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CONCEPTUAL PLAN OF DEVELOPMENT
AND
OPERATION
EAST SIDE OF OCS P-0240

Prepared For
U. S. Department of the Interior
Geological Survey

by
The Superior Oil Company
Marathon Oil Company
Sun Production Company

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1.0 INTRODUCTION

This report was prepared in compliance with directives of the United States Department of the Interior, Geological Survey. Its purpose is to present the approach of Sun Production Company, The Superior Oil Company, and Marathon Oil Company to the development and operation of the east side of OCS P-0240, Santa Barbara Channel, California. The exploitation of OCS P-0240 will adhere to the principles of developing the maximum quantity of reserves by the optimum method as determined by prudent operation

The proposed development consists of the design, construction and installation of a 30-slot Platform Henry at a location 3600' SNL and 1500' WEL of OCS P-0240. The platform will be connected to Platform Hillhouse with a maximum of three 8-inch pipelines for the transportation of crude oil, natural gas and produced water. All production will be processed and sold through existing equipment on Hillhouse. Following installation of the platform a self-contained drilling rig will be installed and approximately 21 wells drilled and completed.

This document contains the concept for the proposed development of the east side of OCS P-0240. It recognizes that current Pacific OCS Orders require specific applications for approval of the platform design, process equipment, pipelines and development wells. As a result, these items are briefly described and detailed applications will be submitted only after approval of this plan in concept.

2.0 PLATFORM HENRY DISCUSSION

Platform Henry will be a conventional template-type, 30-slot, self-contained drilling and production platform. The eight-pile platform will be similar to Platform Hillhouse and will be designed in accordance with API RP-2A and the requirements of applicable OCS Orders.

The platform is proposed for installation in an approximate water depth of 175 feet at Lambert Coordinates, Zone VI of X = 1,000,580', and Y = 804,240'. This location was chosen as the expected center of the volumetric accumulation of oil and gas reserves. The platform site will be investigated for installation hazards and soil properties prior to determination of design criteria.

Platform Henry will be equipped with aids to navigation in compliance with U. S. Coast Guard regulation for Class "A" offshore structures. In addition all appurtenances and their operation will conform to all applicable state and federal regulations and codes.

A drawing illustrating the approximate dimensions of Platform Henry is included in the appropriate section of the report. Final dimensions will be determined after equipment selections are made and the structural design of the platform is completed.

3.0 SUBMARINE PIPELINES AND CABLE DISCUSSION

A maximum of three (3) submarine pipelines will be utilized to transport the produced oil, produced brine and natural gas from Platform Henry to Platform Hillhouse. The pipelines will be designed, constructed, and installed according to existing OCS Orders and

3.0 SUBMARINE PIPELINES AND CABLE DISCUSSION (continued)

with regard for any other applicable federal regulations. Upon approval of this conceptual plan, an application according to OCS Order No. 9 will be submitted to provide the necessary details.

In addition to the submarine pipelines, approval for the use of an electrical submarine cable is requested. This cable will provide emergency electrical power for Platform Henry and provide communications for the platform. The design and installation of the cable will conform to applicable electrical codes.

4.0 OPERATIONS AND PROCESS EQUIPMENT

4.1 General:

Production facilities will consist of gas and liquid separation and limited processing necessary to prepare the produced fluids for transport in submarine pipelines to Platform Hillhouse for final processing and sales with the Hillhouse production. The combined production will be sent ashore and undergo final processing through existing pipelines connecting Platform Hillhouse to onshore facilities at Rincon. The onshore processing facility has sufficient capacity to handle Henry production without expansions or modification.

4.2 Safety Devices:

The facilities on Platform Henry will be equipped with surface and subsurface control devices to ensure that appropriate alarms will indicate any malfunctions and the platform will be shut-in automatically if the malfunction constitutes

4.0 OPERATIONS AND PROCESS EQUIPMENT

4.2 Safety Devices: (continued)

any operational hazard or if any emergency situation exists. All shutdown systems will be manual reset. The shut-in controls for safety and pollution control equipment and procedures will conform to OCS Order No. 8.

4.3 Method of Lifting:

Artificial lift will be utilized after the wells cease to flow. The method selected will be designed to maximize recovery and efficiency and to conform to all OCS regulations. The equipment required to artificially lift the wells will be installed on Platform Henry.

4.4 Personnel:

Initially, all operations will be controlled by one operator. A work shift schedule will provide 24-hour surveillance. The maintenance crews, foremen and supervisors will be available when required.

5.0 GEOLOGY

Geology Section

Pursuant to the Freedom of Information Act (5 U.S.C. 552) and its implementing regulations (43 CFR Part 2) and as provided in 30 CFR 550.199(b), the information contained in this section is deleted from the public information copy of this submission.

*****Proprietary*****

*****Not for Public Release*****

6.0

RESERVOIR ENGINEERING

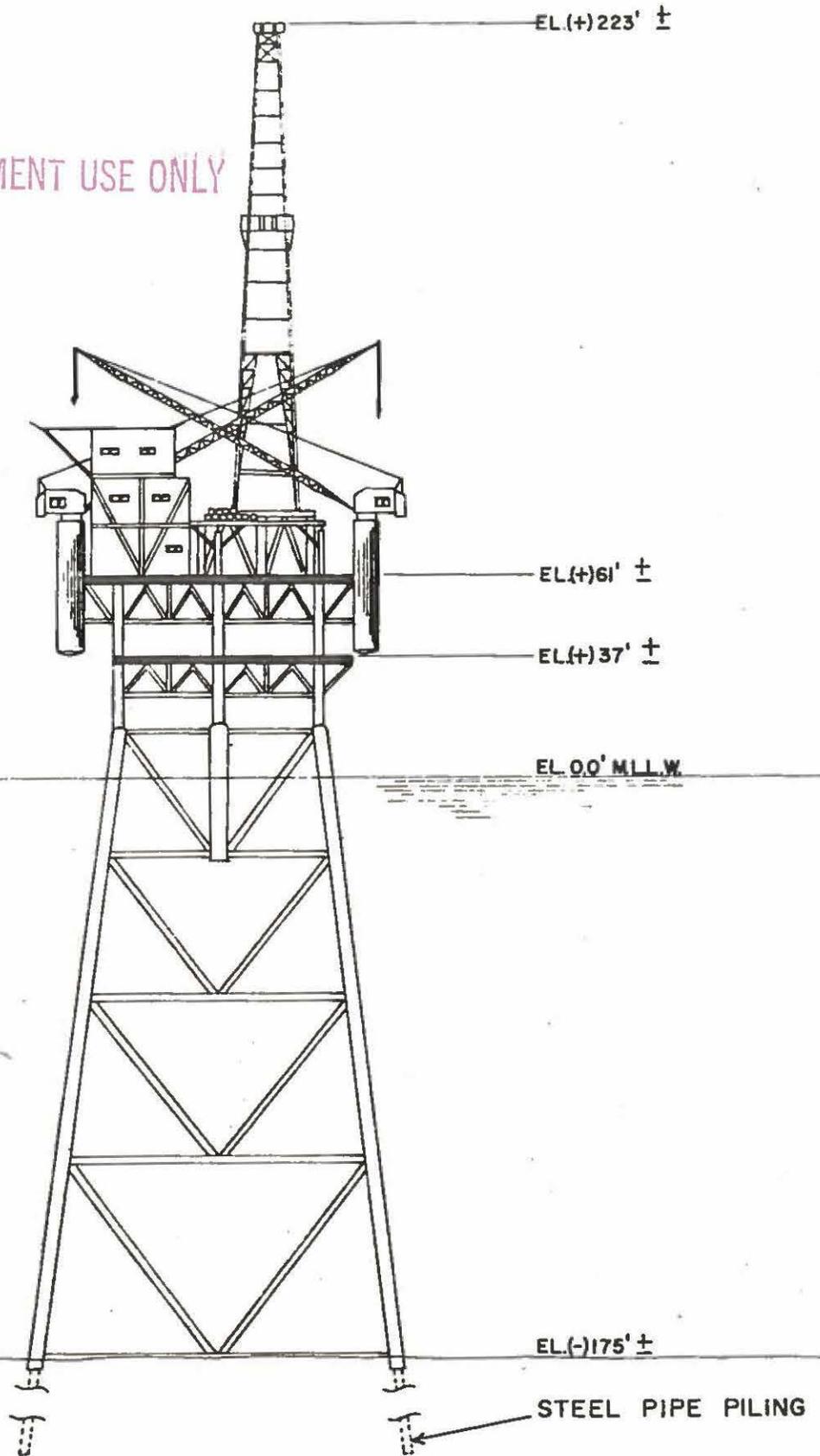
Reservoir Evaluation Section

Pursuant to the Freedom of Information Act (5 U.S.C. 552) and its implementing regulations (43 CFR Part 2) and as provided in 30 CFR 550.199(b), the information contained in this section is deleted from the public information copy of this submission.

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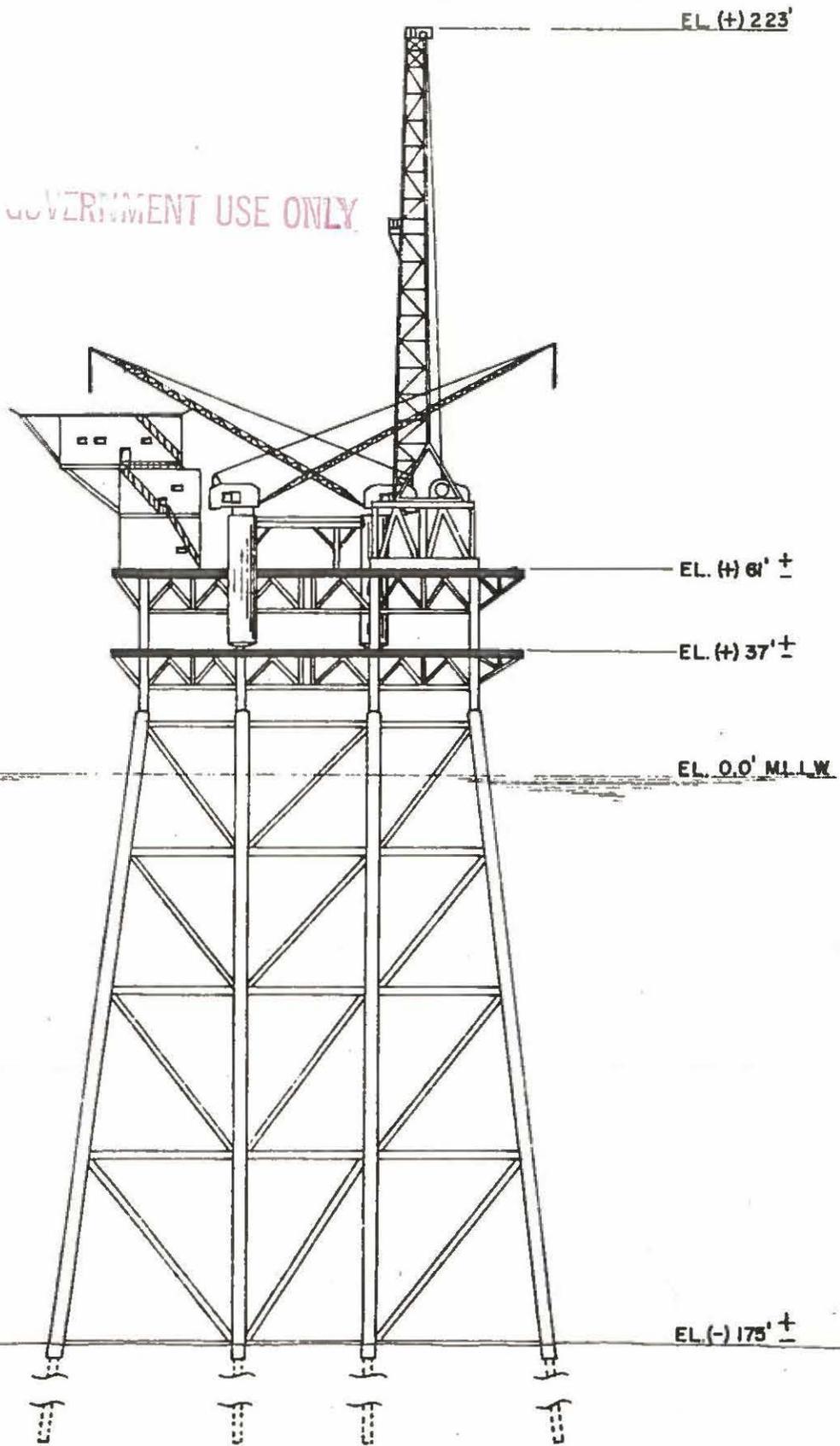


ELEVATION
LOOKING WEST

Drawing No. 1

SUN PRODUCTION CO.	
OCS-P-0240 Ventura	SSM GROUP California
Proposed Drilling & Production Platform "Henry"	
Scale 1" = 50'	

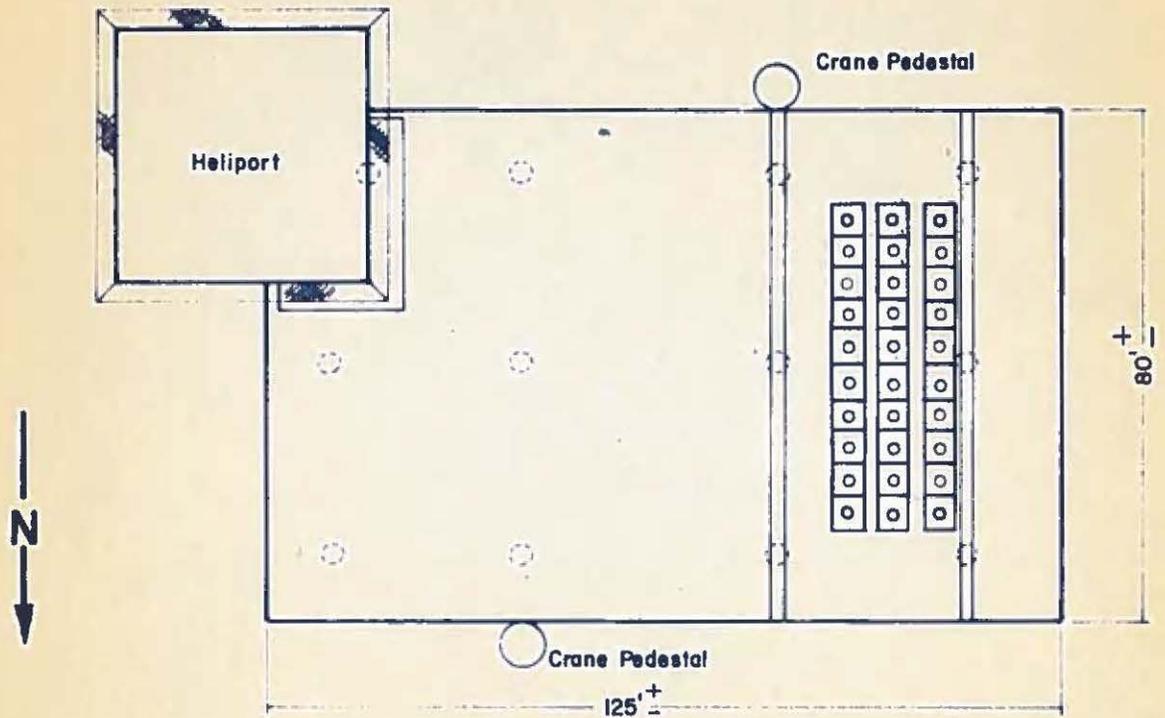
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ELEVATION
LOOKING SOUTH

Drawing No. 2

SUN PRODUCTION CO.	
OCS-P-0240 Ventura	SSM GROUP California
Proposed Drilling & Production Platform "Henry"	
Scale 1"=50'	



DRILLING DECK PLAN

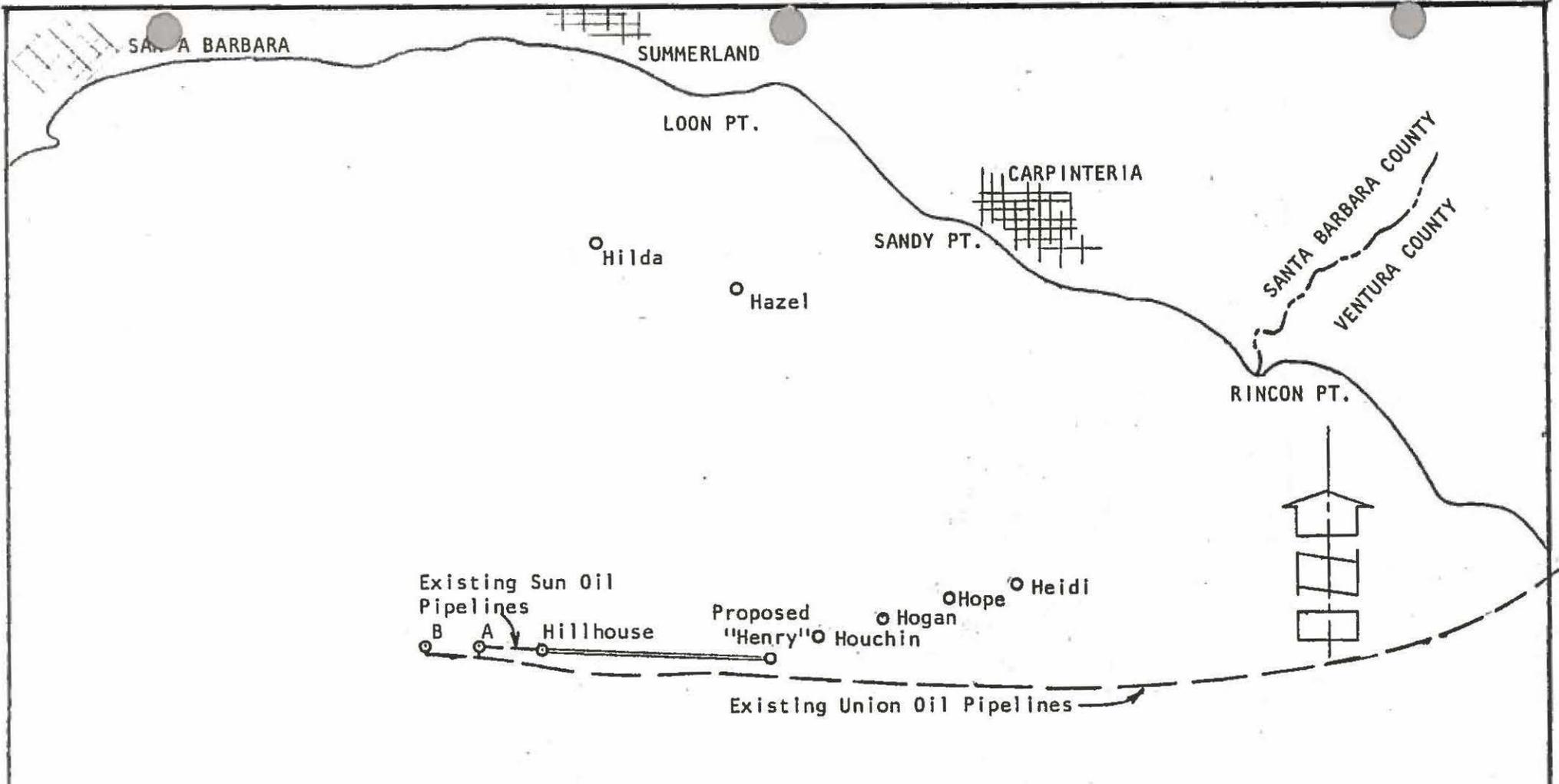
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SUN PRODUCTION CO.	SSM GROUP
OCS-P-0240 Ventura	California

Proposed Drilling & Production
Platform "Henry"

Scale 1" = 30'

Drawing No. 3



VICINITY MAP

1"=8000'

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SUN PRODUCTION CO.

OCS-P-0240

PROPOSED PLATFORM
HENRY
PIPELINES

Drawing No. 4

OCS-P-0241

OCS-P-0240

PROPOSED
SUN OIL CO.
PLATFORM HENRY
X=1,000,580
Y= 804,240
Lat.=34° 19' 59.9"
Long.=119° 33' 37.6"

SUN OIL CO.
PLATFORM HILLHOUSE
X=987,640
Y=803,940
Lat.=34° 19' 52.9"
Long.=119° 36' 11.7"

UNION OIL CO.
PLATFORM "A"

N 88° 40' W 12,940'

W.D.=190'

W.D.=175'

Proposed Sun Oil Co.
Submarine Pipelines:

Existing Sun Oil Co.
Submarine Pipelines

Existing Union Oil Co.
Submarine Pipelines

Bearings, distances and coordinates
shown on this sketch conform to the
California Coordinate System
Lambert Projection (Zone VI).

PLAN

Scale: 1" = 2000'

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SUN PRODUCTION CO.
PROPOSED SUBMARINE PIPELINES

In: Santa Barbara Channel
County of: Santa Barbara

Off: Carpinteria
State of Calif.

Drawing No. 5