 3.86" thick with a specific gravity of 1.36, being installed from the northern end of the line south to the 275 foot contour, and 45,000 feet pipe coated with 140# concrete 2.68" thick with a specific gravity of 1.23 being installed from the 275 foot contour south of the Block 397 platform.
11. The 30-inch casing pipe used on the riser section will be coated with Endcor 750 Primer and 772 top coat.
12. The bulk specific gravity of the empty pipe in seawater is 1.36 for the 60,752 feet of pipe with 3.86 inches of concrete and 1.23 specific gravity for the 45,000 feet of pipe with 2.68 inches of concrete.

13. The anticipated specific gravity of the natural gas is 0.60.
14. The design working pressure of the 24-inch pipeline segment will be 1440 psig. Maximum allowable operating pressure based on valves and flanges is 1440 psig (maximum working pressure of ANSI 600# valves and flanges). The operating pressure based on existing facilities will be 1300 psig.

Maximum allowable operating pressure based on line pipe is:

$$\text{MAOP} = \frac{2 \text{ ST}}{\text{D}} \times \text{F} \times \text{E} \times \text{T}$$

$$\text{MAOP} = \frac{2(60,000) \times 0.518''}{(24)} \times 0.72 \times 1.0 \times 1.0 = 1864 \text{ psig}$$

Maximum allowable operating pressure based on the riser piping is:

$$\text{MAOP} = \frac{2(60,000) \times 0.625''}{(24)} \times 0.50 \times 1.0 \times 1.0 = 1562 \text{ psig}$$

15. The design capacity of the 24-inch pipeline is 120 MMCFD.
16. The 24-inch pipeline will be hydrostatically tested at pressures ranging from 2460 psig to 2455 psig and held for 24 hours. The riser section will be pretested prior to installation to 2800 psig for 24 hours.
17. All piping, fittings, risers and components of the pipeline are designed in compliance with 49 CFR 192.
18. Construction information:
 - A. Estimated Starting Date: September 1, 1979
 - B. Method of Construction: Lay Barge
 - C. Method of Burial: Bury Barge for Valves and Risers On
 - D. Estimated time required to lay and bury pipe: 60 days
 - E. Estimated time to complete project: 60 days
19. Company Contact: W. K. Peaker, Project Manager, Offshore
Ford, Bacon & Davis Construction Corporation
P.O. Box 1762 Monroe, Louisiana 71201
Telephone 318-387-1175