



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
7211 FEDERAL BUILDING
300 NO. LOS ANGELES STREET
LOS ANGELES, CALIFORNIA 90012

yellow copy

PROPRIETARY

April 11, 1977

Mobil Oil Corporation
612 South Flower Street
Los Angeles, California 90051

Attention: Mr. R. M. Voils

Re: Hueneme Field, Plan of Development

Gentlemen:

Your initial plan of development for Hueneme field in the Santa Barbara Channel submitted June 25, 1976 and consisting of proposals to construct and install a combination drilling and production platform on lease OCS-P 0202, to drill approximately 15 wells from the platform, and to install pipelines to handle produced fluids from the platform is hereby approved, in concept. However, each phase of the proposed development will require review and approval by the Area Oil and Gas Supervisor (hereinafter referred to as the Supervisor) and will be subject to, but not limited to, the following stipulations:

1. Adherence to the requirements contained in the Federal regulations for the Outer Continental Shelf and in pertinent OCS Orders, both present and future, issued by the Oil and Gas Supervisor, Pacific Area.
2. A description of each planned phase of the operation for the service life of the project; this shall include provisions for abandonment and removal and a statement as to the conflict with commercial fishing operations and recreational activities in the area during the life of the project.
3. All phases of the proposed installation shall be certified by a registered professional engineer, mechanical, electrical, or structural, as appropriate.
4. Prior to the commencement of construction and installation a tentative progress schedule shall be submitted to the Supervisor. This schedule shall be updated, as appropriate, during the course of construction and installation.

5. During construction and installation, the Supervisor, or his authorized representative shall have access to the site or sites of activity.
6. Periodic progress reports shall be submitted to the Supervisor, at intervals of approximately one month, or as particular phases are completed or substantial progress made.
7. The Supervisor shall be notified upon the completion of each phase of the project and upon final completion. As built drawings shall be furnished to the District Engineer and the Supervisor for each installation completed.
8. Submittal to, and approval by, the Supervisor of the following, in regard to construction and installation of the platform:
 - a. Final design of the structure including static and dynamic stress analysis to indicate acceptability with the seismicity and geotechnical characteristics at the site as well as wind, wave, and current forces in the area.
 - b. Detailed description of lifting and installation methods and procedures.
 - c. Drilling and production equipment installation.
 - 1) Plan view of each platform deck outlining any non-hazardous area/areas which are unclassified with respect to electrical equipment installations, and areas in which potential ignition sources are to be installed. Plan views shall include any surrounding production or other hydrocarbon source. Also, a description of deck, overhead, and firewall shall be included.
 - 2) A flow schematic showing size, capacity, and design working pressure of separators, treaters, storage tanks, compressors, pumps, metering devices, valves, and similar equipment including a reference to welding specifications or codes used.
 - 3) Flow schematics of pollution and safety controls identified according to nomenclature (definition, symbols, and identification) contained in API-RP 14C shall be accompanied by an explanation as to functions and sequence of operation.
 - a) Pollution control systems.
 - (1) High and low shutoffs and alarms for level, pressure and temperature.

- (2) Manual control shutoff stations and systems.
 - (3) Water disposal (produced and sanitary) cleanup systems.
 - (4) Platform drainage and sump systems.
 - (5) Solids disposal - drill cutting and drilling mud, sewage, garbage, etc.
- b) Safety control systems.
- (1) Combustible gas and H₂S alarm and shutoff systems.
 - Enclosed area pressurized systems and ventilation systems.
 - A diagram specifying the type, location and number of detection or sampling heads.
 - Cycling, non-cycling, and frequency information.
 - Type and kind of alarm, including emergency equipment to be activated.
 - (2) Fire control systems.
 - Heat and flame detection, alarm and shutoff systems.
 - Deluge and water line systems.
 - Chemical systems.
 - Fusible plug systems.
 - A diagram of the fire-fighting system showing the location of all equipment.
- c) Personnel protection.
- (1) Living quarters.
 - (2) Control stations.
 - (3) Boat landings and helicopter decks.
 - (4) Egress routes.

- 4) Diagrams of the electrical system to include the following:
 - a) Locations of generators/alternators, or other source; panel boards; major cabling/conduit routes and identification of wiring method.
 - b) Type, rating, and operating and safety controls of generators/alternators and prime movers.
 - c) Main and satellite switchboards including interlocks, controls, and indicators.
 - d) Feeder and branch circuits, including circuit load, wire type and size, motor protection, and circuit breaker setting.
 - e) Calculation or measurement of electrical system voltage drop caused by starting current of largest motor while normal load-operating conditions exist.
 - f) Elementary electrical schematic of any platform safety/ alarm/shutdown system with functional legend.

9. Submittal to, and approval by, the Supervisor in regard to construction and installation of pipelines.

a. General information concerning the pipeline including the following:

- 1) Geologic and seismic review of route, ocean bottom and current survey with water depths.
- 2) Product or products to be transported by the pipeline, with anticipated volumes, working pressures, and gravity or density of product.
- 3) Length of line, size, weight and grade of pipe; maximum working pressure and capacity of line.
- 4) Installation procedure with bulk specific gravity of the line (line empty).
- 5) Description of protective coating and type or types of corrosion protection.
- 6) Type, size, pressure rating, and location of pumps and prime movers, and similar information for any intermediate stations.

b. Drawing(s) showing the major features and other pertinent data including:

- 1) Route.
 - 2) Location.
 - 3) Water depth.
 - 4) Length.
 - 5) Connecting facilities.
 - 6) Size.
 - 7) Burial depth, if buried.
- c. A schematic drawing showing the location and function of pipeline safety equipment:
- 1) High-low pressure sensors and alarms.
 - 2) Automatic shut-in valves.
 - 3) Check valves.
 - 4) Vessels and traps.
 - 5) Manifolds.
 - 6) Volumetric metering system.
 - 7) Corrosion monitoring and protection equipment.
10. Prior to commencing operations emergency operating procedures and contingency plans shall be submitted to the Supervisor for approval:
- a. Oil spill: containment and cleanup procedures.
 - b. H₂S.
 - c. Critical operations.
 - 1) Simultaneous operations.
 - a) Narrative description.
 - b) Schematic plans showing areas of activities.
 - c) Identification of critical areas of simultaneous activities.

d) Procedure for mitigation of potential undesirable events including:

- (1) Guidelines the operator will follow to assure coordination and control of simultaneous activities.
- (2) Indication as to the person having overall responsibility, as person in charge at the site, for safety of platform operations.
- (3) An outline of any additional safety measures required for simultaneous operations.
- (4) Specifications of any added or procedural conditions imposed when simultaneous activity is in progress.

2) A welding and burning safe-practices plan similar to the above.

11. Prior to commencing operations, a communications plan and personnel and material transportation plans including any provisions for stand-by boats during hazardous operations shall be submitted to the Supervisor for approval. These will primarily be the responsibility of the District Engineer and shall be reviewed periodically with the District Engineer.
12. Prior to commencement of drilling, generalized drilling and completion programs shall be submitted for approval by the Supervisor. At the same time, or as soon as sufficient information is obtained, detailed completion practices shall be submitted for approval to the Supervisor. The provisions of OCS Order No. 11 shall be followed in this regard. This is not to be interpreted as nullifying the requirement to obtain an approved application to drill from the District Engineer prior to commencing drilling operations, nor to obtain subsequent permits (supplementary notices, etc.) prior to program changes, completions, etc.
13. Plans and procedures for inspections, training and drills shall be submitted to the Supervisor for approval. These will primarily be the responsibility of the District Engineer and shall be reviewed periodically with the District Engineer. These plans and procedures should cover all normal activities and emergency procedures, concerned with any and all installations mentioned above, and any events that might be expected to occur on the proposed installation. They shall include methods and frequency of testing, calibration, drills, and training as well as organizational or personnel responsibility that insures that plans and procedures are carried out.

All of the above stipulations are intended as a guide to insure prompt approval for each phase of your development program. The Supervisor reserves the right to request any further information he may require. The manner in which you submit the above information may make it possible to include several requirements on the same submittal. Duplicate submittals of the same material will not be necessary and may be included by reference.

The oil spill and H₂S contingency plans previously submitted in conjunction with your plan of development for Hueneme field have also been reviewed and are hereby approved.

Sincerely yours,

H. T Cypher
Acting Oil and Gas Supervisor
Pacific Area

cc: Conservation Manager, Western Region
District Geologist, Los Angeles
District Engineer, Santa Barbara
Environmental Section
Hueneme Field

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