

South Pass 62 A&B

Permit

JOINT APPLICATION AND NOTIFICATION

RECEIVED

NOV 01 2024

U.S. ARMY CORPS OF ENGINEERS

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY/OFFICE OF POLLUTION CONTROL

Mississippi Dept of Marine Resources

WETLANDS PERMITTING

This form is to be used for proposed activities in waters of the United States in Mississippi and for the erection of structures on suitable sites for water dependent industry. Note that some items, as indicated, apply only to projects located in the coastal area of Hancock, Harrison and Jackson Counties.

Date
11/1/2024
month day year

2. Applicant name, mailing address, phone number and email address: Mississippi Department of Marine Resources 1141 Bayview Ave Biloxi, MS 39530	Agent name, mailing address, phone number and email address: Travis Williams 1141 Bayview Ave. Biloxi, MS 39530 travis.williams@dmr.ms.gov	3. Official use only COE _____ DMR _____ DEQ _____ A95 _____ DATE RECEIVED _____
--	---	--

4. Project location
Street Address N/A City/Community N/A
Name of Waterway Gulf of Mexico Latitude See attached Longitude (if known) see attached
Geographic location: Section _____ Township _____ Range _____ County _____

5. Project description
New work _____ Maintenance work X

Dredging

Channel	length	width	existing depth	proposed depth
Canal	length	width	existing depth	proposed depth
Boat Slip	length	width	existing depth	proposed depth
Marina	length	width	existing depth	proposed depth
Other-Mooring Basin	length	width	existing depth	proposed depth

Cubic yards of material to be removed _____ Type of material _____
Location of spoil disposal area _____
Dimensions of spoil area _____ Method of excavation _____
How will excavated material be contained? _____

Construction of structures

Bulkhead	Total length	Height above water	
Pier	length	width	height
Boat Ramp	length	width	slope
Boat House	length	width	height

_____ Structures on designed sites for water dependent industry (Coastal area only). Explain in item 11 or include as attachment.
X Other (explain) Rigs to Reef site South Pass 62 A&B

Filling
Dimensions of fill area _____
Cubic yards of fill _____ Type of fill obsolete oil and gas platforms/jackets/structures

Other regulated activities (i.e. Seismic exploration, burning or clearing of marsh) Explain.

6. Additional information relating to the proposed activity

Does project area contain any marsh vegetation? Yes _____ No

(If yes, explain) _____

Is any portion of the activity for which authorization is sought now complete? Yes _____ No

(If yes, explain) _____

Month and year activity took place _____

If project is for maintenance work on existing structures or existing channels, describe legal authorization for the existing work. Provide permit number, dates or other form(s) of authorization. SAM-2006-00189-ALF

Has any agency denied approval for the activity described herein or for any activity that is directly related to the activity described herein?

Yes _____ No (if yes, explain) _____

7. Project schedule

Proposed start date March 1, 2025 Proposed completion date _____

Expected completion date (or development timetable) for any projects dependent on the activity described herein. _____

8. Estimated cost of the project Unknown

9. Describe the purpose of this project. Describe the relationship between this project and any secondary or future development the project is designed to support. Provide artificial reef habitat to enhance fishing and diving opportunities and to provide a more diverse and essential habitat for reef dependent/associate fish and invertebrate species.

This reef site will save the loss of valuable reef habitat in the Gulf of Mexico (see attachment EA).

Intended use: Private _____ Commercial _____ Public Other (Explain) _____

10. Describe the public benefits of the proposed activity and of the projects dependent on the proposed activity.

Also describe the extent of public use of the proposed project.

The public will benefit by enhancing recreational and commercial fishing opportunities.

11. Narrative Project Description:

Mississippi Department of Marine Resources is proposing to renew two permitted reef sites in South Pass 62 which encompasses two previously reefed jackets. The reef sites also provide enough area for four more platforms in 62B.

12. Provide the names and addresses of the adjacent property owners. Also identify the property owners on the plan view of the drawing described in Attachment "A". (Attach additional sheets if necessary.)

1.

2.

13. List all approvals or certifications received or applied for from Federal, State and Local agencies for any structures, construction, discharges, deposits or other activities described in this application. Note that the signature in Item 14 certifies that application has been made to or that permits are not required from the following agencies. If permits are not required, place N/A in the space for Type Approval.

<u>Agency</u>	<u>Type Approval</u>	<u>Application Date</u>	<u>Approval Date</u>
Dept. of Environmental Quality			
Dept. of Marine Resources			
Army Corps of Engineers			
City/County_____			
Other_____			

14. Certification and signatures

Application is hereby made for authorization to conduct the activities described herein. I agree to provide any additional information/data that may be necessary to provide reasonable assurance or evidence to show that the proposed project will comply with the applicable state water quality standards or other environmental protection standards both during construction and after the project is completed. I also agree to provide entry to the project site for inspectors from the environmental protection agencies for the purpose of making preliminary analyses of the site and monitoring permitted works. I certify that I am familiar with and responsible for the information contained in this application, and that to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I am the owner of the property where the proposed project is located or that I have a legal interest in the property and that I have full legal authority to seek this permit.

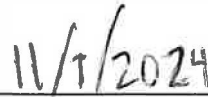
U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willingly falsifies, conceals, or covers up by any trick, scheme or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both.

Mississippi Coastal Program (Coastal area only)

I certify that the proposed project for which authorization is sought complies with the approved Mississippi Coastal Program and will be conducted in a manner consistent with the program.



Signature of Applicant or Agent



Date

15. Fees

Payable to MS Dept. of Marine Resources
\$50.00 Single-family residential application fee
\$500.00 Commercial application fee
Public notice fee may be required

Please include appropriate fees for all projects proposed in coastal areas of Hancock, Harrison and Jackson Counties.

16. If project is in Hancock, Harrison or Jackson Counties, send one completed copy of this application form and appropriate fees listed in Item 15 to:

Department of Marine Resources
Bureau of Wetlands Permitting
1141 Bayview Avenue
Biloxi, MS 39530
(228) 374-5000

If project IS NOT in Hancock, Harrison or Jackson Counties, send one completed copy of this application form to each agency listed below:

District Engineer
Mobile District
Attn: CESAM-RD
P.O. Box 2288
Mobile, AL 36628-0001

District Engineer
Vicksburg District
Regulatory Branch
Attn: CEMVK-OD-F
4155 Clay Street
Vicksburg, MS 39183-3435

Director
Mississippi Dept. of Environmental Quality
Office of Pollution Control
P.O. Box 10385
Jackson, MS 39289

17. In addition to the completed application form, the following attachments are required:

Attachment "A" Drawings

Provide a vicinity map showing the location of the proposed site along with a written description of how to reach the site from major highways or landmarks. Provide accurate drawings of the project site with proposed activities shown in detail. All drawings must be to scale or with dimensions noted on drawings and must show a plan view and cross section or elevation. Use 8 1/2 x 11" white paper or drawing sheet attached.

Attachment "B" Authorized Agent

If applicant desires to have an agent or consultant act in his behalf for permit coordination, a signed authorization designating said agent must be provided with the application forms. The authorized agent named may sign the application forms and the consistency statement.

Attachment "C" Environmental Assessment (Coastal Area Only)

Provide an appropriate report or statement assessing environmental impacts of the proposed activity and the final project dependent on it. The project's effects on the wetlands and the effects on the life dependent on them should be addressed. Also provide a complete description of any measures to be taken to reduce detrimental offsite effects to the coastal wetlands during and after the proposed activity. Alternative analysis, minimization and mitigation information may be required to complete project evaluation.

Attachment "D" Variance or Revisions to Mississippi Coastal Program (Coastal area only)

If the applicant is requesting a variance to the guidelines in Section 2, Part III or a revision to the Coastal Wetlands Use Plan in Section 2, Part IV of the Rules, Regulations, Guidelines and Procedures of the Mississippi Coastal Program, a request and justification must be provided.

Attachment "A" Drawings

Gulfport

Eiloxi

MP 185

MP 138

MP 132

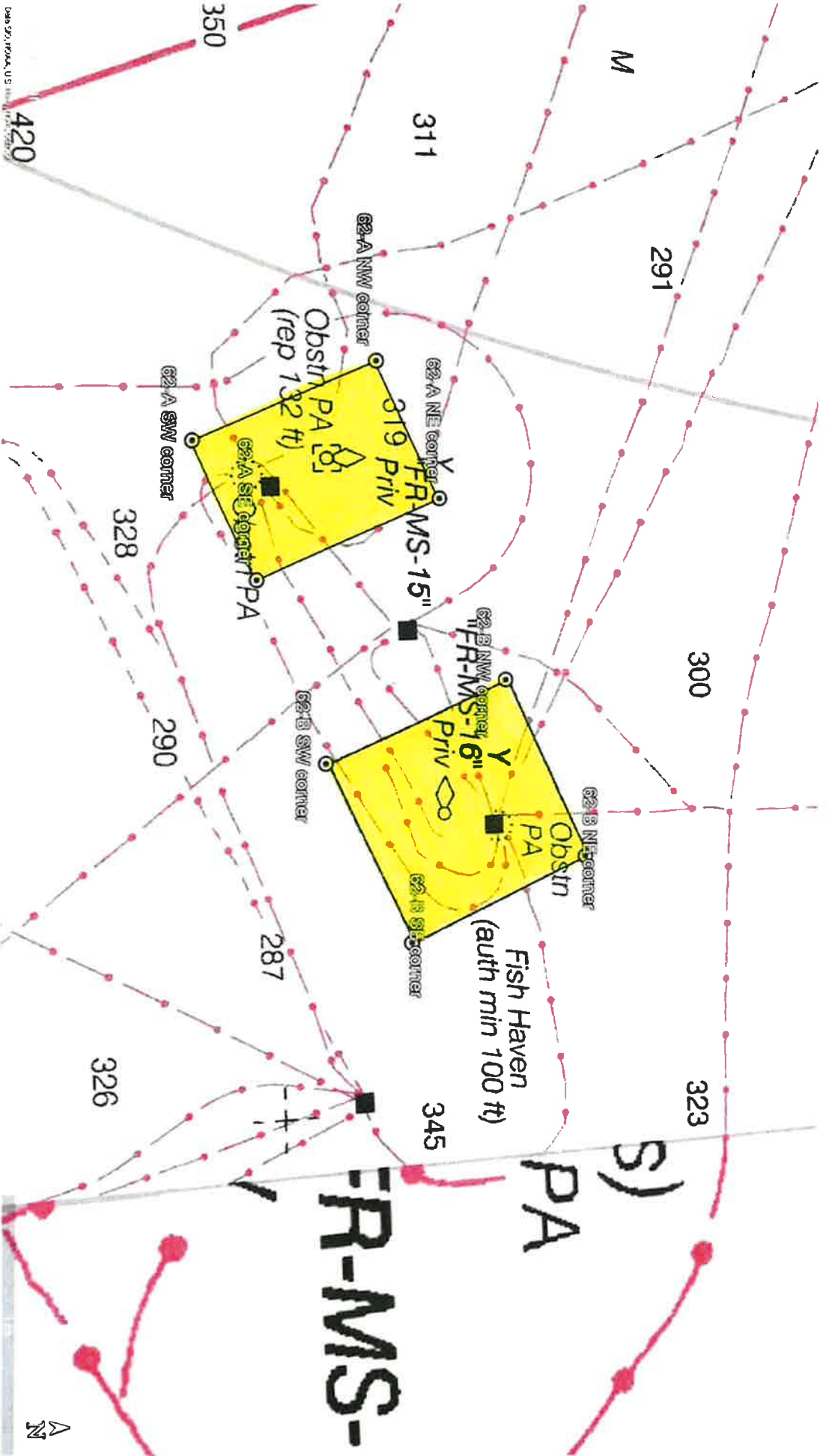
MP 290

MP 280

MP 312

SP 62 B

SP 62 A



Date: 05/17/2024, U.S.

(use chart 11363)

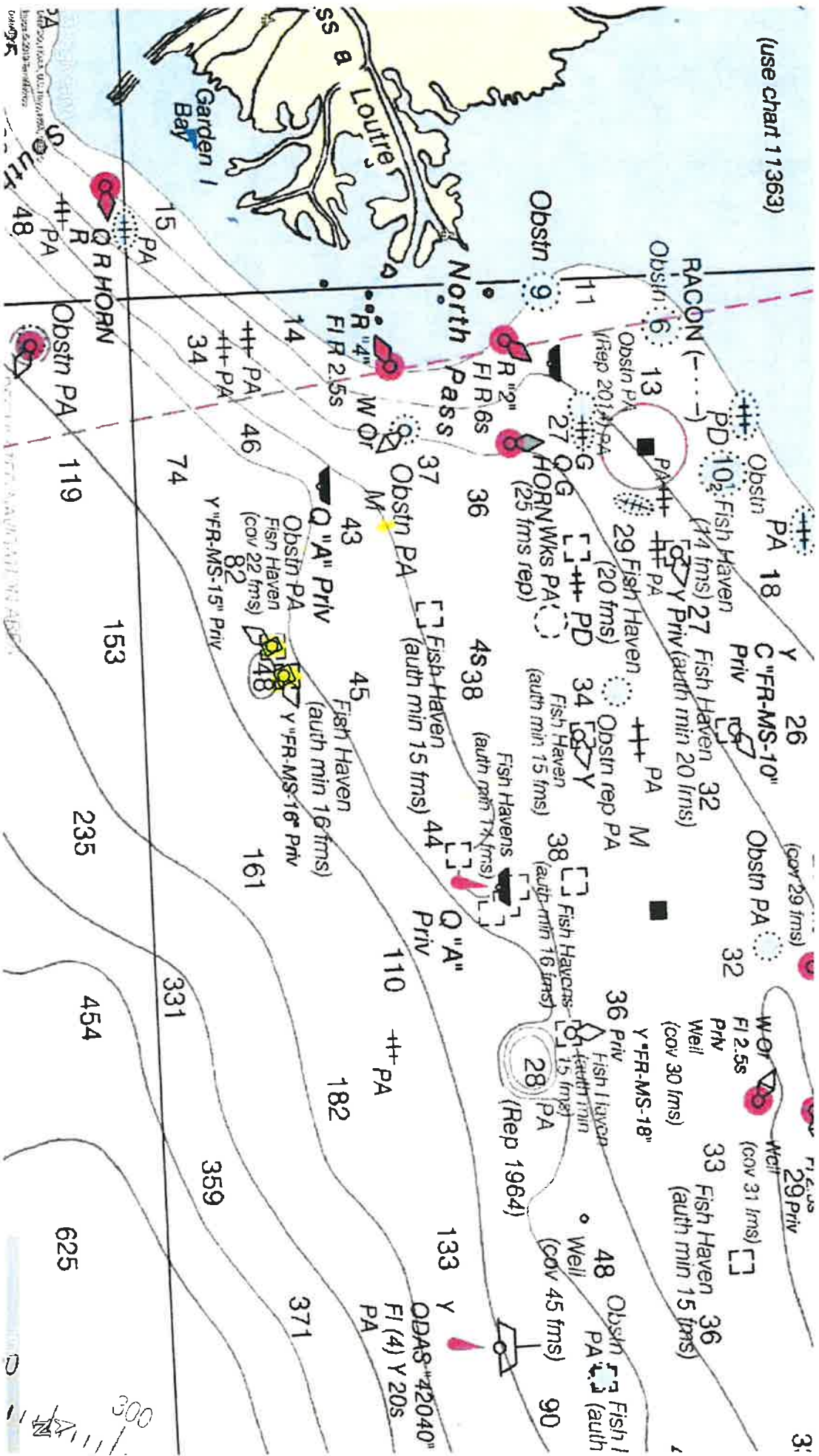


Chart 11363
Basis 2013
Copyright 2013

Environmental **Assessment**

ENVIRONMENTAL ASSESSMENT FOR, SOUTH PASS 62 A&B, GULF OF MEXICO

Project Description

South Pass 62 A&B is located approximately 80 miles south of Biloxi. Mean low low water (MLLW) depth on the project site is approximately 330 feet. The seafloor in this reef zone is mud and sand. Structures within this reef zone will consist of oil and gas platforms, jackets, and structures. The reef zone consists of two four-sided polygons referred to as "62A" and "62B". Site 62A will have no new deployments and 62B has room for four more structures.

Project Purpose and Need

Oil and gas platforms have proven to be excellent artificial reef material. The National Artificial Reef Plan cites five major characteristics or standards for artificial reef materials. These standards include function, compatibility, durability, stability, and availability. Oil and gas platforms possess all of these characteristics.

Oil and gas platforms have been proven to function extremely well as artificial reefs by providing habitat for a variety of species that are otherwise only associated with other types of hard bottom habitat such as coral reefs. According to Reggio (1987), over 70 percent of all recreational angler trips in the Exclusive Economic Zone in Louisiana and adjacent states are destined for one or more of these structures. The steel construction of the platform provides suitable habitat substrate for many of the encrusting organisms that are critically important in the development of the reef habitat. Dominant species that use these structures include Red Snapper (*Lutjanus campechanus*), Bluefish (*Pomatomus saltatrix*), Atlantic Spadefish (*Balistes capiscs*), grunts (*Hamulidae*), Greater Amberjack (*Seriola dumerili*), Sheepshead (*Archosargus probatocephalus*), and groupers (*Serranidae*) (Gallaway, 1980).

Because only the jacket of the structure or other structural components that have not been exposed to hydrocarbons are used, these structures have proven to be very compatible with the marine environment. Reefs constructed of oil and gas platforms are very durable, stable and rarely, if ever, move once placed. In August 1992, Hurricane Andre, a class four storm with winds over 140 mph, struck the norther Gulf of Mexico. This hurricane destroyed or damaged over 181 active platforms and caissons. Wilson and Stanley (1994) conducted side san surveys on two artificial reefs constructed with oil and gas platform jackets. Their survey indicated no detectable movement of the platform jackets.

Alternatives Analysis

Several project alternatives and combinations of alternatives were evaluated as part of the

project assessment. The most obvious is the “No Action” alternative. This would mean a loss of important potential reef habitat that is provided by the platform jacket. According to the Continental Shelf Associates (1982), abundance of reef fishes on the oil and gas platform jackets ranges from a few hundred to several thousands. If decommissioned drilling platforms and legs are removed and not utilized as an artificial reef, a loss of valuable reef habitat will have negative long-term impact on overall reef fish populations.

Construction Method

Decommissioned oil rigs, platforms, and structures will be towed to and deployed within the permitted zone by methods determined by contractors hired to do so.

Description of Listed Species

The species listed as being threatened or endangered by the National Marine Fisheries Service (NMFS) are: Fin Whale, Sei Whale, Sperm Whale, Green Sea Turtle, Hawksbill Sea Turtle, Kemp’s Ridley sea Turtle, Leatherback Sea Turtle, Loggerhead Sea turtle, and the Gulf Sturgeon. Of these species, the four mammal species are not known to migrate within the proposed action area and no effect or impact is anticipated. The ranges of five of the listed sea turtle species could potentially extend into Mississippi state waters, but apart from the Loggerhead Sea Turtle, there is no Critical Habitat defined within the Gulf of Mexico.

Loggerhead Sea Turtle

The proposed artificial reef zone will not negatively affect Loggerhead Sea Turtle Habitat. Critical Habitat for the Loggerhead Sea Turtle has only been designated in the northwestern and southeastern Gulf of Mexico. Loggerhead Nearshore Reproductive Habitat (NRH) has been designated on the south side of the barrier Islands but the nearest NRH is seven miles from South Pass 62 A&B.

Gulf Sturgeon

Tagging data from Ross et al., 2001, indicate that over wintering Gulf sturgeon forage on a sandy substrate around the Mississippi barrier islands and in the passes in Mississippi’s marine waters. The project is located approximately 65 miles south of the nearest Gulf Sturgeon Critical Habitat as designated by NMFS. South Pass 62 A&B will in no way influence the riverine spawning habitat, normal water pattern flows, water quality, sediment quality and migratory pathway of the Gulf Sturgeon within the project site or within Mississippi’s waters.

Effects of the Artificial Reef Zone

There will be no adverse effects to the Loggerhead Sea Turtle or the Gulf Sturgeon associated with SOUTH PASS 62 A&B because: the turtles are mobile and will likely avoid the construction operations and will return to the area following the completion of the project, and the Sturgeon are not anticipated to venture far enough away from their feeding habitat to be encountered during the construction/deployments that will occur within the permitted area. In the long term, South Pass 62 A&B should benefit the Loggerhead Sea Turtle. The project will increase foraging habitat for the sea turtles by the additional macro invertebrates that will be inhabiting the proposed artificial reef.

Section 7 Checklist

**USACE Biological Assessment &
NMFS Endangered Species Act Section 7 Checklist**

A) Project Identification

Lead Action Agency

U.S. Army Corps of Engineers

Agency Contact:

Travis

Williams

Applicant Name:

Mississippi Department of Marine Resources (MDMR)

Project Name & ID #:

South Pass 62 A&B

B) Project Location

1. Address and description of property:

South Pass 62 A&B (SP 62 A&B) is located approximately 85 miles south of Biloxi. Mean low water depth on the project site is approximately 330 feet. The seafloor in this reef zone is mud and sand. Structures within this reef zone shall consist of oil platforms, jackets, and structures. The reef zone consists of two four-sided polygons referred to as "62A" and "62B". Site 62A will have no new deployments and 62B has room for four more structures.

2. Latitude & Longitude:

The proposed reef zone 62A will have corner points at the following coordinates:

NW: 29.086667 / -88.750533

NE: 29.089867 / -88.741867

SE: 29.079717 / -88.737033

SW: 29.076533 / -88.7457

The proposed reef zone 62B will have corner points at the following coordinates:

NW: 29.093167 / -88.730267

NE: 29.097483 / -88.718733

SE: 29.08735 / -88.7139

SW: 29.0831 / -88.72545

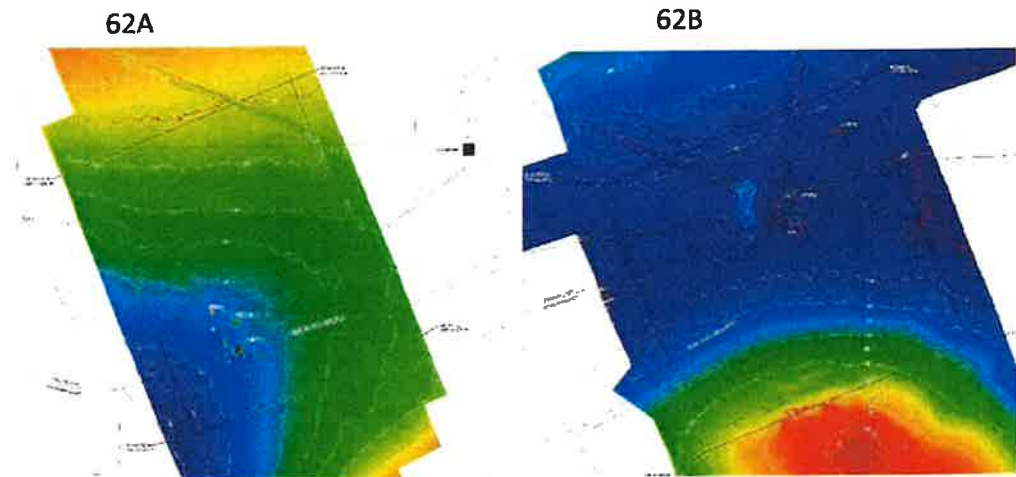
3. Waterbody:

The reef zone is in the Northern Gulf of Mexico, in the Exclusive Economic Zone (EEZ).

C) Project Site Description

1. Existing Structures:

There are two reefered platform legs and an inactive oil pipeline within the permitted reef zone.



2. Existing Conditions:

The environmental conditions of the proposed reef zone naturally fluctuate throughout the year. Typically, areas suitable to offshore artificial reefs have average salinity ranges from 20-35 parts per thousand, dissolved oxygen levels between 3.5-10.5 mg/L, mud and sand bottoms, and depths suitable to provide adequate clearance of structures from mean low low water.

3. Seagrasses & Other Marine Vegetation:

To date, there is no evidence, nor has there been any observance of submerged aquatic vegetation near the proposed site.

4. Mangroves:

There are no mangroves present in or near habitats immediately surrounding the proposed site.

5. Corals:

There are no corals present in or near the waters surrounding the proposed site.

D) Project Description and Construction Methods

1. Project:

The proposed artificial reef zone and the structures to be deployed there will serve to introduce new habitat in the area and therefore increase species diversity and richness. The presence of hard structures will provide large surface areas for invertebrate attachment and the complex structure and relief will provide habitat in which variety of species will find shelter. This will enhance fishing opportunities in the area and provide a quality fishing site in offshore waters for Mississippi anglers.

2. In Water Structures:

Upon issuance of a permit for this proposed artificial reef zone, reef materials will be deployed opportunistically throughout the approved zone during the permitted period. Material to be used for the construction of the structures within the artificial reef zone will consist of oil platforms, jackets, and structures. Materials will be transported and deployed according to protocol developed by contractors hired to do so in such a manner as to minimize any disturbance to the sea floor while ensuring that the materials are oriented correctly.

3. Overwater Structures:

There are no overwater structures proposed for this project.

4. Fishing Pier:

There are no fishing piers proposed for this project.

5. Methods:

Upon issuance of a permit for this proposed artificial reef zone, reef materials will be deployed opportunistically throughout the approved zone during the permitted period. Material to be used for the construction of the structures within the artificial reef zone will consist of oil platforms, jackets, and structures. Materials will be transported and deployed according to protocol developed by contractors hired to do so in such a manner as to minimize any disturbance to the sea floor while ensuring that the materials are oriented

correctly.

This project is located approximately 85 miles south of Biloxi. The proposed site is approximately 70 miles away from the nearest Gulf Sturgeon Critical Habitat.

6. Pile Installation:

N/A

7. Dredging:

N/A

8. Artificial Reefs:

The existing artificial reef zone consists of two reefed structures with room for four more. The mud and sand bottom at the proposed reef site is in accordance with the guidelines for our artificial reef site selection criteria. See Mississippi's Artificial Reef Development Plan. Avoidance of particular types of substrates, is also critical for artificial reef restoration in order to prevent sedimentation and subsidence of the reef.

9. Construction Schedule:

Construction on the site depends on acquisition of necessary permits to begin work. Deployments of materials may occur during any portion of the year, depending on when those materials become available.

10. Conservation/Protective Measures:

No mitigation is proposed for this project as the objective of the project is to create an artificial reef zone by ongoing deployments of approved reef material in a manner that does not adversely affect the surrounding environments or the organisms inhabiting those environments. Overall this project will enhance existing habitat which will aid in creating valuable offshore habitat for marine fish and invertebrates.

The following species are listed as threatened or endangered in the Northern Gulf of Mexico. The proposed reef zone is within range of several listed species, including
Fin Whale (*Balaenoptera physalus*)
Humpback Whale (*Megaptera novaeangliae*)
Sei Whale (*Balaenoptera borealis*)
Sperm Whale (*Physeter microcephalus*)

Green Sea Turtle (*Chelonia mydas*)
Hawksbill Sea Turtle (*Eretmochelys imbricata*)
Kemp's Ridley Sea Turtle (*Lepidochelys kempii*)
Leatherback Sea Turtle (*Dermochelys coriacea*)
Loggerhead Sea Turtle (*Caretta caretta*)
Gulf Sturgeon – (*Acipenser oxyrinchus desotoi*)

Of these species, the four mammal species are not known to migrate within the proposed action area and no effect or impact is anticipated. The ranges of five of the listed sea turtle species could potentially extend into Mississippi state waters, but with the exception of the Loggerhead Sea Turtle, there is no Critical Habitat defined within the Gulf of Mexico. Critical Habitat for the Loggerhead Sea Turtle has only been designated in the northwestern and southeastern Gulf of Mexico. Loggerhead Nearshore Reproductive Habitat (NRH) has been designated on the south side of the barrier Islands. The nearest NRH is 65 miles from the proposed artificial reef zone. Special attention will be given to prevent any negative impacts to those species occurring in the project's vicinity. Trained personnel will always be present during the execution of this project and workers aboard all vessels will be briefed on all special conditions provided in the permit regarding sea turtles and any other listed species. Implementation of "Sea Turtle and Smalltooth Sawfish Construction Conditions," acquired through NMFS official web page, will ensure that no sea turtles will be negatively impacted or affected during this project.

Workers and MDMR personnel will be briefed on proper procedures to observe, recognize, and notify appropriate authorities should they encounter endangered species at the site during the scope of their deployment activities. Several species of sea turtles are known to inhabit the Gulf of Mexico and Mississippi Sound. These species include the Green Turtle, Hawksbill Turtle, Kemp's Ridley Turtle, Leatherback Turtle, and Loggerhead Turtle; all of which are listed as endangered. To avoid negative impacts to sea turtles, personnel will be:

- 1) Instructed of the potential presence of these species and the need to avoid collision with them at the project site.
- 2) Advised that there are civil and criminal penalties for harming, harassing, or killing of these species covered under the Endangered Species Act of 1973.
- 3) Notified that all vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area.
- 4) Instructed that if a sea turtle is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions

shall be implemented to ensure its protection. These precautions shall include:

a) Cessation of operation of any moving equipment within 50 feet of a sea turtle.

b) Operation of any mechanical construction equipment shall cease immediately if a sea turtle is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.

5) Alerted that any collision with and/or injury to a sea turtle shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.

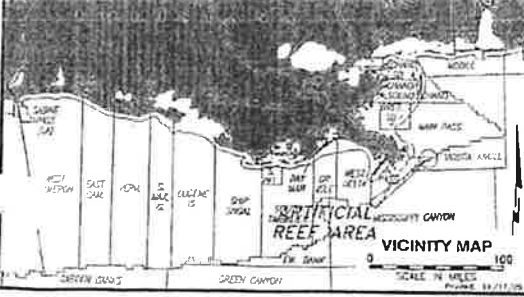
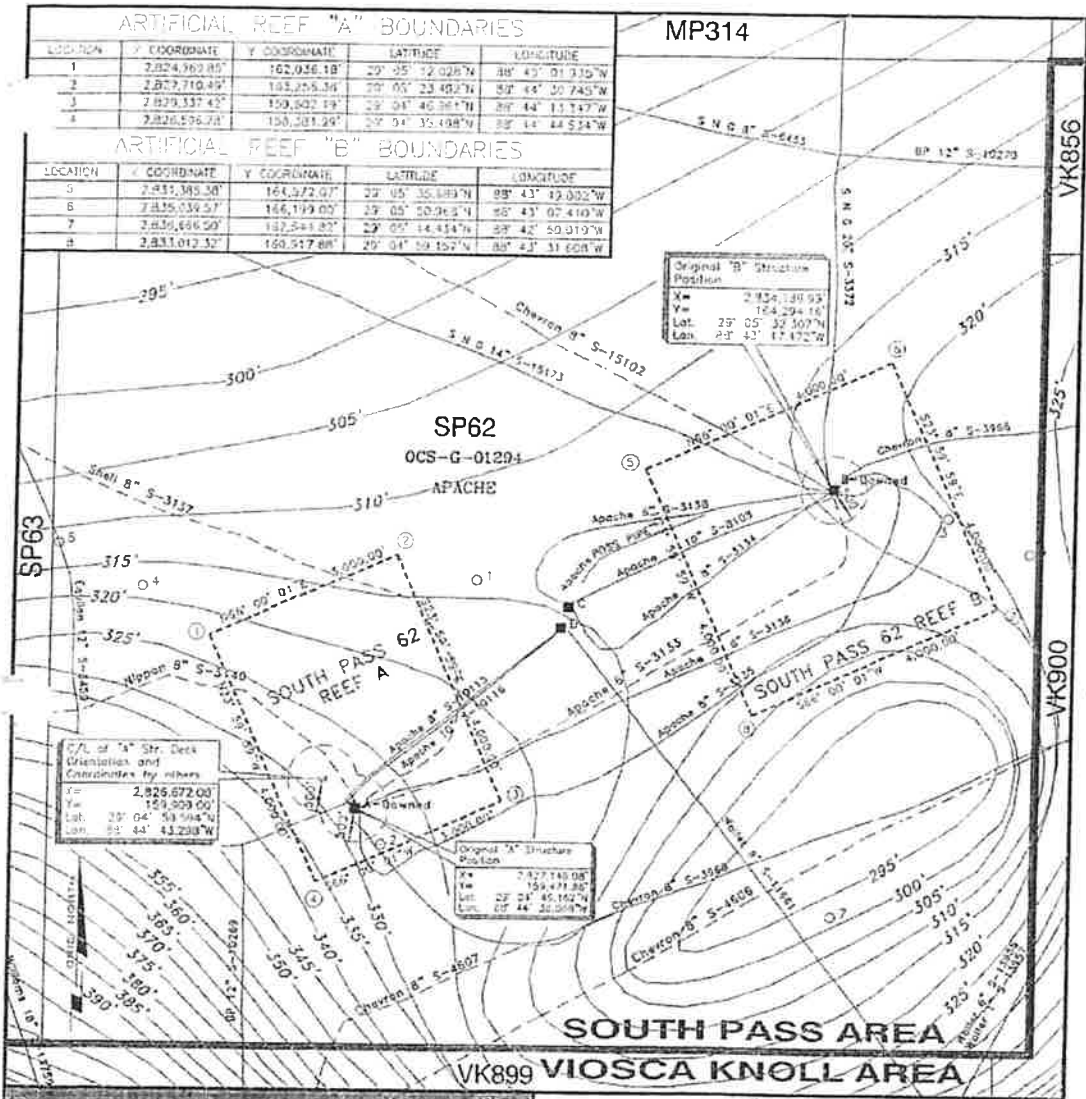
Implementation of these specific criteria and plan of action at the project site will prevent any negative effects to sea turtles.

The nearest Critical Habitat is that of Gulf Sturgeon and is approximately 70 miles north of the proposed artificial reef zone.

It is not likely there will be any adverse effects to any of the listed species within the boundary of the project site. The proposed artificial reef zone is not within any Essential Fish Habitat or Critical Habitat.

ARTIFICIAL REEF "A" BOUNDARIES				
LOCATION	X COORDINATE	Y COORDINATE	LATITUDE	LONGITUDE
1	2,824,962.85'	162,036.18'	29° 05' 32.028"N	88° 43' 01.316"W
2	2,827,710.49'	161,255.36'	29° 05' 23.482"N	88° 44' 20.745"W
3	2,829,337.43'	159,802.19'	29° 04' 46.361"N	88° 44' 13.147"W
4	2,826,596.78'	158,301.29'	29° 04' 35.408"N	88° 44' 44.524"W

ARTIFICIAL REEF "B" BOUNDARIES				
LOCATION	X COORDINATE	Y COORDINATE	LATITUDE	LONGITUDE
5	2,831,385.50'	164,372.07'	29° 05' 35.889"N	88° 43' 13.032"W
6	2,835,039.57'	166,199.00'	29° 05' 20.263"N	88° 43' 02.410"W
7	2,836,666.50'	162,241.07'	29° 05' 14.414"N	88° 42' 50.019"W
8	2,831,013.32'	160,917.88'	29° 04' 59.157"N	88° 43' 31.608"W



Apache CORPORATION

SOUTH PASS 62 - "A" & "B"
PROPOSED REEF POSITION
 BLOCK 62
 SOUTH PASS AREA
 GULF OF MEXICO

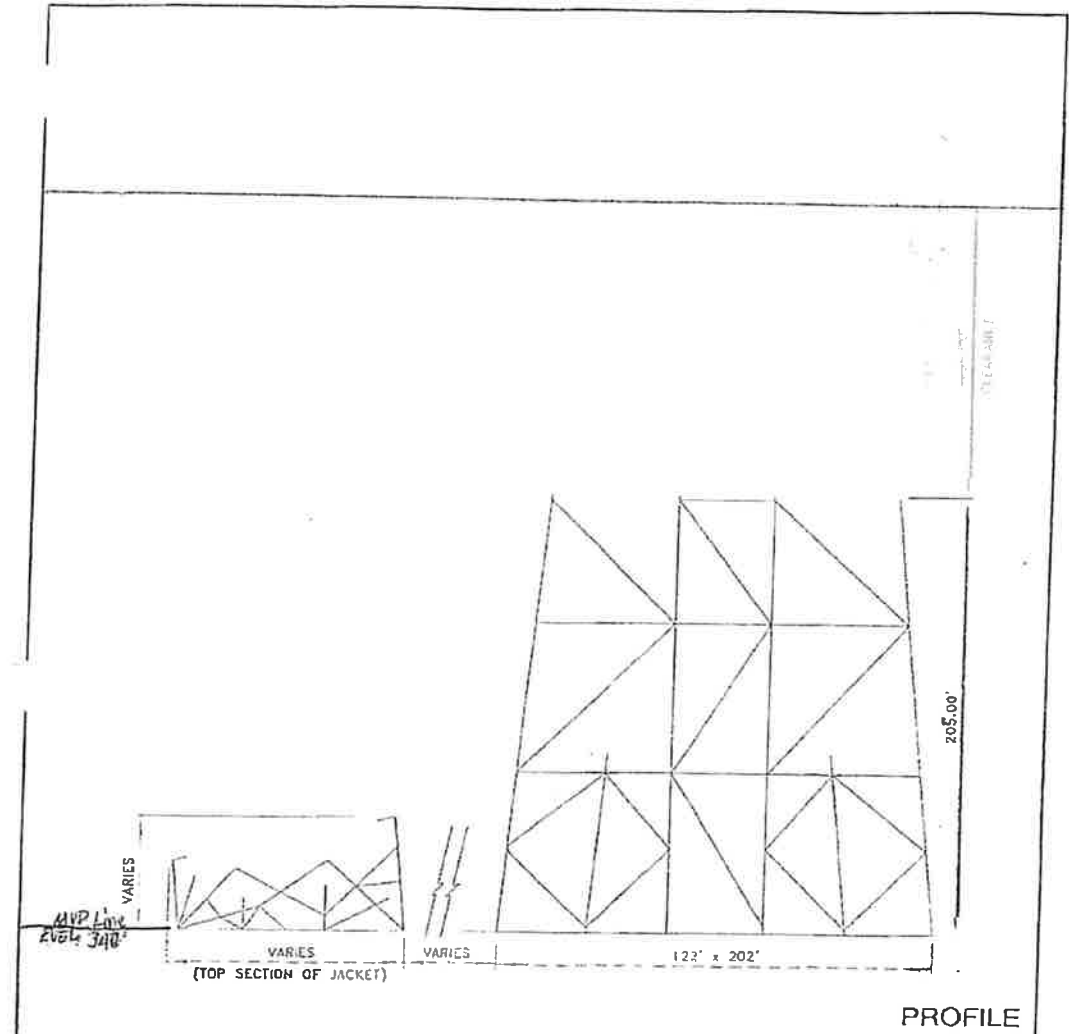
FUGRO CHANCE INC.

REGULATORY DIVISION
 PROJECTION: LOUISIANA SOUTH
 GRID LIMITS: US SURVEY FEET

SCALE: 0 TO 2,000'
 IN FEET

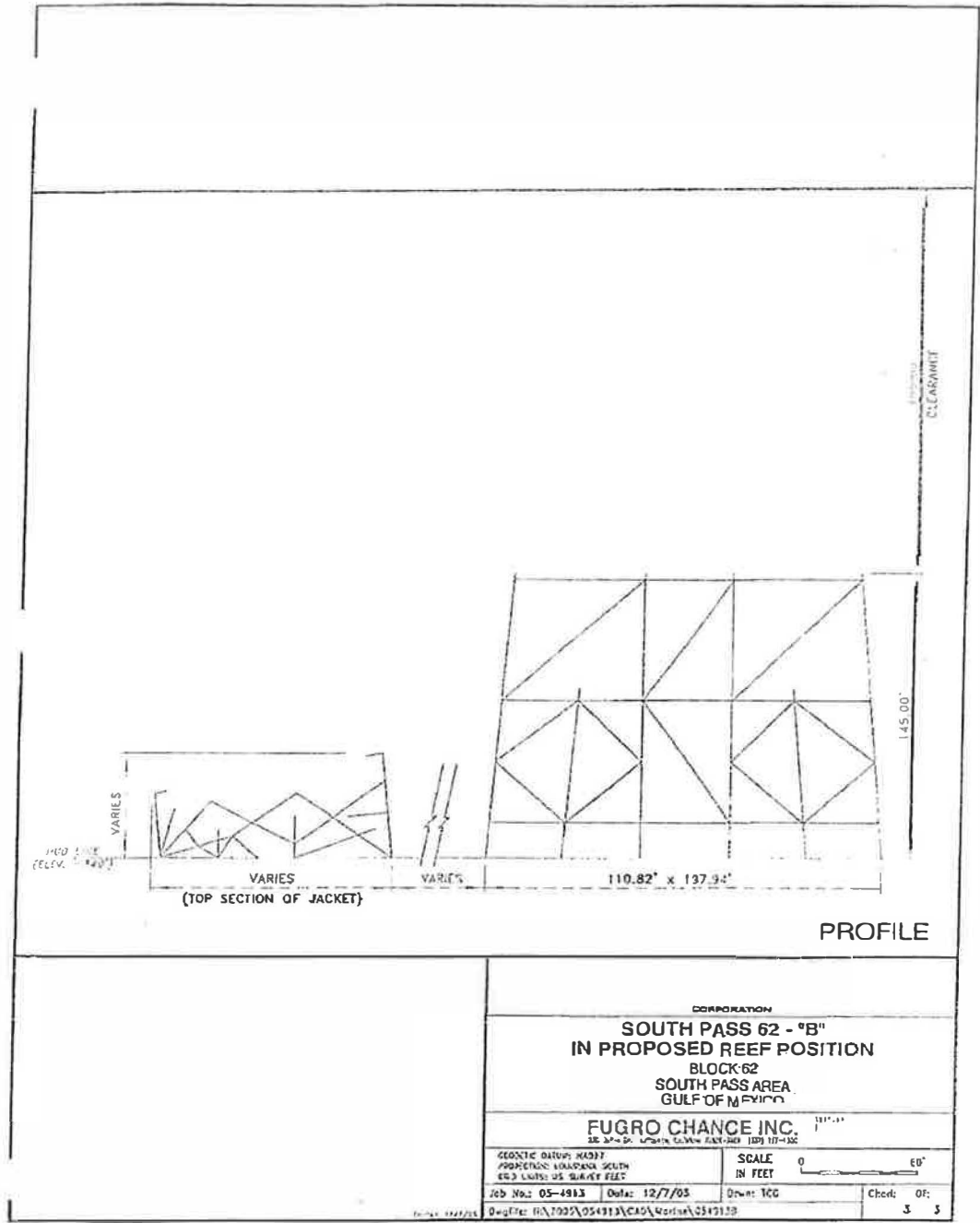
Job No.: 05-4676 | Date: 11/17/05 | Drawn: TGG | Chart: 0f: 1 5

Project: H:\2005\054676\CAD\MapInfo\054676A



PROFILE

<small>CORPORATION</small>			
SOUTH PASS 62 - "A"			
IN PROPOSED REEF POSITION			
BLOCK 62			
SOUTH PASS AREA			
GULF OF MEXICO			
FUGRO CHANCE INC.			
<small>Geographic Information Systems Department</small>			
<small>GEODETIC DATUM: NAD83</small>	<small>PROJECTION: LOUISIANA SOUTH</small>	<small>SCALE</small>	<small>IN FEET</small>
<small>JOB NO.: 05-1013</small>	<small>DATE: 12/1/05</small>		
<small>DRAWN BY: ICG</small>	<small>CHECKED BY: ICG</small>	<small>DATE: 12/1/05</small>	<small>SCALE: 1" = 10'</small>
<small>DWG NO.: M:\2005\054913\CAD\Mapline\054913.dwg</small>	<small>PLT NO.: 054913.dwg</small>	<small>DATE: 12/1/05</small>	<small>SCALE: 1" = 10'</small>



PROFILE

CORPORATION SOUTH PASS 62 - "B" IN PROPOSED REEF POSITION BLOCK 62 SOUTH PASS AREA GULF OF MEXICO	
FUGRO CHANCE INC. <small>220 2nd St. Suite 2000 Fort Worth TX 76102</small>	
GEOTECH OFFICE: HOUSTON PROJECT: HOUSTON SOUTH EST. LIMITS: SEE SURVEY FILE	SCALE IN FEET
Job No.: 05-4913 Date: 12/7/05 Drawn: TCC	Check: OF:
Drawn: TCC Date: 12/7/05 Job No.: 05-4913 Date: 12/7/05 Drawn: TCC Check: OF:	