

MINUTE ITEM

22

08/20/87
W 40500
Gonzalez
Cohen

REMOVAL OF OIL DRILLING AND PRODUCTION
PLATFORMS "HELEN" AND "HERMAN"
FROM STATE OIL AND GAS LEASES, PRCC 2206, 2275,
SANTA BARBARA COUNTY, WITH DISPOSAL OF THE
STRUCTURES IN STATE WATERS AS ARTIFICIAL REEFS

Calendar Item 22, attached, was pulled from the agenda prior to
the meeting.

Attachment: Calendar Item 22.

FILE NUMBER	2702
FILE NUMBER	

CALENDAR ITEM

A 35, 51

22

S 18, 29

08/20/87
W 40500
PRC 2206
PRC 2725
Gonzalez
Cohen

REMOVAL OF OIL DRILLING AND PRODUCTION
PLATFORMS "HELEN" AND "HERMAN"
FROM STATE OIL AND GAS LEASES, PRCS 2206, 2275,
SANTA BARBARA COUNTY, WITH DISPOSAL OF THE
STRUCTURES IN STATE WATERS AS ARTIFICIAL REEFS

LESSEE: Texaco, USA
Attr.: Mr. Bill Peters
10 Universal City Plaza, Room 654
Universal City, California 91608-1097

LEASES, STRUCTURES AND LOCATION:

State oil and gas lease PRC 2206 contains 3,840 acres of tide and submerged lands located in the Santa Barbara Channel, West of Gaviota, Santa Barbara County. The lease was awarded by competitive bid on July 25, 1958 to the Texas Company, now Texaco, for a bonus bid of \$23,711,538.

Platform Helen was installed on PRC 2206 in 1960 as a drilling and production platform from which nine wells were subsequently drilled and completed. The platform produced until 1973 when it was shut in and abandoned. The nine wells were abandoned between August 1984 and March 1985.

State oil and gas lease PRC 2725 contains 4,250 acres of tide and submerged lands located in the Santa Barbara Channel West of Gaviota, Santa Barbara County. The lease awarded by competitive bid to Texaco, Inc. on May 4, 1961 for a bonus bid of \$9,550,000.

Platform Herman was installed on Lease PRC 2775 in 1964 as a satellite production platform serving as a separation and testing facility for the 20 subsea wells which were drilled and completed on the lease. The 20 subsea wells were abandoned in 1982 and 1983. Platform Helen stands in 94 feet of water and Platform Herman is in 85 feet of water. The two platforms are each approximately 1.5 miles apart.

PROJECT SUMMARY:

Texaco, USA, "Texaco", plans to remove and dispose of its platforms Helen and Herman located on State lease PRCs 2206 and 2725, respectively, near Gaviota, California in the Santa Barbara Channel. A contractor, hired by Texaco, will, subsequent to appropriate cleanup measures, removed the platform sections as follows:

1. Topside facilities.
2. Platform decks and associated material.
3. Jacket bracing.
4. Jacket structures and piling (to be cut at the mudline.).

Additionally, the pipelines from both platforms will be abandoned in place by plugging and severing them at the platform mudline as well as removing them through the surf zone.

The platform structural sections will be loaded onto a barge and transported to a disposal site selected by the Department of Fish and Game for use as an artificial reef for fishery enhancement. The site selected by Department of Fish and Game is located in 120 feet of water in Santa Monica Bay in the jurisdiction of Redondo Beach. It is adjacent to an existing artificial reef. The sunken liberty ship "Palawan" and close to the mooring point of a public fishing barge. Texaco, the Department of Fish and Game, and Commission staff have coordinated with the City of Redondo Beach on the placement of the platform sections. The City has indicated that it approves of the project disposal site.

AB 884:

N/A.

OTHER PERTINENT INFORMATION:

1. Pursuant to the Commission's delegation of authority and the State CEQA Guidelines (14 Cal. Adm. Code 15025), the staff has prepared a proposed Negative Declaration identified as EIR ND 417 State Clearinghouse 87040116; such proposed negative declaration was prepared and circulated for public review pursuant to the provisions of the CEQA. A copy of this environmental document is attached as Exhibit " ".

Based upon the initial study, the proposed Negative Declaration, and the comments received in response thereto, there is no substantial evidence that the project will have a significant effect on the environment (14 Cal. Adm. Code 15074(b)).

2. This activity involves lands identified as possessing significant environmental values pursuant to P.R.C. 6370 et. seq. Based upon the staff's consultation with the Department of Fish and Game and through the CEQA review process, it is the staff's opinion that the project, as proposed, is consistent with the use classification.

CALENDAR ITEM NO. 22 (CONT'D)

3. As part of an ongoing artificial reef program, the Director of the Department of Fish and Game has selected the Santa Monica Bay Disposal site as suitable for placement of these platform structures as artificial reef material for fishery enhancement.

EXHIBITS: A. Lease Location Map.
 B. Disposal Site Map.
 C. Negative Declaration

IT IS RECOMMENDED THAT THE COMMISSION:

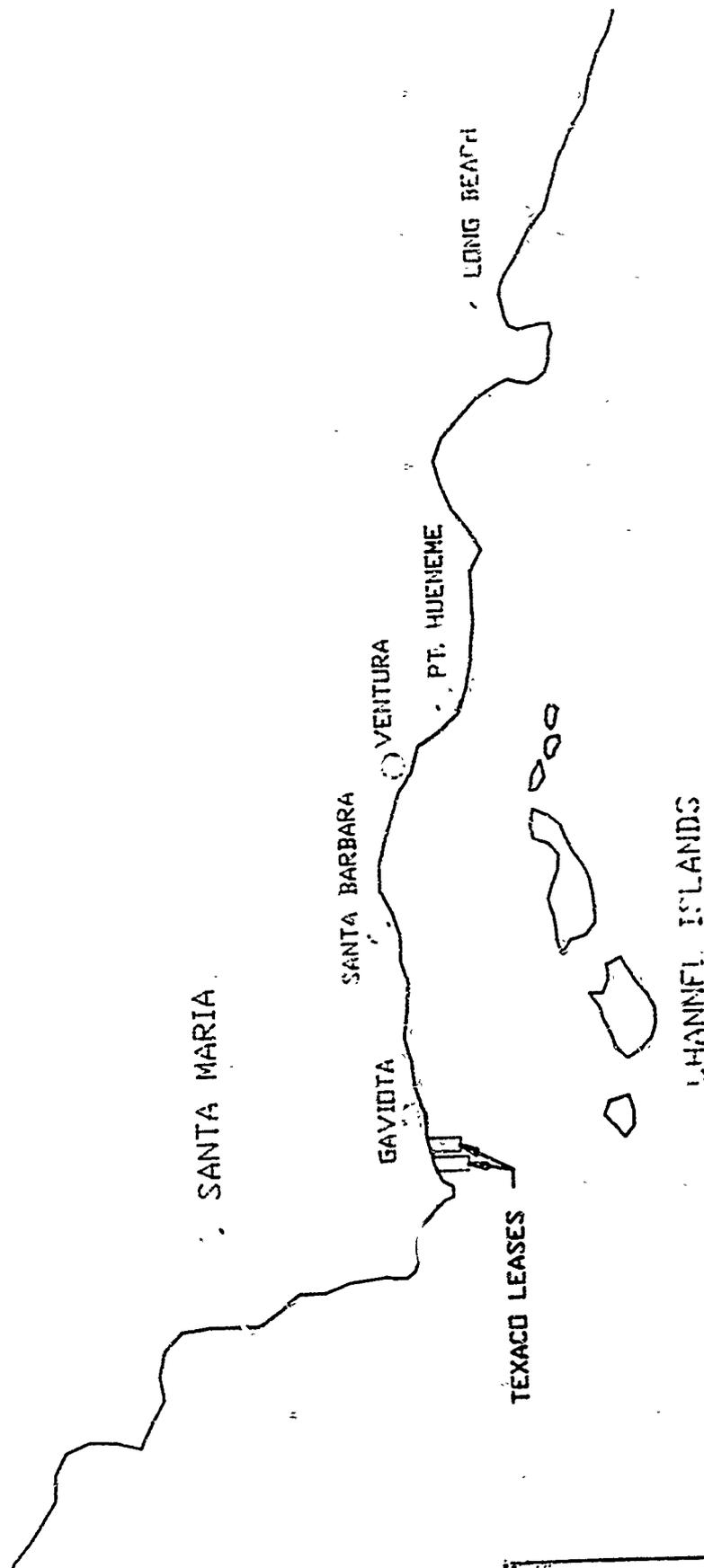
1. CERTIFY THAT A NEGATIVE DECLARATION EIR ND 417 STATE CLEARINGHOUSE #87040116, WAS PREPARED FOR THIS PROJECT PURSUANT TO THE PROVISIONS OF THE CEQA AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
2. DETERMINE THAT THE PROJECT, AS PROPOSED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
3. FIND THAT THIS ACTIVITY IS CONSISTENT WITH THE USE CLASSIFICATION DESIGNATED FOR THE LAND PURSUANT TO P.R.C. 6370, ET. SEQ.
4. APPROVE THE PROCEDURES, AS REVISED, TO ALLOW THE REMOVAL OF IDLE PRODUCTION AND DRILLING PLATFORMS "HELEN" AND "HERMAN" FROM STATE OIL AND GAS LEASES PRCs 2206 AND 2725, RESPECTIVELY, TOGETHER WITH ABANDONMENT OF RELATED GAS AND OIL PIPELINES, AND THE REMOVAL OF THOSE PIPELINE PORTIONS THROUGH THE SURF ZONE, WITH DISPOSAL OF THE PLATFORM STRUCTURES AS ARTIFICIAL REEFS IN STATE WATERS IN SANTA MONICA BAY, LOS ANGELES COUNTY, AS SELECTED BY THE DEPARTMENT OF FISH AND GAME.

EXHIBIT "A"

PRC 2206, PRC 2725

GEOGRAPHIC LOCATION MAP
OFFSHORE SOUTHERN CALIFORNIA

W40500



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108
2707

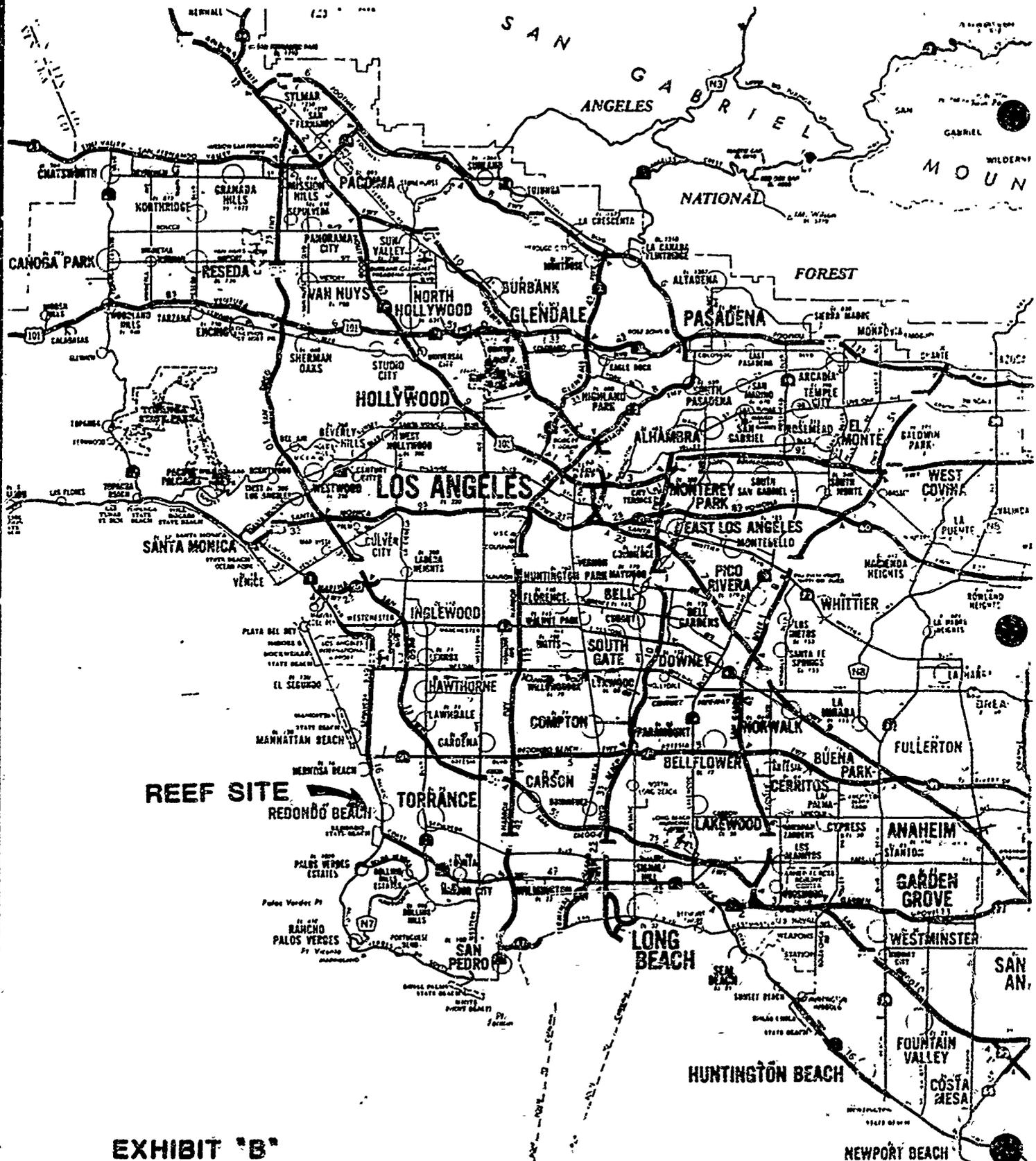


EXHIBIT "B"

**PLATFORM DISPOSAL - REEF SITE
SANTA MONICA BAY**

W4C500

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STATE LANDS COMMISSION
1807 13TH STREET
SACRAMENTO, CALIFORNIA 95814

EXHIBIT "C"

PROPOSED NEGATIVE DECLARATION

W 40500



EIR NO 417

File Ref.: W 30051

SCH#: 87040116

Project Title: Removal and Disposal of Oil Platforms "Herman" and "Helen"

Project Proponent: Texaco U.S.A., Inc.

Project Location: State leases PRC 2206.1 and PRC 2725.1 in the Santa Barbara Channel near Gaviota, Santa Barbara County

Project Description: Proposed removal and disposal of two idle oil drilling and/or production platforms and related gas and oil pipelines.

Contact Person: Dan Cohen, Environmental Coor.

Telephone: (916) 324-8497

This document is prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et seq., Public Resources Code), the State CEQA Guidelines (Section 15000 et seq., Title 14, California Administrative Code), and the State Lands Commission regulations (Section 2901 et seq., Title 2, California Administrative Code).

Based upon the attached Initial Study, it has been found that:

the project will not have a significant effect on the environment,

mitigation measures included in the project will avoid potentially significant effects.

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INITIAL STUDY

REMOVAL OF TEXACO'S PLATFORMS "HELEN" AND "HERMAN"
Santa Barbara Channel, Santa Barbara County

Revised, July 1987

Prepared By:

State Lands Commission
1807 - 13th Street
Sacramento, CA 95814
Contact: Dan Cohen, Environmental Specialist
(916) 324-8497

1483S

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I. PROJECT DESCRIPTION

A. Overview

Texaco USA, "Texaco", plans to remove and dispose of its Platforms Helen and Herman located on State Leases PRC 2206.1 and 2725.1 near Gaviota, California in the Santa Barbara Channel. Platform Helen stands in 94 feet of water and Platform Herman is in 85 feet of water. The two platforms are located approximately 1.5 miles offshore and are about five miles apart. (Location maps are shown on pages 2 and 3.)

Platform Helen was installed in 1960 as a drilling and production platform from which 9 wells were subsequently drilled and completed. The platform was active until 1973 when it was shut in and abandoned. The nine wells were abandoned between August 1984 and March 1985. (See pages 12-14)

Platform Herman was installed in 1964 as a satellite production platform serving as a separation and testing facility for the 20 subsea wells which were drilled and completed on the lease. The 20 subsea wells were abandoned in 1982 and 1983. (See pages 15-17)

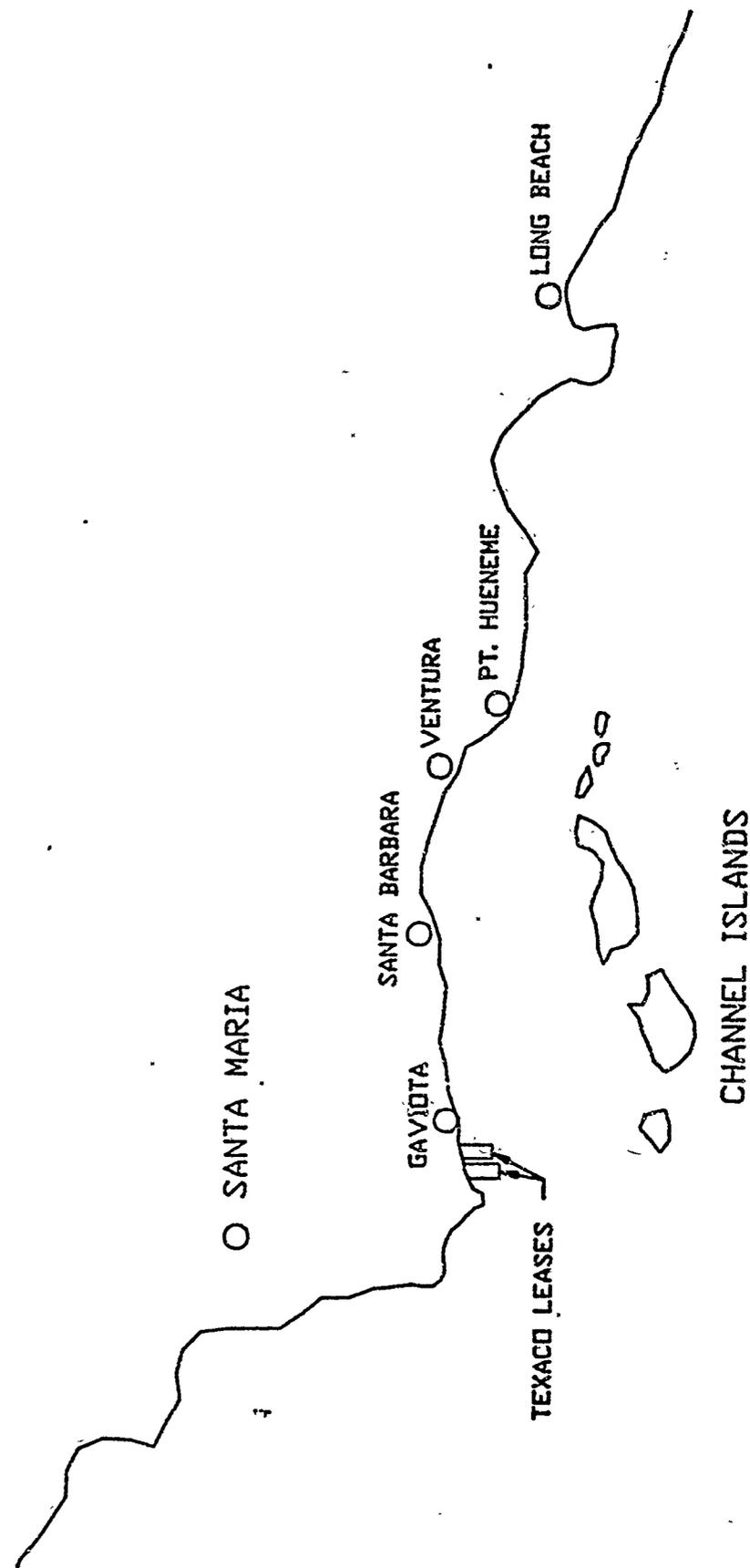
There are also idle oil and gas pipelines from the platforms to shore. Some underwater portions of the pipelines are covered with marine growth, while other areas are exposed with no marine growth, or are covered with sand.

B. Preliminary Platform Abandonment Procedures

Texaco will have contacted and investigated several marine contractors capable of performing work of this nature prior to proceeding with any operations associated with platform removal. Advance arrangements will be made with the Hollister Ranch Company to transport equipment to the beach sites where the pipelines will be removed in conjunction with an existing right-of-way on the pipelines.

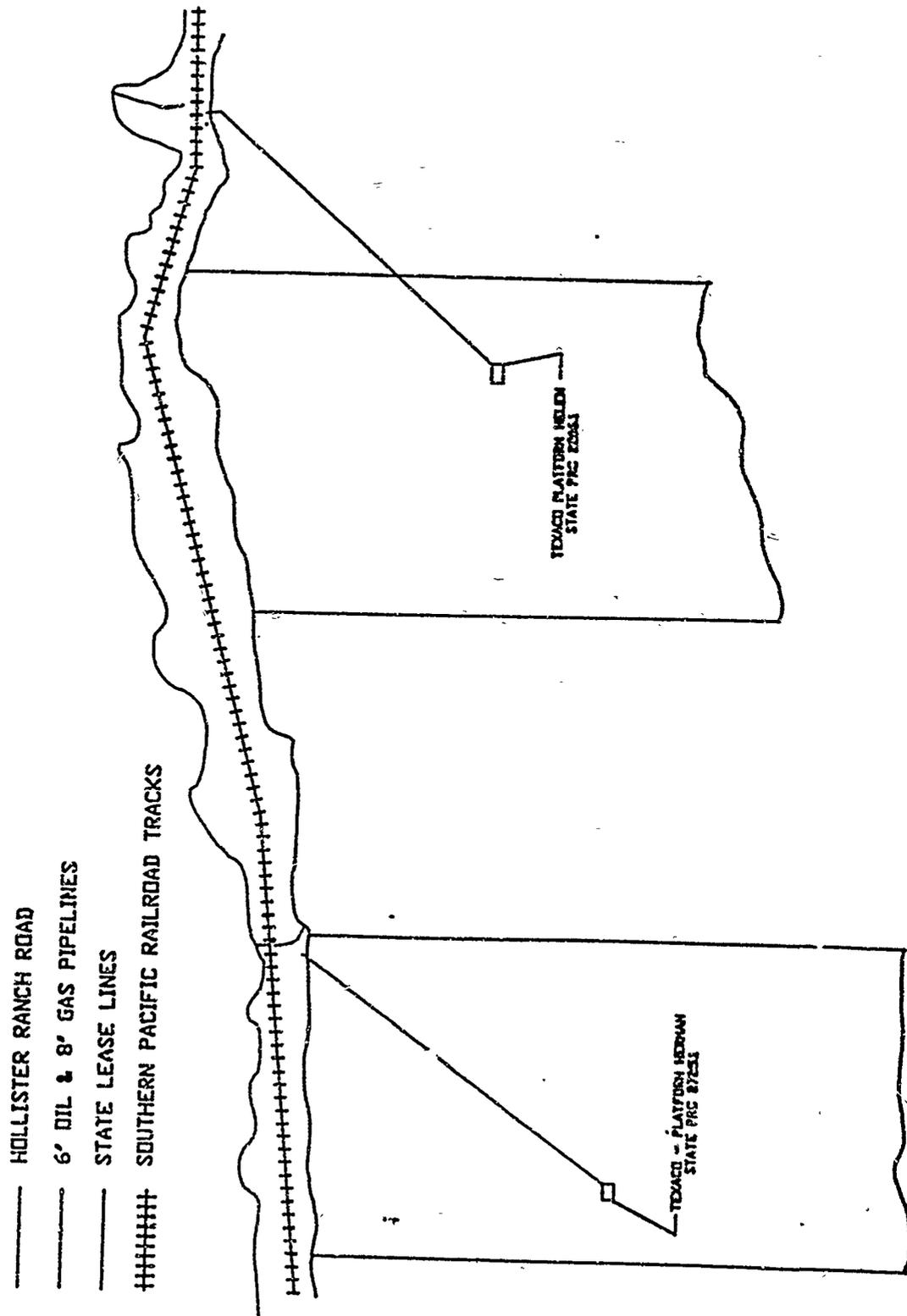
The final list of contractors will be supplied with a bid document which will have also been reviewed by the State Lands Commission. Following bid evaluation, Texaco will review the successful bidders plan of abandonment, and conduct a final job walk at both platforms and the beach crossings where the pipelines are to be removed.

GEOGRAPHIC LOCATION MAP
OFFSHORE SOUTHERN CALIFORNIA



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LOCATION OF TEXACO PLATFORMS IN STATE WATERS OFFSHORE CALIFORNIA



Once all agencies have been notified and permits have been obtained, the abandonment operations will begin.

C. The Alternatives:

Two alternatives are being considered for platform abandonment. Under Alternative #1, the contractor would transport the platform materials to an offshore site in Santa Monica Bay, and place them for use as artificial reefs. The site is adjacent to the City of Redondo Beach, California and both the Department of Fish and Game and the City of Redondo Beach have given their approval to the proposal. Alternative #2 involves the disposal of both platforms onshore at either an approved disposal site or with an authorized scrap dealer.

Alternative #1 is the preferred option. Alternative #2 would be carried out only should permitting and/or technical problems make the preferred alternative not feasible.

Both of the options require that the contractor, subsequent to appropriate cleanup measures, remove the following:

1. Topside facilities
2. Platform decks and associated material
3. Jacket bracing
4. Jacket structures and piling (to be cut at or below the mudline, whichever is both technically and environmentally preferable in consultation with the State Lands Commission)

Additionally, the pipelines from both platforms will be abandoned in place by plugging and severing them at the platform mudline as well as removing them through the surf zone.

Prior to the commencement of work, Texaco will notify those agencies which have required permits and notification. Once the agencies are notified and permits have been obtained, platform removal operations will begin.

Alternative #1: Artificial Reef

The California Department of Fish and Game (DFG) supports placement of the platforms in waters so that they can be used as artificial reefs. The DFG has conducted a number

of surveys in California offshore areas to identify potential artificial reef sites. It has proposed placement of the platforms at a site offshore Redondo Beach, California.

The actual artificial reef site will be subject to a specific dive survey by DFG just before placement in order to establish the precise and exact location. However, it will be within 1/4 nautical miles of the following location where it will augment an already existing artificial reef:

Location: 33 degrees, 50 minutes, 15 seconds north, and 118 degrees, 24 minutes, 50 seconds west in approximately 120 feet of water.

The DFG is requiring that the platform removal and placement operation include the following features: (1) all oil and contaminants be removed from the platforms; (2) platform topsides be removed from both platforms and deposited onshore; and (3) the platforms be placed on their sides at the site and in accordance with their determinations made as a result of the dive survey.

In addition to obtaining all required permits from the DFG, Texaco will also obtain permits from the Army Corps of Engineers and the U.S. Coast Guard in order to place the platforms at the artificial reef site. The entire project (removal and placement) will be brought before the California Coastal Commission, and before Santa Barbara County and the City of Redondo Beach for those aspects of the project where they have jurisdiction.

Alternative #2: Onshore Disposal

Alternative #2, onshore disposal, will be carried out should final permitting and/or technical problems make the Artificial Reef option not feasible.

If the platforms are removed and disposed of at an onshore dump site, it is expected that the site would be in either the Los Angeles/Long Beach, Fort Hueneme, or Santa Maria areas where there are existing approved dump sites for such materials. The contractor hired for the project would make arrangements for ultimate disposal at an approved onshore site. All regulatory agencies will be informed of the actual site prior to undertaking any of the operations associated with Alternative #2.

D. Platform Preparation and Removal:

Under both Alternatives #1 and #2, platform preparation and removal will involve the following steps:

1. Clean and lift onto a barge all vessels, tanks and piping. Prior to removal, all oil and other substances will be drained into appropriate containers and disposed of in accordance with existing regulations at an approved onshore site.
2. Remove all loose material, refuse and equipment on the platforms and take to an approved onshore disposal site.
3. Clean all loose debris from topsides structures and dispose of this material and the tanks and equipment at an approved disposal site onshore.
4. Perform inspection of topside structures for lift point determinations.
5. Perform underwater inspections of jacket structures to determine cut and lift points.
6. Perform bottom surveys prior to commencement of removal operations to determine seafloor status. Determination will be made whether to cut the pilings from the jacket at or below mudline. The survey will determine which option is environmentally preferable. The survey shall cover an area having a diameter of 350 feet with the platform at the center point.
7. With the preparatory work completed, the topside structures will be rigged, dismantled and placed on the work barge. Cuttings will be done by oxygen/acetylene torches or underwater cutting equipment.
8. Plug and seal the pipelines emanating from each platform.
9. Rig and dismantle the jacket structures. Place jacket structures on work barges. Proceed with either Alternative #1 or #2, discussed below.

10. Cut off any remaining piling from the jackets at or below the mudline, based on the determination made in #6 (above).
11. Remove the pipeline sections at the beach crossings through the surf zone to the points indicated on the drawings in the Appendix (pages 18-21). Plug pipelines at cut points. (See discussion in Section "F" below for pipeline removal procedures.)

E. Platform Placement (Alternative #1), or Platform Disposal (Alternative #2) and Final Site Clearance Work

Under Alternative #1, the jacket structures would be barged to the artificial reef site identified above off of Redondo Beach, California and placed in the water. The DFG personnel will be present to monitor and direct all aspects relative to the placement of the platforms at the reef site.

Under Alternative #2, the jacket structures would be barged to port and, from there, taken to an approved dump site authorized to receive such material. Agencies will be notified of the dump site prior to any operations associated with this alternative.

A final subsea bottom survey will be performed after all disposal items have been removed from the original platform area. The final subsea survey will be compared with the initial survey. This survey shall also cover a 350 foot diameter area around the platform, with the original platform site as the center point. A color video camera will be used to provide clear documentation of the bottom features. The surveys will be reviewed, and any additional obstructive objects will be removed from the seafloor.

Texaco will provide agencies with the site clearance documentation. This documentation will include: (1) color videotape pictures of the platform sites; (2) appropriate visual reporting of the pipeline cut points; and (3) still photographs of the surface beach sites.

An estimated project timetable showing the days on site for each stage is shown in the Appendix (page 24).

F. Planned Removal Procedure for Pipelines Through the Surf Zone at Alegria and St. Augustine Beaches

Alegria Beach

1. Cut and plug pipelines at point (2) located on drawing [Pipelines - Alegria Beach, drawn by Land and Sea Surveys Inc.] (LSSI) (see page 18).
2. Remove 8" oil and 6" gas pipelines from cut point through surf zone to the valve box located behind the railroad trestle.
3. Replace any ocean bottom or beach material that may have been displaced by the removal operations.

St. Augustine Beach

1. Cut and plug pipelines at point seven (7) located on the drawing on page 19 [Pipelines - St. Augustine Beach by LSSI].
2. Remove 8" oil and 6" gas pipelines from cut point through surf zone to a point located 50' behind the bluff overlooking the beach.
3. Replace any ocean bottom or beach material that may have been displaced by the removal operations.

G. Stages of the Proposed Project Corresponding to Equipment List (Part H, following)

- Stage 1 Underwater inspection prior to commencement of platform dismantling.
- Stage 2 Removal and cleaning of topsides structures and associated loose items. Discarded material to be transported to Port Hueneme and discarded at local disposal facility nearby.
- Stage 3 Rig and dismantle topsides and jacket structures. Cut and plug pipelines offshore and onshore. Note: Pipelines to each platform will be cut at the platform's mudline. Transport topsides and jacket structures to dump site, also shown on accompanying map (page 22).

Stage 4 Cut and plug pipelines through surf zone at each beach site. Remove pipeline and associated material to disposal site in Santa Maria.

Stage 5 Underwater inspection after dismantling of the platform structures. Color video, magnetometer and possible side scan sonar survey of platform sites as described in original project description.

H. Equipment List for Each Stage

Stage 1 30' diving support vessel - 150 hp diesel engine
Remotely operated underwater inspection vehicle -
electrically powered
2 divers with Helium Oxygen diving equipment
2 support personnel for divers and ROV survey
Time on sites - approximately two days per platform

Stage 2 180' work boat - 2250 hp (turbocharged diesel engines)
+ 2 diesel generators - 50 kilowatts
+ 90 cubic feet/minute air compressor
- 40 hp electric
8 sets of Oxygen/Acetylene cutting torches
2 - 250 ampere diesel powered arc welding machines
15-ton hydraulic crane with 200 hp diesel powered power pack
10-15 workmen
2-3 supply boat round trips to Port Hueneme per platform
Time on sites - approximately 4-7 days per platform

Stage 3 180' work boat - 2250 hp (turbocharged diesel engines)
+ 2 diesel generators - 50 kilowatts
+ 90 cubic feet/minute air compressor - 40 hp electric
+ 400 hp diesel powered cementing unit
+ 500 cubic foot bulk cement tank
+ 400 of 3" cementing lines
250' - 300' derreck barge
+ 6 point mooring system with 10,000# anchors

+ 3 twin drum 80,000# winches, 200 hp diesel powered
+ 2 200 kilowatt diesel powered electric generators
+ 6 sets of OXYARC underwater cutting equipment
+ 8 sets of Oxygen/Acetylene cutting torches
+ 350-400 ton diesel powered crane - 1750 hp
+ 4 sets of 0'-300' Helium/Oxygen diving equipment
+ 8 sets of 0'-200' air diving equipment
250' x 90' x 30' cargo barge
115' barge tug - 4800 hp diesel powered
20-25 workmen with supervisory crew
12 divers with support crew of 10
2-3 supply boat round trips to Port Huoneme per platform
Time on site - approximately 5-8 days per platform

Stage 4 Diesel powered backhoe - 250 hp
Diesel powered tractor - 500 hp
2 - 60' flatbed trailer trucks - 350 hp
4 sets oxygen/acetylene cutting torches
200 hp diesel powered air compressor (200 cubic feet/min) with
two jackhammers
3-4 small pickup trucks 175 hp gasoline driven
400 hp diesel powered cementing unit w/250 cubic foot bulk tank
1000' of 3" cementing lines
7-10 workmen
Time on site - approximately 2 to 3 days per location

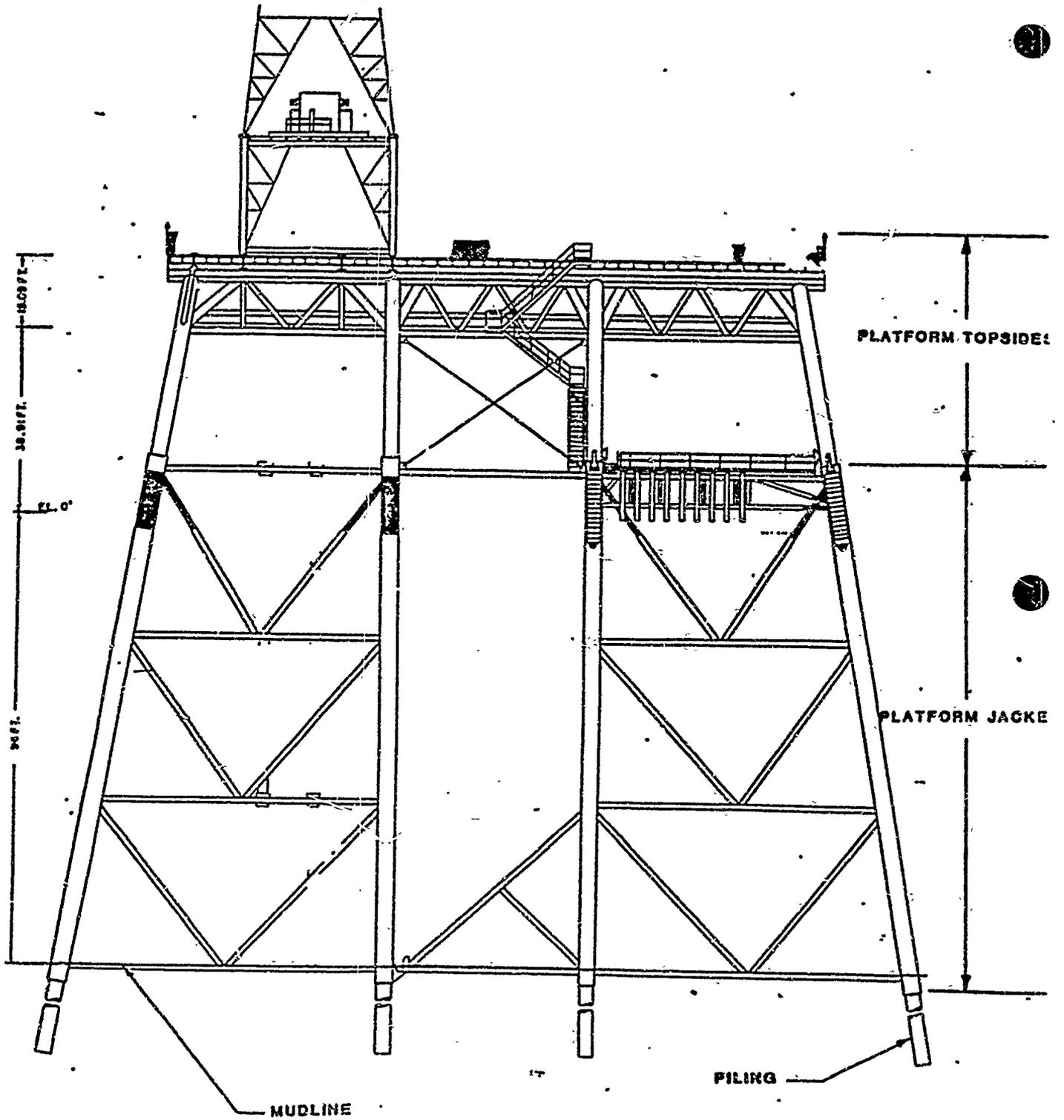
Stage 5 30' diving support vessel - 250 hp diesel engine
Remotely operated underwater inspection vehicle -
electrically powered
2 divers with Helium Oxygen diving equipment
2 support personnel for divers and ROV survey
100' survey boat with appropriate survey equipment powered by
two 400 hp diesel engines
Time on sites - approximately four days per platform

I. APPENDIX

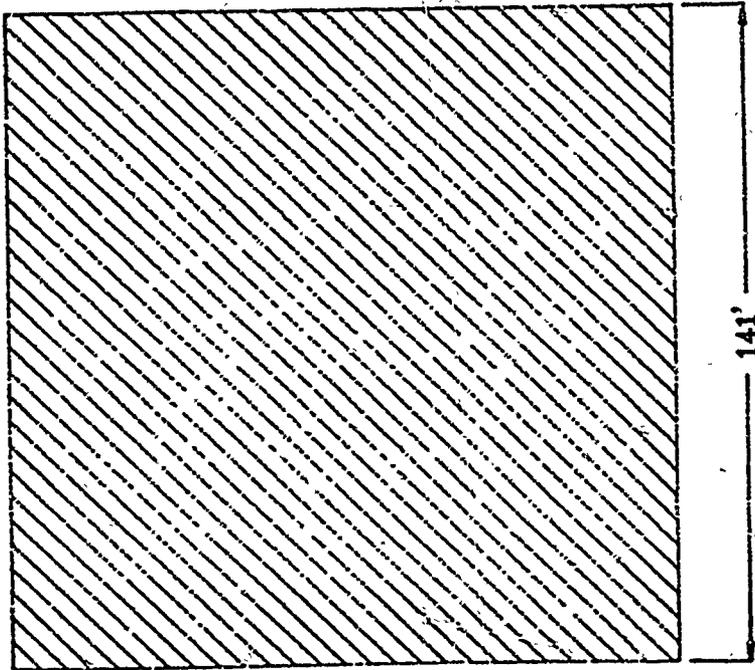
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PLATFORM HELEN
JACKET AND TOPSIDES STRUCTURES

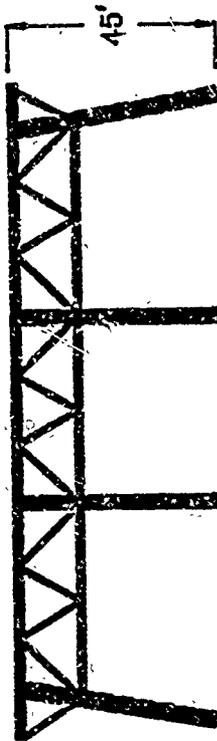


TOP VIEW
(AS SEEN FROM SURFACE)

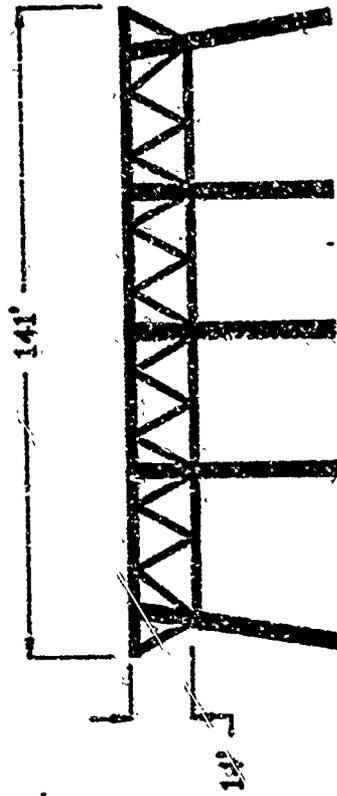


PLATFORM HELEN
TOPSIDES STRUCTURE
PLAN VIEW OF TOPSIDES
PLACEMENT ON OCEAN FLOOR

(figure 2)



SIDE VIEW
(LAYING ON OCEAN FLOOR)



FRONT VIEW
(LAYING ON OCEAN FLOOR)

CALENDAR PAGE
MINUTE PAGE

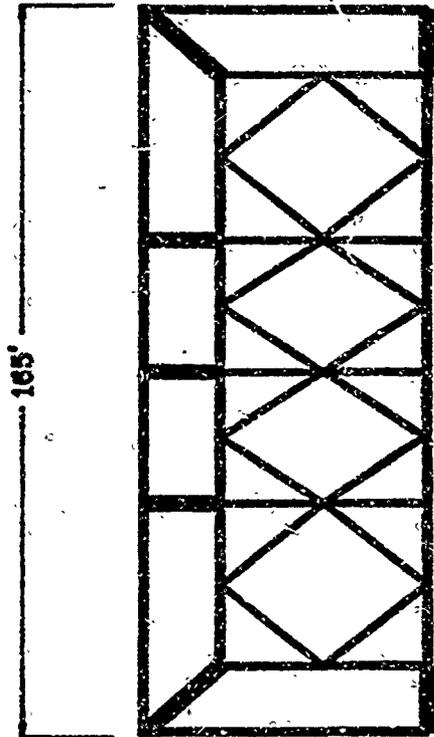
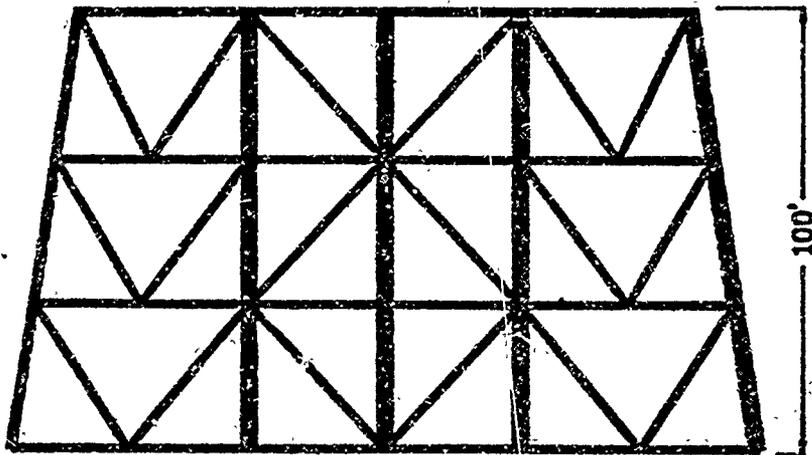
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2725

**PLATFORM HELEN JACKET STRUCTURE
PLAN VIEW OF JACKET PLACEMENT
ON OCEAN FLOOR**

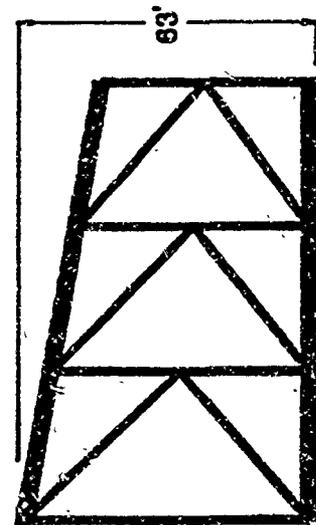
(figure 3)

Note: The installed jacket structure is comprised of two sections which are mirror images of each other. One section is as shown here. Please see the site placement map for the proposed placement orientation of the two sections.

**TOP VIEW
(AS SEEN FROM SURFACE)**

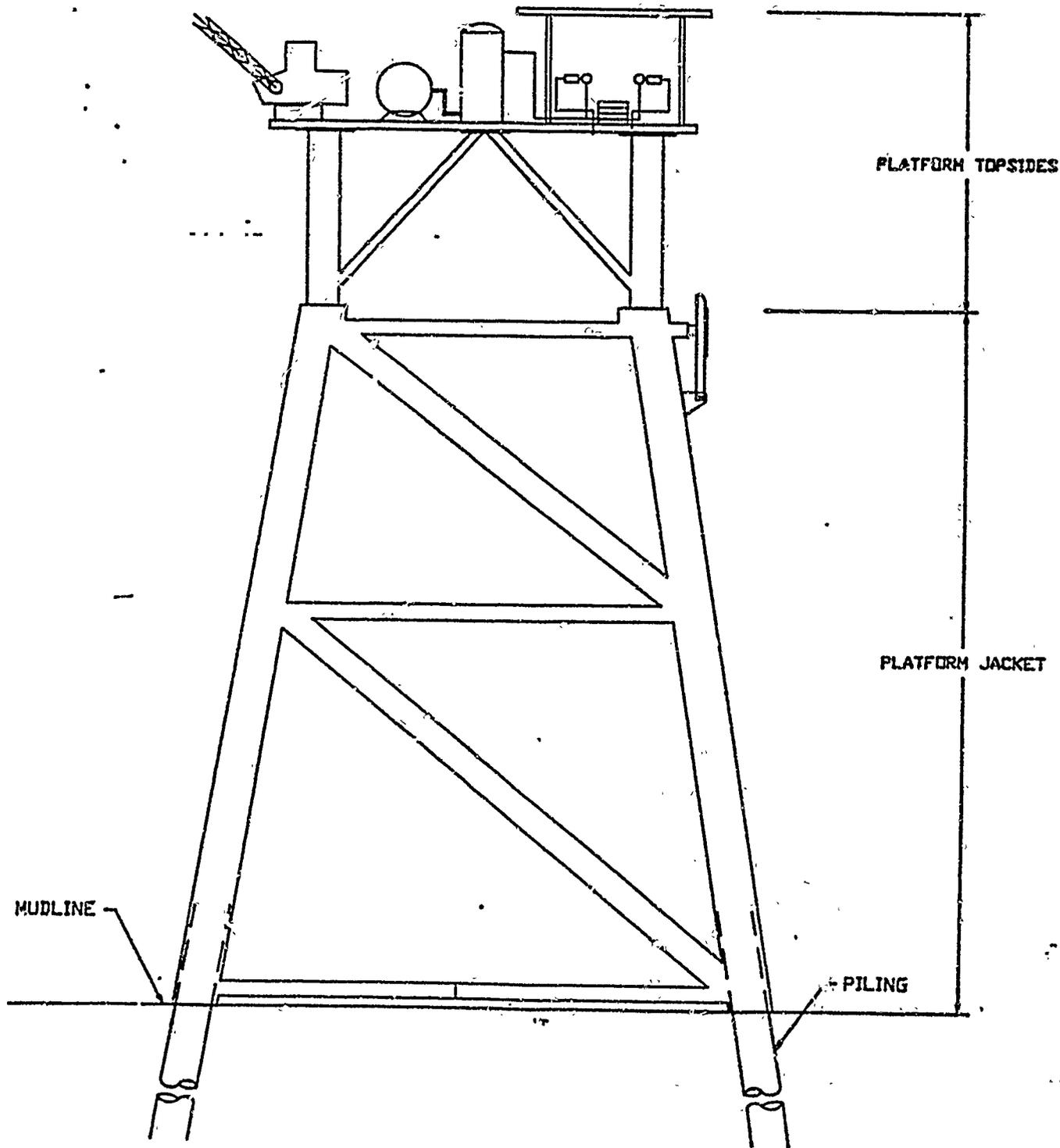


**FRONT VIEW
(LAYING ON OCEAN FLOOR)**

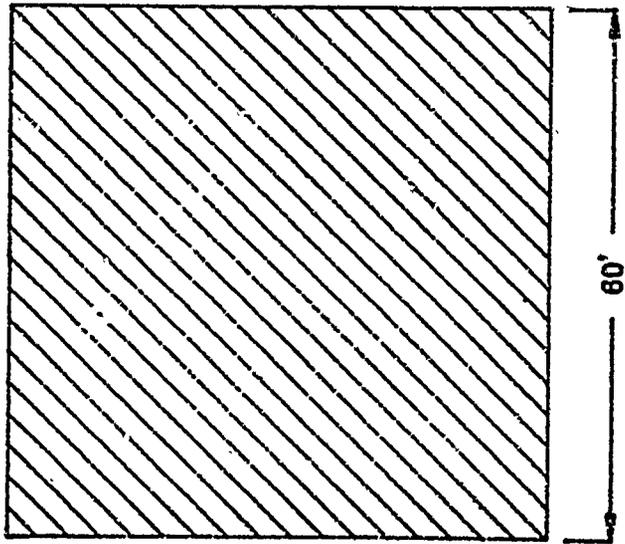


**SIDE VIEW
(LAYING ON OCEAN FLOOR)**

PLATFORM HERMAN JACKET AND TOPSIDES STRUCTURES

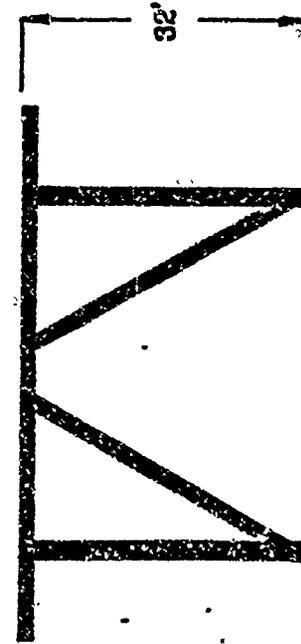


TOP VIEW
(AS SEEN FROM SURFACE)

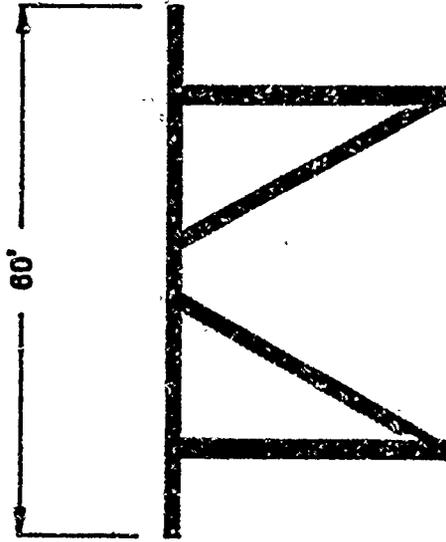


PLATFORM HERMAN
TOPSIDES STRUCTURE
PLAN VIEW OF TOPSIDES
PLACEMENT ON OCEAN FLOOR

(figure 4)

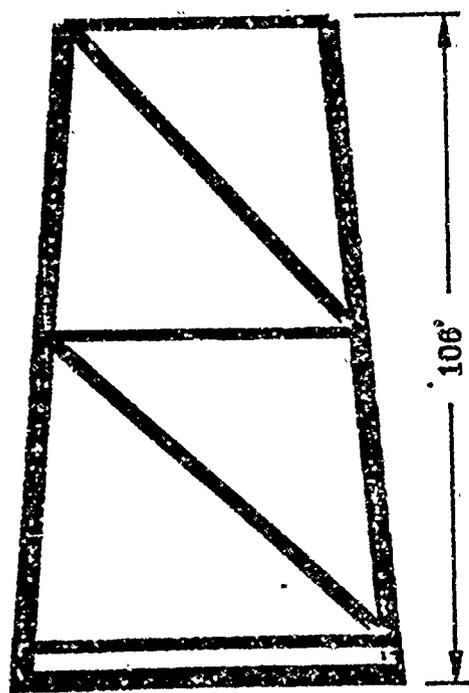


SIDE VIEW
(LAYING ON OCEAN FLOOR)



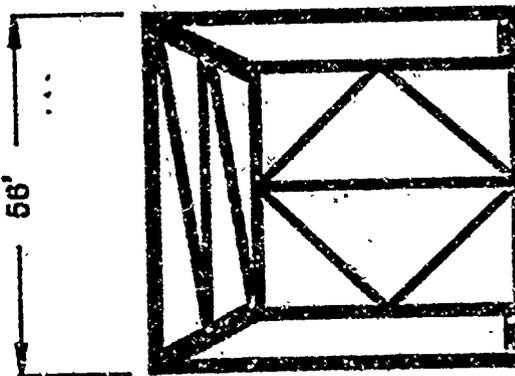
FRONT VIEW
(LAYING ON OCEAN FLOOR)

TOP VIEW
(AS VIEWED FROM SURFACE)

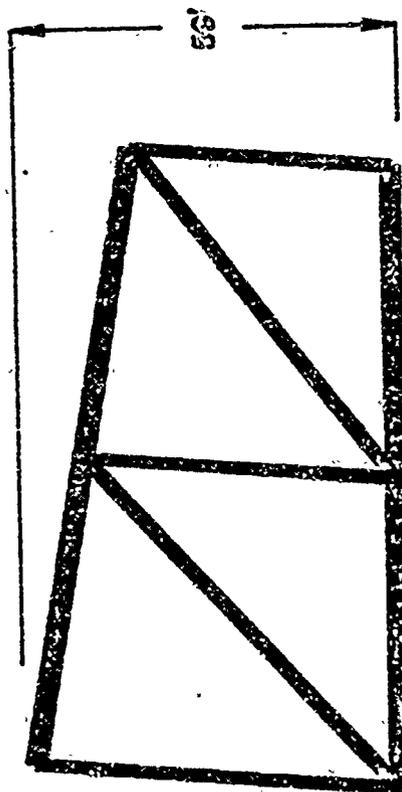


PLATFORM HERMAN
JACKET STRUCTURE
PLAN VIEW OF JACKET
PLACEMENT ON OCEAN FLOOR

(figure 5)



FRONT VIEW
(LAYING ON OCEAN FLOOR)



SIDE VIEW
(LAYING ON OCEAN FLOOR)

(CONTROL)
 5#T 1/2" REBAR
 X = 1,315,362.88
 Y = 360,221.22
 EL. = 9.6

ALEGRIA SHORELINE

BEACH

X = 1,315,296
 Y = 360,202

24" CONCRETE CASING



-1,315,200

SURF

ZONE

TEXACO 8" x 6" OIL & GAS PIPELINES

COORDINATES SHOWN ON THIS SKETCH CONFORM WITH THE CALIFORNIA COORDINATE SYSTEM (LAMBERT PROJECTION) ZONE 5.

ELEVATIONS SHOWN ARE MEAN LOWER LOW WATER, 2.77' BELOW NATIONAL GEODETIC VERTICAL DATUM (SEA LEVEL DATUM), PER U.S.C. & G.S. ADJUSTMENT.

① TOP OF PIPELINES
 X = 1,315,000
 Y = 360,126
 EL. = -7.8

② TOP OF PIPELINES
 X = 1,314,966
 Y = 360,117
 EL. = -9.3

PIPELINES BURIED

-1,315,000

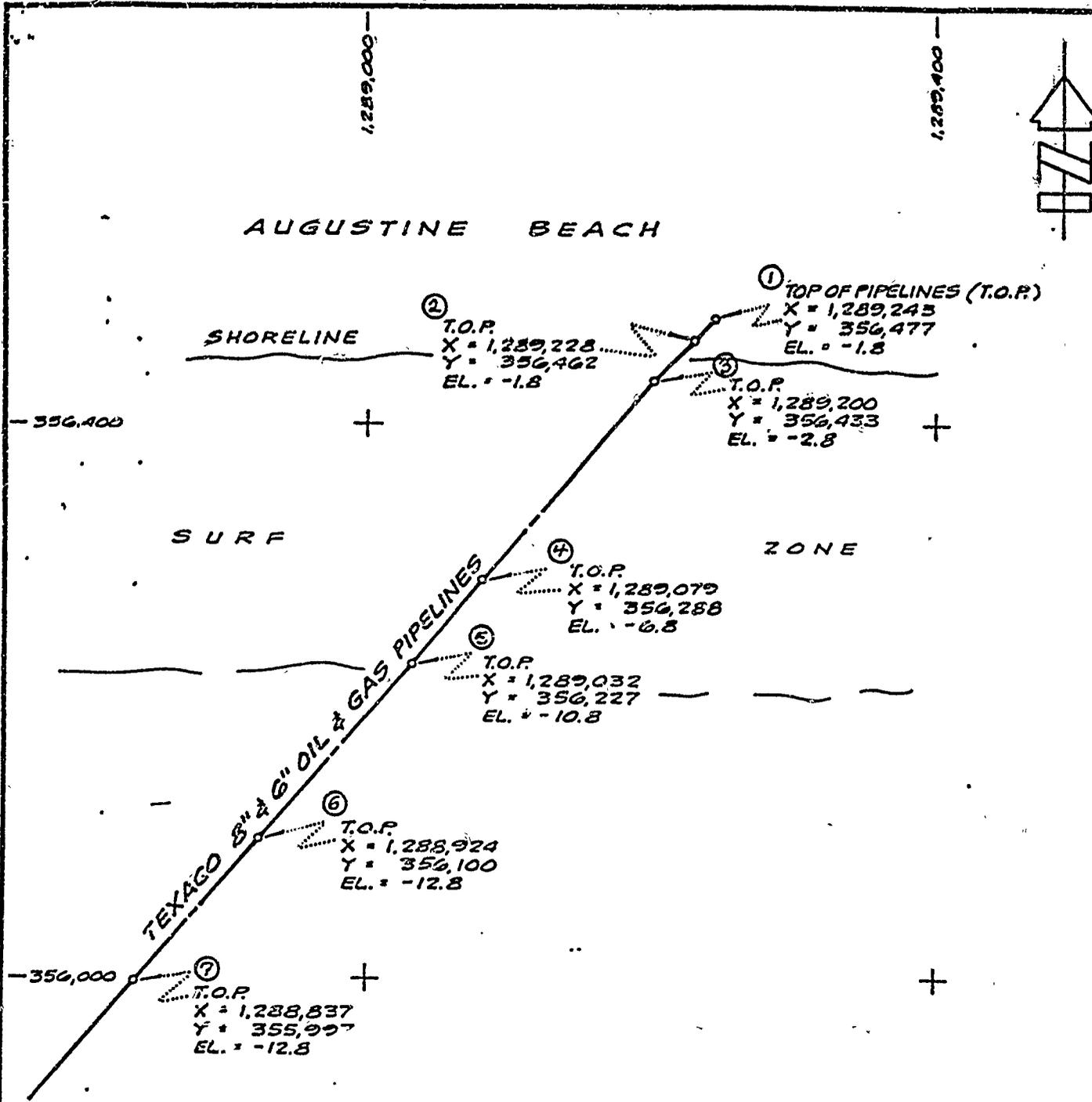


LAND & SEA SURVEYS INC.
 LAND SURVEYORS - OFFSHORE SURVEYORS
 CIVIL ENGINEERS
 2259 PORTOLA ROAD, Suite A
 VENTURA, CA 93003 (805) 658-0455

REVISED TO	BY	POOL	TEXACO INC. DOMESTIC PRODUCING DEPT. LOS ANGELES DIVISION		APPROVED:	DR. BY <i>R.L.V.</i>
		DISTRICT			DATE	TR. BY <i>B.G.R.</i>
					7/15/86	CH. BY
						SCALE, 1" = 50'
						DATE NO.
						CALENDAR PAGE
						137
						MINUTE PAGE
						2,38

INTERNATIONAL UNDERWATER CONTRACTORS
 DIVER LOCATIONS OF EXISTING
 PIPELINES - ALEGRIA BEACH

AUGUSTINE BEACH



COORDINATES SHOWN ON THIS SKETCH CONFORM WITH THE CALIFORNIA COORDINATE SYSTEM (LAMBERT PROJECTION) ZONE 5.

ELEVATIONS SHOWN ARE MEAN LOWER LOW WATER, 2.77' BELOW NATIONAL GEODETIC VERTICAL DATUM (SEA LEVEL DATUM), PER U.S.C.G.S. ADJUSTMENT.

LSSI LAND & SEA SURVEYS INC.
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VENTURA, CA 93003 (805) 658-0455
TLX 757447

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		DISTRICT			DATE	TR. BY B.G.R.
					7/15/86	CH. BY
INTERNATIONAL UNDERWATER CONTRACTORS DIVER LOCATIONS OF EXISTING PIPELINES - AUGUSTINE BEACH						SCALE: 1" = 100'
						DWG. NO.
						2121
						CALENDAR PAGE
						DATE PAGE

SHORECROSSING REMOVAL SITE AT ALLEGRIA BEACH
PLATFORM HELEN 6" OIL & 8" GAS PIPELINES

