

# **Outer Continental Shelf Oil and Gas Information Program**

## **Pacific Index**

**(November 1980 - June 1981)**

**by Mary Ann Collignon**

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# 1. Introduction

In an effort to develop the oil and gas resources of the Outer Continental Shelf (OCS), the United States currently conducts a leasing program for these resources. The Secretary of the Department of the Interior has been designated by the Outer Continental Shelf Lands Act of 1953 (43 U.S.C. 1331-1343), as amended by the Outer Continental Shelf Lands Act Amendments of 1978, to manage and regulate many of the activities that relate to the leasing, exploration, development, and production of the OCS mineral resources. Many of the Secretary's responsibilities have been delegated to the Bureau of Land Management (BLM) and the U.S. Geological Survey (USGS).

Under the Outer Continental Shelf Lands Act Amendments, an Outer Continental Shelf Oil and Gas Information Program was created and is managed by the BLM and the USGS. Authorities and operating procedures are detailed in the Code of Federal Regulations at 30 CFR 252 and 43 CFR 3300.

Under this program, regional indexes are prepared by the USGS in conjunction with the BLM, and they list all relevant, actual, or proposed programs, plans, reports, environmental impact statements, and other lease sale information. The indexes are provided on a regular basis to affected States and, upon request, to local governments.

In July 1979, the Office of Outer Continental Shelf Information of the U.S. Geological Survey issued an initial Pacific Index, covering the period from January 1975 to May 1979. The second edition (Kolasinski, 1981, USGS Open-File Report 80-1201) was cumulative, and it documented the period from Janu-

ary 1962 to October 1980. This third edition of the Pacific Index supplements the previous edition and catalogs lease sale information in the Pacific OCS Region from November 1980 to June 1981.

The Office of OCS Information also issues regional summary reports and updates providing current information about offshore oil and gas resources and onshore activity to assist State and local governments in affected areas in planning for impacts that may result from potential OCS oil and gas exploration and development and production.

The address of the Office of OCS Information and a list of the documents issued and those in progress are provided on the inside front cover of this document.

## CONTENT AND FORMAT OF THE INDEX

As a means of understanding the OCS leasing program, chapter 1 contains a description of the OCS leasing process from a national perspective and discusses the 5-year leasing programs. Information is also included on the current OCS oil and gas leasing schedule. Chapter 2 chronicles the history of the Pacific OCS Region from 1962 to the present. The index begins in chapter 3, which describes the steps in the pre- and post-lease-sale processes. Relevant documents produced between November 1980 and June 1981 are listed by sale following the appropriate steps. Ongoing programs of the Bureau of Land Management and the U.S. Geological Survey that support the OCS leasing process are described in chapter

4. Chapter 5 discusses State involvement in the OCS leasing process and includes tables showing State participation in each of the steps, as well as autonomous State responsibilities for OCS-related activities. The appendixes include directories of Federal and State OCS-related contacts and other information pertinent to the OCS leasing process.

Except when noted otherwise, all the documents listed within this index are available as of June 30, 1981, for public inspection during hours of operation at the appropriate OCS office. Copies of materials may be obtained for a fee. Pre-lease-sale environmental impact statements can also be reviewed at selected depository and other designated libraries. A partial listing of depository libraries may be found in appendix C of this index. Pre-sale documents can be reviewed at the BLM/OCS office shown below:

Bureau of Land Management  
Pacific OCS Office  
1340 West 6th Street, Room 200  
Los Angeles, CA  
(213) 688-7234.

Post-sale documents can be examined at the following office:

U.S. Geological Survey  
Conservation Division  
Pacific OCS Region  
1340 West 6th Street, Room 240  
Los Angeles, CA  
(213) 688-2846.

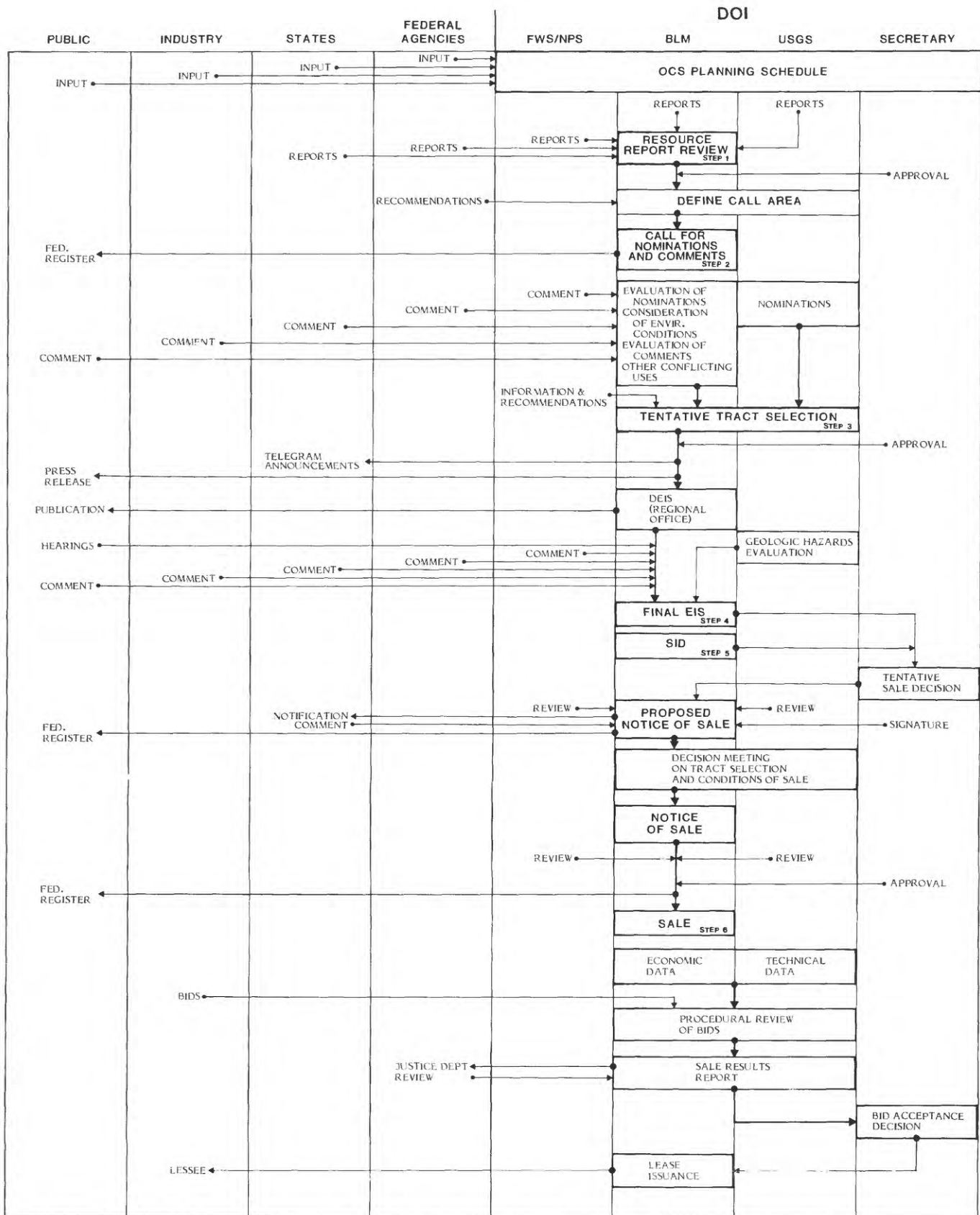
## THE OCS LEASING PROCESS

The OCS Lands Act, as amended, provides the authority under which the Secretary of the Department of the Interior manages mineral operations on the OCS. Regulations written to implement the Act establish procedures through which the Secretary exercises these authorities. Title 43 of the Code of Federal Regulations, part 3300 et seq., governs the OCS activities administered by the Bureau of Land Management. Parts 250, 251, and 252 of title 30 of the Code of Federal Regulations cover OCS activities administered

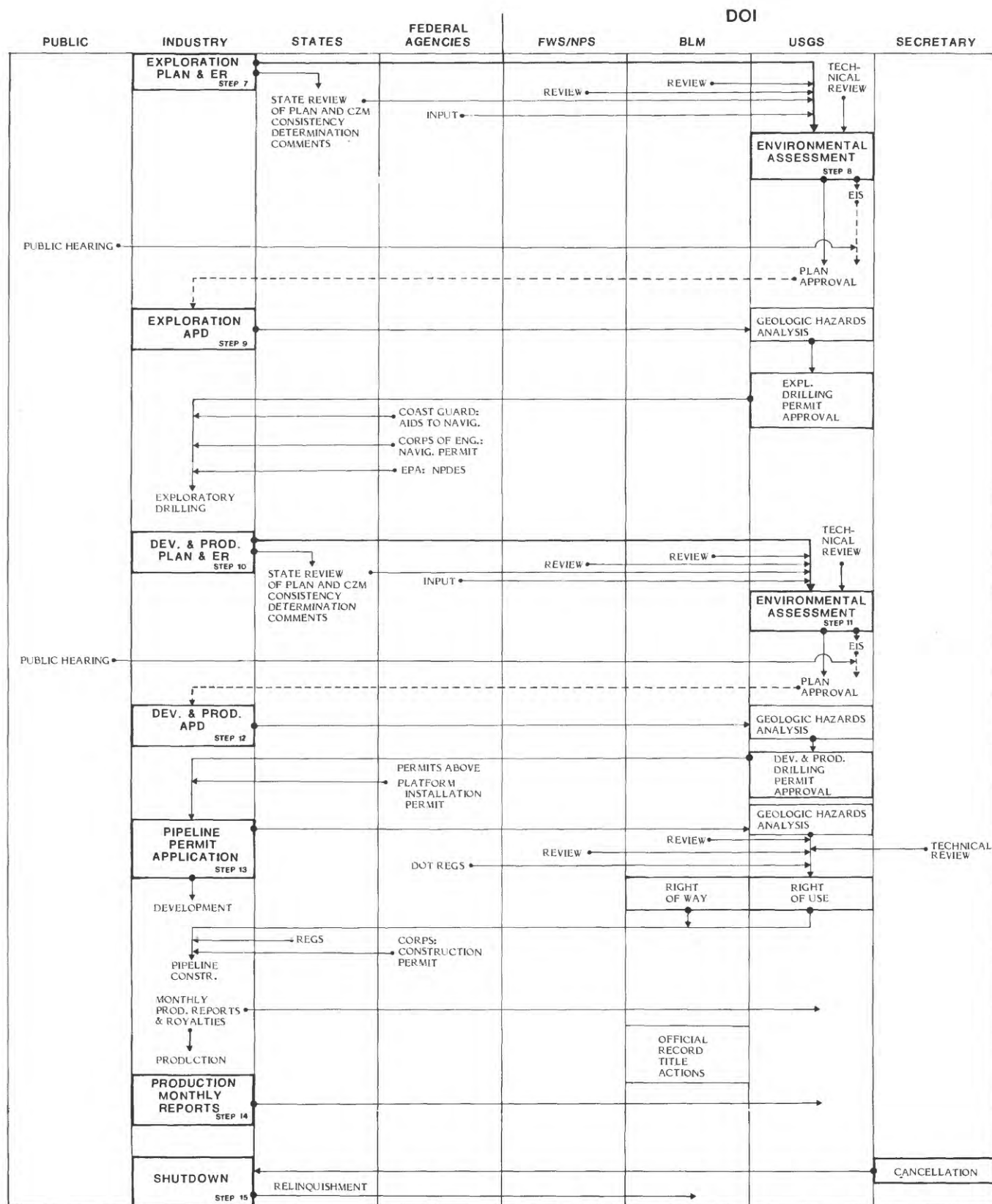
by the U.S. Geological Survey, geological and geophysical explorations conducted on unleased lands, and the responsibilities of the OCS Information Program, which is administered by the Office of Outer Continental Shelf Information. The Bureau of Land Management and the U.S. Geological Survey, both within the Department of the Interior, are the agencies with primary responsibility for management of the OCS mineral operations. However, numerous other agencies and departments participate throughout the process.

For purposes of this index, the OCS leasing process has been broken into a series of 15 steps. The pre-sale phase is outlined in figure 1 and the post-sale phase in figure 2. The purpose of the pre-sale phase of the process is to select tracts to be offered for lease within the broad geographical areas listed on the current OCS oil and gas leasing schedule. During this phase, geological, geophysical, and environmental data are continuously collected, analyzed, and refined. The U.S. Geological Survey gathers and analyzes technical information on potential mineral resources, geological hazards, and other geological and geophysical data. Federal and State agencies and departments provide additional information appropriate to their areas of expertise, including social and economic data, especially in response to the request for resource reports and during the preparation of the pre-sale environmental impact statement. The Bureau of Land Management is responsible for coordinating and analyzing all pre-sale data and for identifying new information needs. The Bureau of Land Management is also responsible for evaluating responses from State and local governments and the public, which are solicited at various points throughout the pre-sale phase.

The post-sale phase of the OCS leasing process begins once leases have been issued by the Bureau of Land Management. The U.S. Geological Survey is responsible for supervising and regulating exploration, development, and production activities on the leased tracts. The USGS evaluates exploration and development and production plans and approves drilling permit applications under those plans. Pipelines for the transportation of oil and gas from producing wells require permits granted by the U.S. Geological Survey, the Bureau of Land Management, and other agencies.



**FIGURE 1.—OCS leasing process--pre-sale phase.** (Adapted from Kolasinski, 1981, Pacific Index (January 1962-October 1980): prepared for the Outer Continental Shelf Oil and Gas Information Program by Rogers, Golden & Halpern, USGS Open-File Report 80-1201, p. 3.)



**FIGURE 2.—OCS leasing process—post-sale phase.** (Adapted from Kolasinski, 1981, Pacific Index (January 1962–October 1980): prepared for the Outer Continental Shelf Oil and Gas Information Program by Rogers, Golden & Halpern, USGS Open-File Report 80-1201, p. 4.)

## OCS OIL AND GAS LEASING SCHEDULE

### 43 CFR 3310

The Secretary of the Interior is responsible for the preparation of a leasing program consisting of a schedule for proposed lease sales, indicating the timing and location of leasing activity for a 5-year period and estimating the appropriations and staff required to implement the program. Four objectives, outlined in the OCS Lands Act Amendments of 1978, are considered in the development of the leasing program: (1) orderly and timely resource development; (2) protection of the human, marine, and coastal environments; (3) receipt of fair market value to the public; and (4) preservation and maintenance of free enterprise competition.

Pursuant to the OCS Lands Act Amendments, regulations (43 CFR 3310) were published in the Federal Register, vol. 43, no. 208, October 26, 1978, establishing procedures to be followed in developing the 5-year program. During the preparation of the proposed leasing program, the Secretary of the Interior is required to invite and consider suggestions and relevant information from all interested parties, including Federal agencies, the Governors of affected States and, through the States, local governments, industry, and the general public. The request for information is issued as a notice in the Federal Register. For the current program, covering the period from 1980 to 1985, this notice appeared in the Federal Register, vol. 43, no. 208, October 26, 1978. Comments were requested on the geographical, geological, and ecological characteristics of the broad areas under consideration, other uses of the resources and space of the OCS, identification of areas of environmental sensitivity and marine productivity, and the technological feasibility of, time periods required for, and interest in exploration and development of the OCS. The Secretary also sent letters to the Governors of affected States, asking them to identify specific laws, goals, and policies they believed should be considered by the Secretary in connection with the leasing program. States that were developing or administering a coastal zone management (CZM) program were also requested to supply information concerning the relationship between their CZM programs and OCS oil

and gas activity. Also at this time, the Department of Energy began preparation of a draft document outlining Federal leasing and Outer Continental Shelf energy production goals for 1985, 1990, and 1995.

After considering comments and information received, the Secretary prepares a draft proposed leasing program, a copy of which is sent to the Governors of affected States. The Secretary is required to respond in writing to any comments made by Governors on the draft proposed program, if they are received at least 15 days before Federal Register publication of the proposed program. The draft for the current program was sent to Governors on March 9, 1979. A series of public meetings was also held to solicit comments on the draft proposed program. These took place in each of the leasing regions during March and April 1979. On April 27, 1979, a notice was published in the Federal Register, vol. 44, no. 83, requesting further comment on the draft proposed program and alternatives to it and announcing that an environmental impact statement (EIS) would be prepared on the proposed program.

The proposed program was submitted to Congress on June 18, 1979, and published in the Federal Register, vol. 44, no. 142, June 23, 1979. The Federal Register notice also requested comments for inclusion in the EIS. The proposed program was sent to the Governors of affected States on June 25, 1979, along with the Secretary's response to comments made by the Governors on the draft proposed program, and to the Attorney General on June 29, 1979. Comments and recommendations from the Congress, Governors, Attorney General, and the public were to be submitted within 90 days.

The final EIS on the proposed lease sale schedule for 1980-85 was published by the Bureau of Land Management in January 1980. It presents a description of the environments affected by the proposed schedule, the environmental consequences of implementation of the schedule, and alternatives to the schedule and their impacts.

A final proposed leasing program, along with any comments received, is submitted to the President and the Congress at least 60 days prior to its approval by the Secretary.

the 5-year OCS oil and gas leasing program. Prior to the current schedule, several other schedules were in effect. These were dated August 1970 (covering the period from 1970-73), May 1971 (1971-75), July 1973 (1973-78), November 1974 (1974-78), June 1975 (1974-78), January 1977 (1976-80), May 1977 (1976-78), August 1977 (1977-81), and June 1980 (1980-85).

Revisions to the OCS oil and gas leasing program are currently under way to streamline lease sale preparation procedures, to offer areas of high potential earlier, and to offer more acreage for leasing.

Pursuant to section 18 of the OCS Lands Act, as amended, the Secretary of the Interior will annually review and periodically revise

The draft proposed new 5-year leasing schedule was sent to the Governors of affected coastal States for their comments on

**FIGURE 3.**—Current 5-year OCS oil and gas leasing schedule. (U.S. Department of the Interior, - 1980, Five-year OCS leasing schedule approved: Washington, D.C., news release, June 18, 5 p.)

April 13, 1981. A notice was published in the Federal Register, vol. 46, no. 74, April 17, 1981, requesting public comments on proposed changes in the offshore leasing program. The comment period was extended 15 days, from May 11, 1981, to May 26, 1981. The notice for this extension appeared in the Federal Register, vol. 46, no. 87, May 6, 1981.

A draft supplement to the final environmental statement, proposed 5-year OCS oil and gas lease sale schedule was made available to the public on June 10, 1981. Notice of the availability was published in the Federal Register, vol. 46, no. 111, June 10, 1981. The proposed revised schedule covers the period January 1982 through December 1986 and consists of 42 oil and gas lease sales in 18 OCS areas. A series of public hearings were held July 21-24, 1981, with comments due by August 10, 1981. Information pertinent to the hearings was published in the Federal Register, vol. 46, no. 121, June 24, 1981.

A proposed 5-year OCS oil and gas leasing program for 1982 through 1986 was an-

nounced on July 15, 1981, in a news release issued by the Office of the Secretary of the Department of the Interior. The proposed program was submitted to Congress, the Attorney General, and Governors of affected coastal States on July 24, 1981. The proposed program was published in the Federal Register, vol. 46, no. 147, July 31, 1981. Written comments on the proposed program are due October 22, 1981.

A final schedule is expected to be approved late this year or early in 1982. Until the final schedule is approved, all lease sale dates noted in this index are based on the June 1980 final 5-year oil and gas leasing schedule. However, pre-sale steps for lease sales under way may be changed to reflect streamlining and may not match those shown on the 1980 schedule. The proposed 5-year OCS oil and gas leasing schedule is shown in figure 4. Pending its approval, the next edition of the Pacific Index will incorporate any changes resulting from the streamlining of lease sale preparation procedures and the earlier offering of some areas.

**U.S. DEPARTMENT OF THE INTERIOR**

JULY 1981

C - Call for Information  
D - Information Due  
A - Area Identification  
E - NEPA Document  
H - Public Hearing

F - NEPA Document  
P - Proposed Notice of Sale  
G - Governors' Comments Due  
R - DOE Review  
N - Notice of Sale  
S - Sale

**FIGURE 4.**—Proposed 5-year OCS oil and gas leasing schedule. (U.S. Department of the Interior, 1981, Proposed five-year offshore leasing program announced: Washington, D.C., news release, July 15, 7 p.)

## 2. Lease Sale History

### CONTINENTAL OFFSHORE STRATIGRAPHIC TEST (COST) WELLS

Prior to an Outer Continental Shelf (OCS) lease sale, Continental Offshore Stratigraphic Test (COST) wells may be drilled by groups of oil companies in an area adjacent to the blocks proposed for leasing but intentionally away from any potential petroleum-bearing features. The geological and engineering data obtained is evaluated by the participating oil companies and the U.S. Geological Survey (USGS) to determine the hydrocarbon potential of the area and any possible drilling problems.

To date two COST wells have been completed in the Pacific OCS area. The public disclosure provision of the regulations on geological and geophysical explorations of the OCS (30 CFR 251.14) specifies that geological

data from deep stratigraphic tests, including analyzed and interpreted information, shall be released 60 days after the issuance of the first Federal lease within 50 nautical miles (92.6 km) of the test site, or 5 years after the well completion if no lease is issued. This stipulation has been included in the stipulations attached to the permits for COST well operations. A brief history of the Pacific OCS area COST wells is presented in table 1, along with reference to U.S. Geological Survey open-file reports that contain more detailed information on the wells.

### LEASE SALES

There have been seven oil and gas lease sales in the Pacific Region. Six of these lease sales were held prior to the effective date of

**TABLE 1.—COST wells in the Pacific OCS area**

Well	Block	Spud date	Completion date	Maximum depth feet (m)	Operator	USGS Open-File Reports <sup>1</sup>
OCS-CAL 75-70, no. 1	7N-54W (projected)	8/23/75	12/2/75	10,920 (3,325 m)	Exploration Services	76-232
OCS-CAL 78-164, no. 1	N796 E28	10/7/78	12/18/78	10,571 (3,222 m)	Exploration Services	79-1218

SOURCE: USGS.

<sup>1</sup> Available at cost from Open-File Services Section, Branch of Distribution, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 80225, or from the National Geophysical and Solar-Terrestrial Data Center, NOAA, Code B621, 325 Broadway, Boulder, CO 80303.

current regulations, and formal documents for public review are not available for all the leasing steps detailed in figures 1 and 2.

The proposed 5-year oil and gas leasing schedule, presented in figure 4, lists five proposed sales for the Pacific Region. Proposed sales scheduled off Southern California include Lease Sale 68 (April 1982), Lease Sale 80 (January 1984), and Lease Sale 95 (January 1986). Proposed sales scheduled off Northern California are Lease Sale 73 (January 1983) and Lease Sale 95 (January 1986).

The leasing history off the Pacific States is presented in table 2, and a brief history of events for each of the lease sales held or proposed in the Pacific Region is shown in figure 5. Figures 6 and 7 show the locations of past sales and COST wells, and figure 8 shows the location of a proposed sale and COST well. Since all six of these lease sales were held prior to the effective date of current regulations, formal documents for public review are not available for all the leasing steps detailed in figures 1 and 2.

## 1963 LEASE SALE

The first oil and gas lease sale in the Pacific Region was held on May 14, 1963. The call for nominations covered 4 million acres (1.6 million hectares) off the coast of Central and Northern California. Of the 174 blocks nominated, 129 were offered for lease. These were grouped in four offshore areas adjacent to Eureka (Eel River Basin), Point Arena (northern Bodega Basin), San Francisco (southern Bodega Basin and Santa Cruz Basin), and Morro Bay (Santa Maria Basin).

Fifty-seven tracts were leased and 20 exploratory wells were drilled. However, no commercial discoveries were made on these tracts, and all the leases were relinquished between 1965 and 1967.

Because the 1963 Lease Sale was held prior to current regulations, steps 1, 3, 4, 5, 7, and 8 of the leasing process were not required;

therefore, no documents exist for those steps. In addition, no comments were received in response to the call for nominations. Since no development and production activities occurred on 1963 tracts, no documents were submitted for steps 10 through 13.

## 1964 LEASE SALE

The only lease sale to involve the Washington and Oregon OCS was held on October 1, 1964. Six companies nominated approximately 650 blocks. Of the 196 blocks offered for lease, 101 were leased. About three-fourths of the area leased was off the Oregon coast. Twelve exploratory wells were drilled on 10 tracts, but no commercial discoveries were made. All of the leases have been relinquished, and no further lease sales are currently scheduled for the Washington and Oregon OCS.

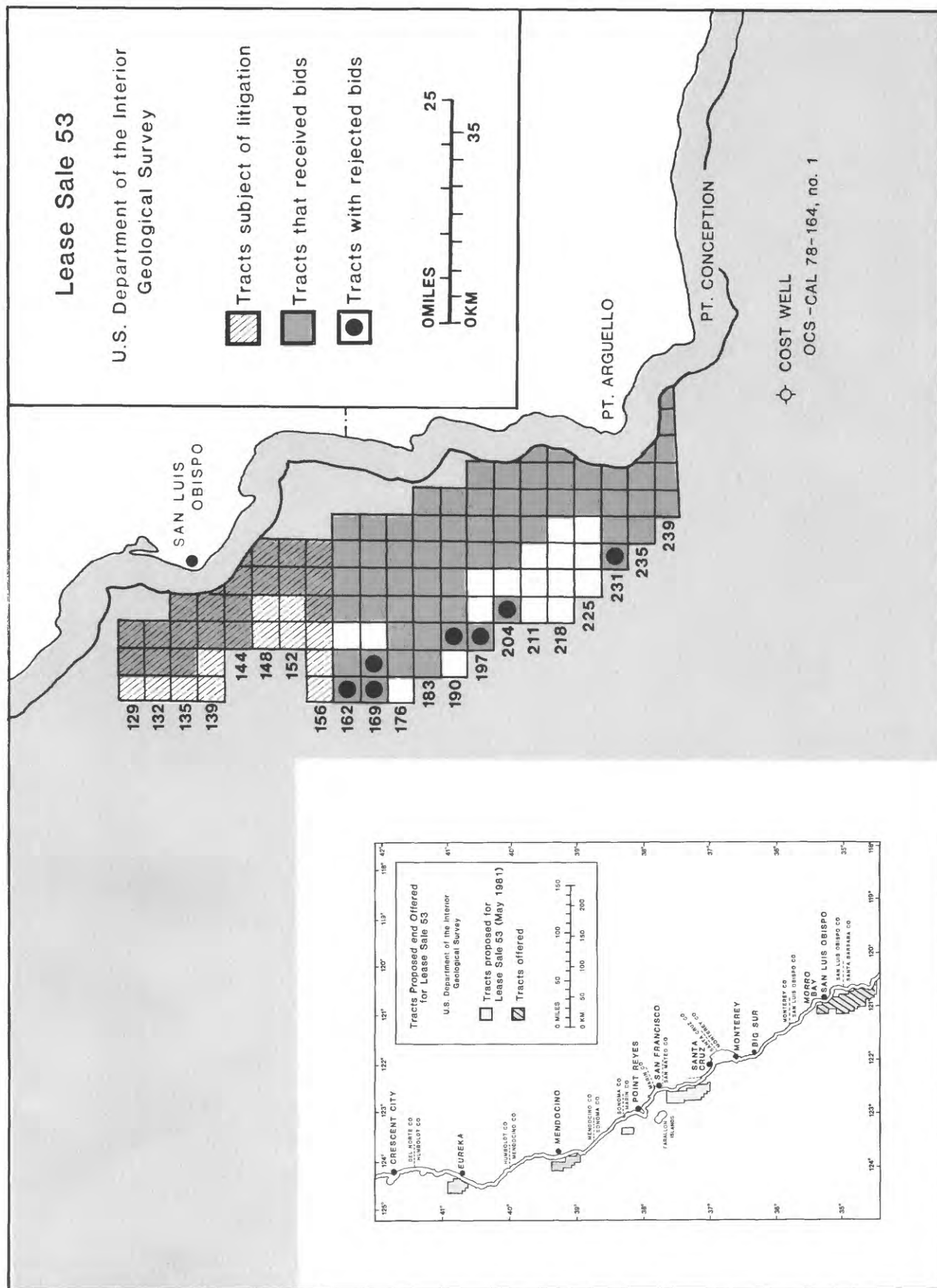
Because this lease sale predated current regulations, no documents exist under steps 1, 3, 4, 5, 7, and 8. In addition, no comments were received in response to the call for nominations. Since no development and production activities occurred on 1964 blocks, no documents were submitted for steps 10 through 13.

## 1966 LEASE SALE

The 1966 Lease Sale involved a single block in the Santa Barbara Channel. It was held on December 15, 1966. This Federal block was leased to protect it from drainage by adjacent State wells in the Carpinteria Offshore Field. Six exploratory wells were drilled in 1967. The block is currently in production and is the site of two platforms, Hogan and Houchin, erected by Phillips Petroleum Company. A total of 92 development wells have been drilled from these platforms, 47 of which are currently producing oil. Production from the two platforms peaked in 1969







**FIGURE 7.**—Tracts proposed, offered, and receiving bids in Lease Sale 53. (Adapted from Kolasinski, 1981, Pacific Index (January 1962 - October 1980): prepared for the Outer Continental Shelf Oil and Gas Information Program by Rogers, Golden & Halpern, USGS Open-File Report 80-1201, p. 110.)



**TABLE 2.—Leasing history off the Pacific States**

Sale Date (Sale Number) <sup>a</sup>	Area	Tracts Offered	Tracts Leased
5/63	Eureka, Point Arena San Francisco, Morro Bay	129	57
10/64	Oregon and Washington	196	101
10/66	Santa Barbara Channel	1	1
2/68	Santa Barbara Channel	110	71
12/75 (Lease Sale 35)	Offshore Ventura, Los Angeles, and Orange Counties	231	56
6/79 (Lease Sale 48)	Point Conception to U.S. - Mexican Border	148	54
5/81 (Lease Sale 53, partial offering)	Central and Northern California	111	55 <sup>b</sup>
		—	—
Total Leases		926	395 <sup>c</sup>

Source: BLM.

<sup>a</sup>Lease sales prior to 1975 in the Pacific OCS Region were not assigned sale numbers.<sup>b</sup>Final determination or acceptance of 19 bids is pending outcome of litigation.<sup>c</sup>One hundred and fifty-one leases are currently active.

and has been continuous since 1968, except for the period from February to April 1969. At that time, the Secretary of the Interior ordered that all drilling and production operations in the Santa Barbara Channel be halted, following a major oil spill in January 1969 at the Dos Cuadras Field.

Since the 1966 Lease Sale involved a single block, no call for nominations and comments was issued. Also, because the sale predated the current leasing process, no documents exist for steps 1, 3, 4, 5, 7, 8, 10, and 11. The records concerning the permitting of a pipeline from Platform Hogan to shore no longer exist. The pipeline from Platform Houchin to Platform Hogan was covered under lease operations and did not require a permit.

## 1968 LEASE SALE

The 1968 Lease Sale was the first full-scale oil and gas lease sale off the Southern California coast. It was held on February 6, 1968. One hundred ten blocks in the Santa Barbara Channel were offered, and 71 of these were leased as a result of the sale, 34 of which are still active. In some cases, companies holding leases off Southern California have consolidated their operations on those leases through unitization, a cooperative agreement between two or more lease holders that allows one company to be the operator for exploration, development, and/or production on all affected leases. The advantages of exploring and/or developing an area as a unit are that

unnecessary wells and duplicate facilities may be avoided and the ultimate recovery of hydrocarbons may be maximized. Four active units in the Santa Barbara Channel are composed of blocks leased in 1968: the Santa Rosa, Santa Clara, Santa Ynez, and Pitas Point Units. Additional development activities are also occurring on leases that are not unitized. These producing non-unitized leases are on the Dos Cuadras and Carpinteria Offshore Fields.

As of June 1981, 126 exploratory wells have been drilled on blocks leased in 1968. A total of 247 development wells have been drilled from seven production platforms: Exxon's Hondo (Santa Ynez Unit), Chevron's Grace (Santa Clara Unit), Sun Oil's Hillhouse (Dos Cuadras Field), and Henry (Carpinteria Offshore Field), and Union's Platforms A, B, and C (Dos Cuadras Field). Currently 176 wells are producing. Plans have been approved for additional platforms on blocks in the Santa Clara Unit (Platform Gilda) and Hueneme Offshore Field (Platform Gina). A plan has also been submitted for a block in the Pitas Point Unit (Platform Habitat).

Union's Platform A, in the Dos Cuadras Field 6 miles (9.7 km) offshore from the town of Santa Barbara, was the site of a blowout on January 28, 1969. This resulted in a spill of an estimated 77,000 barrels (12,235 m<sup>3</sup>) of oil. On February 7, 1969, then Secretary of the Interior Hickel ordered a halt to drilling and production operations on Federal leases in the Santa Barbara Channel. The suspension was lifted on April 1, 1969, except for one lease which was cleared to resume operations on July 3, 1969.

In April 1981, production began in the Hondo offshore field (Santa Ynez Unit) in the Santa Barbara Channel after a 12-year delay caused by litigation involving the processing and transport of oil and gas that might be produced from the field. An agreement was finally reached through compromise, and Exxon agreed to comply with additional, more stringent environmental safeguards required by Federal, State, and local agencies.

Because the 1968 Lease Sale was held prior to current regulations, no documents

exist under steps 1, 4, and 5. Exploration and development and production plans, in their present form, and environmental assessments were not required prior to 1978. Therefore, plans for early exploratory and development activities do not contain all the information required by current regulations, and environmental assessments do not exist for these early activities. These documents are available, however, for more recent activities.

### **LEASE SALE 35 (1975)**

Lease Sale 35 originally appeared on the 1973 OCS leasing schedule with an anticipated sale date of September 1974. However, Lease Sale 35 was the first sale to be held in the Pacific after the major oil spill off Southern California in 1969, and it was delayed due to environmental concerns. The actual sale date was December 11, 1975.

Of the 231 blocks offered off Southern California, 56 were leased. Currently 7 of the 56 leases resulting from Lease Sale 35 are still held. As of June 30, 1981, 40 exploratory wells have been drilled. Two platforms, Ellen (drilling) and Elly (processing), were set in 1980 in the Beta field in the San Petro Bay. Production began in January 1981. Twelve development wells have been drilled, and seven are producing.

### **LEASE SALE 48 (1979)**

Lease Sale 48 first appeared on the November 1974 OCS leasing schedule with an anticipated sale date of May 1977. The call area included blocks from Point Conception to the Mexican border (approximately at lat 32 degrees N.). A great deal of concern was expressed by the public and State and Federal agencies prior to the sale. The issues raised during the comment period on the call for nominations and comments, at tract selection meetings and public hearings, and throughout the environmental impact statement (EIS) process resulted in the deletion of 69 blocks and the inclusion of a number of lease stipulations. During the preparation of the draft

EIS, the Secretary of the Interior announced a new leasing schedule for 1979-81, on which Lease Sale 48 was rescheduled for June 1979.

Lease Sale 48 was held on June 29, 1979. It was the first Pacific sale following the enactment of current regulations regarding steps in the leasing process. Therefore, documents listed for Lease Sale 48 conform to the descriptions presented in chapter 3.

Of the 148 blocks offered for lease, 54 were actually leased, and all are still active. As of June 30, 1981, 6 exploratory wells have been drilled.

### LEASE SALE 53 (1981)

Lease Sale 53 was held on May 28, 1981. A final pre-sale environmental impact statement was released in September 1980. The 242 blocks considered in the EIS lie off Central and Northern California. This area coincides with a portion of blocks offered and leased in the 1963 Lease Sale. In October 1980, then Secretary Andrus announced that only 115 blocks in Santa Maria Basin would be offered in Lease Sale 53. In February 1981, Secretary Watt issued a revised proposed notice of sale that included 127 blocks previously proposed for deletion in Northern California. These blocks were in the Eel River, Point Arena, Bodega Bay, and Santa Cruz offshore areas. The Governors of the affected States had 60 days to comment on this proposed notice.

The decision to include the previously deleted tracts for Lease Sale 53 was strongly protested by California State and local officials, as well as by special interest groups and individuals. Issues addressed included concern that risks to the environment and other resources outweighed the energy potential of the areas. A request was also made to delete 34 of the northernmost tracts in the Santa Maria Basin from consideration for the sale.

In early April 1981, the Secretary announced that a decision regarding the four disputed basins would be deferred but that Lease Sale 53 would otherwise be held on schedule.

On April 27, 1981, it was announced that 111 blocks in the Santa Maria Basin would be offered in OCS Sale 53 to be held May 28, 1981. The actual number of tracts offered was 111 after 8 partial tracts were formed into 4 tracts. A suit was filed on April 29, 1981, in the U.S. District Court in Los Angeles by Governor Edmund Brown, Jr., of California and five State agencies seeking an injunction against sale of 32 of the tracts. A similar suit was filed by a coalition of environmental groups.

A temporary injunction was issued on May 27, 1981. The sale was held May 28, 1981, and the Bureau of Land Management was enjoined from awarding leases on bids received on 21 of the contested tracts in the northern part of the basin pending determination of the temporary injunction. Fifty-four leases were issued with an effective date of July 1, 1981. A modification of the preliminary injunction allowed the BLM to take action on two of the contested tracts receiving bids, of which one bid was accepted. A final decision on the remainder of the contested tracts will be decided by a higher court.

On August 7, 1981, Secretary Watt announced that no recommendation would be made regarding the four basins off Northern California, which would in effect withdraw the Eel River, Point Arena, Bodega, and Santa Cruz Basins from Lease Sale 53.

### LEASE SALE 68 (1982)

Lease Sale 68 appears on the proposed leasing schedule for 1982-86 with an anticipated sale date of April 1982. If held, it will be the fifth Pacific lease sale to involve Southern California blocks. The tentative tract selection for Lease Sale 68 was completed in May 1980, and the draft EIS in May 1981. Therefore, information is available for this sale only through step 4.

### LEASE SALE 73 (1983)

The proposed 1982-86 leasing schedule has a tentative sale date of January 1983 for

Lease Sale 73. The resource reports for this sale were requested July 31, 1980. The call for nominations and comments was issued November 28, 1980, and the responses are included in this document.

#### **LEASE SALE 80 (1984)**

Lease Sale 80 appears on the proposed 1982-86 leasing schedule with an anticipated sale date of January 1984. The call for nominations and comments is tentatively scheduled for May 1982.

#### **LEASE SALE 91 (1985)**

Lease Sale 91 is tentatively scheduled for March 1985 on the proposed 1982-86 leas-

ing schedule with the call for nominations and comments to be issued in July 1983.

#### **LEASE SALE 95 (1986)**

A tentative sale date of January 1986 has been scheduled for Lease Sale 95 on the proposed 1982-86 schedule, and the call for nominations and comments is scheduled for May 1984.

### 3. Lease Sale Process

#### SALE-SPECIFIC DOCUMENTS AND DATA

This chapter lists documents and information for the period of November 1980 through June 1981 relevant to each of the six oil and gas lease sales held for the Pacific Outer Continental Shelf (OCS) between May 1963 and May 1981. Existing pre-sale documents for Lease Sales 68, 73, and 80, scheduled to be held in June 1982, May 1983, and June 1984, respectively, are also listed.

Regulations in effect prior to the OCS Lands Act Amendments of 1978 required fewer documents, and those required were of a less detailed nature than those called for by current regulations. The following changes in regulations are particularly important in accounting for differences in the documentation presented in this chapter.

- Resource reports (43 CFR 3312) were not required for the first four Pacific lease sales. For subsequent lease sales, these reports have become progressively more detailed and specific, and they have been requested for an increasing number of Federal and State agencies.
- State notification of tract selection (43 CFR 3313.2) and the publication of the proposed notice of sales (43 CFR 3315.1) were not required for lease sales prior to Sale 48.
- Secretarial issue documents (originally termed program decision option documents) were not required for lease sales prior to Sale 35.

- Exploration plans and development and production plans (30 CFR 250.34-1 and 250.34-2) have become increasingly detailed. Plans submitted prior to 1979 may not contain all the information listed in chapter 3, and they are not always accompanied by environmental reports. In addition, regulations requiring that plans be submitted for all exploration or development and production activities were not made final until December 1979.
- Compliance with the National Environmental Policy Act of 1969 (NEPA) has resulted in the requirements for a pre-sale environmental impact statement (EIS) and environmental assessments on exploration and development and production plans (30 CFR 250.34-4).
- Executive Order No. 12044, issued in March 1978, has resulted in certain revisions in the language of pertinent Federal regulations. This order directed Federal agencies to make regulations as simple and clear as possible.
- Before Lease Sale 35, numbers were not assigned to Pacific lease sales.

It should be noted that only responses from Federal, State, and local government units are listed under "Step 1. Resource Reports" and "Step 2. Call for Nominations and Comments." Responses from special interest groups and individuals are not listed, but they

are available at the regional OCS office indicated. It should also be noted that a single respondent frequently submits information concerning more than one topic.

Copies of available documents may be obtained for a fee by contacting the appropriate office. The addresses and telephone numbers of these offices are listed on the inside front cover of this index.

## **STEP 1. RESOURCE REPORTS**

### **43 CFR 3312.1**

Approximately 6 months prior to the call for nominations and comments, the Director of the Bureau of Land Management (BLM), through the appropriate regional OCS office, requests resource reports from pertinent Federal agencies. Reports are also frequently requested from State agencies. The geographical area to which the resource reports pertain is quite broad; it is based on the proposed lease sale areas identified in the OCS leasing schedule and is developed through consultation among personnel in the regional BLM and U.S. Geological Survey (USGS) offices.

Resource reports are used to identify significant issues that may arise during the leasing process. For example, resource reports are used to assist the BLM in determining what additional information needs to be developed. In addition, the reports provide information that may be useful in defining the call area and in preparing the pre-lease-sale environmental impact statement.

In response to the request for resource reports, the USGS submits a summary report describing the geology and potential mineral resources of the area under consideration. This summary report also contains a preliminary assessment of geologic hazards. The analysis and refinement of hazards and mineral resource data continues throughout the OCS leasing process. Other agency reports discuss the potential effects of mineral operations on the resources and uses of the natural and socioeconomic environment. They describe such factors as biological and geological makeup, mineral occurrence, oceanographic

factors, navigational and military uses, economic impact, sport and commercial fishing, recreational uses, coastal zone management, and environmental, sociological, and cultural values.

Information pertaining to resource reports for Lease Sales 35, 48, 53, and proposed Lease Sales 68 and 73 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201. No resource report data are included in this edition.

## **STEP 2. CALL FOR NOMINATIONS AND COMMENTS**

### **43 CFR 3313.1-2**

After reviewing the resource reports, the Bureau of Land Management and the U.S. Geological Survey define the geographical area to be covered in the call for nominations and comments. The call covers large contiguous areas extending over several million acres but is normally less extensive than the area to which the resource reports pertained. The purpose of the call for nominations and comments is to gather information regarding industry and public interest in developing particular blocks within the call area and to identify further information needs. It does not, however, commit the Department of the Interior to a particular lease sale. The call includes a request for nominations of specific blocks and a request for comments on specific blocks that should receive special concern and analysis. In addition, it may include a request for information concerning geological conditions, archeological or cultural sites, multiple uses of the proposed leasing area, and other socioeconomic, biological, and environmental information.

Upon approval by the Secretary of the Interior, the Director of the BLM issues the official call for nominations and comments, which is published in the Federal Register. A listing of protraction diagrams for the call area is included in the Federal Register when the call is issued. These diagrams are the official lease maps prepared by the BLM. Copies of the protraction diagrams may be

obtained for a fee from the regional BLM OCS office. All interested parties, including Federal and State agencies, local governments, industry, special interest groups, and the public, may respond to the call. Nominations and comments are sent to the appropriate regional BLM office, with copies to the Directors of the BLM and the USGS in Washington and to the Regional Conservation Manager of the USGS. Respondents are allowed at least 60 days to submit nominations and comments.

Comments are available for public examination at the appropriate regional BLM office. However, specific block nominations are considered to be proprietary. Information concerning nominations is available to the public in summary form only through news releases, which list industries making nominations and, through accompanying maps, show blocks with high, medium, and low industry interest.

The previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201, contains information and data on the call for nominations and comments for the 1963, 1964, 1968 Lease Sales; Lease Sales 35, 48, 53; and proposed Lease Sale 68.

## LEASE SALE 73 (1983)

The call for nominations and comments was issued November 28, 1980. The area included 4,467 blocks totaling approximately 24,137,673 acres (9.8 million hectares) and extended as much as 200 miles (322 km) seaward from the 3-mile (5.56 km) State waters boundary in water depths ranging to 12,000 feet (3,658 m). The U.S. Geological Survey estimated that undiscovered resources could range from 3.5 to 10.9 billion barrels (0.56 - 18.9 billion m<sup>3</sup>) of oil and 5.4 to 15.0 trillion cubic feet (0.15 - 0.42 trillion m<sup>3</sup>) of natural gas.

Certain areas were excluded from the call: (1) Dana Point - San Diego tracts that were omitted from the call for proposed Lease Sale 68; (2) the Santa Monica Bay tracts and Federal Ecological Preserve tracts that were

not selected for environmental analysis in proposed Lease Sale 68; (3) the Channel Islands National Marine Sanctuary; (4) tracts in the Bodega, Santa Cruz, Point Arena, and Eel River Basins that were deleted from proposed Lease Sale 53; (4) tracts within 3 miles (4.6 km) of State waters extending from Big Sur to the Santa Cruz Basin tracts excluded from proposed Lease Sale 53; and (5) tracts in the vicinity of the Point Reyes Wilderness Area that are removed from oil and gas activity by the OCS Lands Act Amendments of 1978.

Fifteen companies nominated approximately 3,000 blocks totaling approximately 15.1 million acres (6.1 million hectares). Over 1,500 comments were received from Federal, State, and local agencies, as well as from special interest groups and private individuals.

Areas receiving negative comments included OCS tracts off the Counties of Del Norte, Humboldt, Mendocino, San Mateo, Santa Cruz, Monterey, and San Luis Obispo, as well as tracts within the Point Reyes-Farallon Islands Marine Sanctuary, the Santa Barbara Ecological Preserve, and the Precautionary Area near Los Angeles and Long Beach Harbors. Concerns addressed included (1) air quality degradation; (2) geohazards; (3) vessel traffic conflicts; and (4) adverse impacts on fisheries, sensitive biological habitats, scenic and recreational resources, and local economies.

All industry comments urged that excluded areas be reinstated for the sale because of their high energy potential.

## Federal Register Call

Vol. 45, no. 231, p. 79401-79406, November 28, 1980.

## News Release

Proposed OCS Sale No. 73 Offshore California  
Call for Nominations and Comments Issued, November  
28, 1980. Available from BLM.

## Comments from Government Agencies

U.S. Air Force, Vandenberg Air Force Base	12/17/80
Mendocino County, Coastal Planning Office	1/7/81
City of Trinidad	1/13/81
San Luis Obispo County, Area Council of Governments	1/15/81
Humboldt County	1/16/81
City of Pismo Beach	1/19/81
California Coastal Commission, North Coast Region	1/21/81
Marin County, Board of Supervisors	1/21/81
California Coastal Commission, Central Coast Region	1/22/81
Fort Bragg City Council	1/26/81
U.S. Navy, Port Mugu	1/27/81
Mayor, City of San Francisco	1/28/81
Mendocino County	1/28/81
Monterey Bay Unified Air Pollution Control District	1/28/81
San Mateo County, Department of Environmental Management	1/28/81
Sonoma County, Board of Supervisors	1/28/81
California Department of Fish and Game	1/29/81
Santa Cruz County	1/29/81
U.S. Coast Guard	1/29/81
Association of Bay Area Governments	1/30/81
Del Norte County	2/2/81
Environmental Protection Agency	2/2/81
Office of Coastal Zone Management	2/4/81

California Governor's Office, Office of Planning and Research	2/13/81
Association of Monterey Bay Area Governments	2/17/81
<hr/> Availability: BLM.	

## STEP 3. TENTATIVE TRACT SELECTION AND STATE NOTIFICATION

### 43 CFR 3314.1-2

After the call for nominations and comments is closed, a tentative selection of tracts is made for further analysis in an environmental impact statement and consideration for leasing. The Federal agencies with primary responsibility for tract selection are the Bureau of Land Management and the U.S. Geological Survey. The regional BLM and USGS offices evaluate the nominations and comments received in response to the call, the past leasing history of the area, all available environmental information, including geological, geophysical, and oceanographic data, socioeconomic considerations, multiple-use conflicts, and resource potential. The regional Fish and Wildlife Service office is required to make recommendations concerning biological resources. The members of the Regional Technical Working Group Committee may also make recommendations based on their knowledge of the call area. State and local agencies are strongly encouraged to participate in the tentative tract selection process at regional meetings.

The regional BLM and USGS offices prepare a report recommending tracts for leasing. This joint field report contains a list of tracts identified by block number on protraction diagrams, acreage, average water depths, and preliminary stipulations. The report is submitted to the Washington headquarters of the Bureau of Land Management and the U.S. Geological Survey for review. The Director of

the BLM, in consultation with the Director of the USGS, the Fish and Wildlife Service, other Federal agencies, and affected States, submits recommendations on tract selection to the Secretary of the Interior. Once the Secretary has approved the tentative tract selection, the Governors of affected States are notified, and a news release is issued.

Data on the tentative tract selection and State notification for the 1968 Lease Sale; Lease Sales 35, 48, 53; and proposed Lease Sale 68 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201. No tentative tract selection data are included in this edition.

#### **STEP 4. PRE-SALE ENVIRONMENTAL IMPACT STATEMENT**

40 CFR 1500  
43 CFR 3314.1

The preparation of an environmental impact statement is required by the National Environmental Policy Act of 1969 (42 U.S.C. 4321) for all major Federal actions significantly affecting the quality of the human environment. The Council on Environmental Quality regulations require that there be an early and open process for determining the scope of issues, alternatives, and impacts to be addressed by the EIS. All interested parties are invited to participate in the scoping process. A series of "scoping" meetings, open to all interested parties, are held by the regional BLM office. In addition, informal consultation among the regional BLM office, Federal, State, and local agencies, and special interest groups further identifies significant issues pertinent to the proposed lease sale.

Issues raised during the scoping process are discussed in the draft environmental impact statement (DEIS) prepared by the regional BLM office. The DEIS also describes

the existing environment, the proposed action, conditional resource estimates scenarios, and probable environmental impacts. Mitigating measures (such as lease stipulations), unavoidable adverse impacts, cumulative effects, and irreversible and irretrievable commitments of resources are analyzed, along with alternatives to the proposed action. The DEIS is published for review and comment. Public hearings are held to discuss the DEIS and to solicit comments. The locations and dates of these hearings and the availability of the DEIS are announced in a news release and a Federal Register notice.

After oral and written comments have been evaluated, a final EIS is prepared that incorporates new findings, substantive comments, recommendations, and any additional information acquired during the review period. The EIS is submitted to numerous Federal agencies and made available to the public for review. It is also submitted to the Secretary of the Interior to provide information necessary for making the tentative sale decision.

Information on pre-lease-sale environmental impact statements for Lease Sales 35, 48, and 53 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

#### **LEASE SALE 68 (1982)**

##### **Pre-Sale EIS**

Draft Environmental Impact Statement, Proposed 1982 Outer Continental Shelf Oil and Gas Lease Sale Offshore Southern California, OCS Sale No. 68, 1981, 2 vols. Available from BLM.

##### **Federal Register**

Vol. 46, no. 103, p. 28951-28952, May 29, 1981.

## News Release

Draft Environmental Impact Statement  
Available for Offshore Southern California OCS Sale  
No. 68, May 29, 1981. Available from BLM.

## STEP 5. SECRETARIAL ISSUE DOCUMENT

A tentative decision on whether to hold a lease sale or not is made by the Secretary of the Interior. To assist the Secretary in this regard, the Bureau of Land Management prepares a secretarial issue document (SID) after publication of the EIS. The SID is an internal document, not available for public examination, which presents and analyzes the leasing process, as well as the environmental impact statement for the proposed lease sale. Sale options, including bidding systems, mitigating measures, tract deletions, and sale delay or cancellation, are presented in a comparative format. The SID, completed approximately 60 days after the EIS, provides the Secretary with information necessary to make the final tract selection and to determine the conditions and terms for the proposed lease sale.

The previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201, contains information on the secretarial issue documents for Lease Sales 35 and 48.

## LEASE SALE 53 (1981)

### Secretarial Issue Document

Final Secretarial Issue Document, OCS Sale No. 53, Central and Northern California, October 1980, 77 p. and appendixes.

## STEP 6. SALE

43 CFR 3315.1-3, 3315.4

Following a tentative decision by the Secretary of the Interior to proceed with the lease sale, the Director of the Bureau of Land Management is required to fully evaluate potential adverse impacts on the human, marine, and coastal environments identified during the previous steps in the leasing process and to develop measures to mitigate them. These measures include proposed lease stipulations and conditions contained in the proposed notice of sale. In preparing these lease stipulations, the BLM obtains the advice of the U.S. Geological Survey, the Fish and Wildlife Service, and the National Park Service, as appropriate, at the regional and headquarters levels. Following the analysis of agency comments, the BLM submits a proposed notice of sale to the Secretary of the Interior for approval. The proposed notice of sale also includes a listing of tracts offered for lease, information on the sale procedures, and methods of bidding. Once approved, the proposed notice is sent to the Governors of affected States and published in the Federal Register.

A 60-day comment period follows the submission to the Governors of the proposed notice. In addition, the Governor of any affected State or through the Governor any affected local government, may submit recommendations to the Secretary of the Interior regarding the size, timing, or location of the proposed lease sale. The Secretary of the Interior is required to make a written reply to the Governor discussing the reasons for the determination to accept or reject the Governor's recommendations.

Following the analysis of the Governor's comments on the proposed notice of sale, a final notice is provided to the Secretary of the Department of Energy for a 30-day review of the lease terms and conditions. The Department has the authority to disapprove the

terms and conditions of a lease sale in order to ensure that the most efficient bidding system is used.

Following the 60-day comment period on the proposed notice of sale, the regional BLM office prepares a final notice of sale that contains a listing of the tracts to be offered for sale, the methods of bidding, lease stipulations, and all terms and conditions of the sale. The place and time at which sealed bids will be filed and opened are specified. The U.S. Geological Survey, the Fish and Wildlife Service, and the National Park Service, as appropriate, are given an opportunity to review and comment on the notice of sale. Upon approval by the Secretary of the Interior, the Director of the BLM publishes the notice in the Federal Register at least 30 days prior to the date on which bids will be opened. The notice of sale is accompanied by a notice identifying the reasons for the selection of the bidding systems and for designating tracts under each bidding system.

The opening of bids is for the purpose of publicly announcing and recording the bids received, and no bids are rejected or accepted at the sale. After the bid opening, the regional BLM office, together with the regional USGS office, conducts a review of the bids to determine whether they meet the OCS leasing objectives defined in the OCS Lands Act Amendments of 1978. Prior to the sale, the U.S. Geological Survey gathers, interprets, and analyzes geological, geophysical, engineering, and economic data for evaluation of tracts offered for lease. The U.S. Geological Survey then provides the Bureau of Land Management with technical information evaluating the potential mineral resource value of each tract. Technical and economic information is considered, along with any new environmental information, and the USGS Regional Conservation Manager and the BLM Regional Manager recommend whether particular leases should be issued. A BLM report is prepared on the results of the sale for the Secretary of the

Interior's consideration. Pertinent information is also sent to the Department of Justice Antitrust Division for a 30-day review. The Justice Department's recommendations are considered in the Secretary of the Interior's final decision on which bids will be accepted or rejected.

The final decision on a lease sale award or rejection is announced by a news release issued by the Department of the Interior. News releases may be examined at the appropriate regional BLM office.

For information on the 1963, 1964, 1968 Lease Sales and Lease Sales 35 and 48, refer to the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

## LEASE SALE 53 (1981)

### Federal Register Notice

Vol. 46, no. 80, p. 23674-23689, April 27, 1981.

### News Releases

Interior Secretary Watt Asks Governors to Comment on Proposal for Oil and Gas Leasing on Outer Continental Shelf Off California.	2/11/81
Central California Offshore Sale (OCS #53) Scheduled May 28.	4/27/81
Bids to Be Opened on All 115 Tracts in Santa Maria Basin.	5/28/81
Interior Lists Acceptable Bids Totalling \$2 Billion for OCS Sale #53 Offshore Central California.	6/8/81

Availability: BLM.

## STEP 7. EXPLORATION PLAN AND ENVIRONMENTAL REPORT

15 CFR 930

30 CFR 250.34-1, 250.34-3, 250.57

After the leases are issued by the Bureau of Land Management, for an initial term of 5 years, the U.S. Geological Survey is responsible for regulating and monitoring the operations on the OCS leases. Before exploratory drilling can begin on a leased tract, an exploration plan and an accompanying environmental report must be prepared by the lessee or operator and submitted for approval to the regional USGS office. The Bureau of Land Management, the Fish and Wildlife Service, the National Park Service, and the Governors of affected States review and make recommendations to the U.S. Geological Survey on all exploration plans.

Each exploration plan includes (1) the proposed type and sequence of exploration activities; (2) a description of drilling vessels, platforms, and other structures to be attached to the seabed, including safety and pollution prevention and control features; (3) the types of geophysical equipment to be used; (4) the approximate location of each proposed exploratory well; (5) an oil spill contingency plan that sets forth the procedures, personnel, and equipment that are to be used for preventing, reporting, and cleaning up spills of oil or waste material; and (6) other relevant geological and geophysical information.

The environmental report includes (1) a detailed description of onshore support and storage facilities; (2) the estimated number of people expected to be employed; (3) boat and

aircraft traffic patterns; (4) the quantity and composition of wastes and pollutants; (5) major supplies, services, and resources needed for implementation of the plan; and (6) potentially hazardous or environmentally sensitive areas, including archeological and cultural sites. An assessment of the direct effects on the onshore and offshore environments of implementing the exploration plan is also made. The environmental report is a document separate from the exploration plan; however, it accompanies the plan throughout the review process. The environmental report may be used by States in planning for onshore impacts.

The exploration plan and environmental report must be accompanied by a certificate of coastal zone consistency whenever the activities described would significantly affect land and water uses in the coastal zone of a State with an approved coastal zone management program. In those States, the exploration plan and environmental report must be submitted to the appropriate State coastal zone management agency for consistency concurrence. This review is distinct from that supplied by the Governors of affected States.

A single exploration plan and environmental report may pertain to more than one lease. In the tables below, which list the leases for which plans have been submitted, the spaces separate individual plans.

Information on other exploration plans and environmental reports for the 1968 Lease Sale and Lease Sales 35 and 48 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

**LEASE SALE 35 (1975)****Exploration Plans and Environmental Reports**

Unit/(Field)	Lease No. OCS-P	Block No.	Well No.	Operator	Submittal Date	Approval Date
none	0248 0251	38N 69W 37N 69W	2 1,2	Challenger	4/7/81	5/7/81

Availability: USGS.

**LEASE SALE 48 (1979)****Exploration Plans and Environmental Reports**

Unit/(Field)	Lease No. OCS-P	Block No.	Well No.	Operator	Submittal Date	Approval Date
none	0322	53N 85W	1	Conoco	12/10/80	1/12/81
none	0328 0333	52N 81W 51N 81W	1-3 1,2	Champlin	11/29/80	12/19/80
none	0334	51N 78W	1	Conoco	10/6/80	11/5/80
none	0335 0345 0355	51N 71W 50N 70W 49N 70W	1-5 1-4 1-4	Chevron	5/26/81	6/26/81
none	0348	49N 78W	1-4	Chevron	11/5/80	12/8/80
none	0349 0350 0351	49N 77W 49N 86W 49N 75W	1-3 1-4 1-3	Chevron	12/18/80	1/21/80

Availability: USGS.

## STEP 8. ENVIRONMENTAL ASSESSMENT FOR EXPLORATION

30 CFR 250.34-4

40 CFR 1500.4

Prior to the approval of an exploration plan, the Director of the U.S. Geological Survey, through the appropriate regional office, reviews the environmental impacts of activities proposed in the plan. The review gives particular attention to (1) areas of high ecological sensitivity; (2) hazardous natural bottom conditions; (3) the use of new and unusual technology; and (4) seismic risks. The end product of this review is an environmental assessment (EA) document.

If, in the opinion of the Director, the EA indicates that approval of the plan will not result in significant effects on the quality of the human environment, a finding of no significant impact (FONSI) is prepared. The FONSI briefly presents the basis for that finding and includes a summary or copy of the environmental assessment. Notice of the availability of the EA's and FONSI's prepared for each OCS region is published every 3 months in the Federal Register.

If it is determined that approval of the plan would constitute a major Federal action significantly affecting the quality of the human environment, an environmental impact statement must be prepared. At this time, consideration is also given to significant adverse impacts upon the marine, coastal, or human environments resulting from the construction of new onshore facilities. Cumulative and previously unforeseen impacts are also considered. On the basis of the environmental assessment, the environmental impact statement findings, and the technical review by the U.S. Geological Survey, the exploration plan will be approved, rejected, or modified.

A single environmental assessment or EIS may pertain to more than one lease. In the tables below, which list the leases for which these reports have been submitted, the spaces separate individual reports.

A listing of other EA's/EIS's for the 1968 Lease Sale and Lease Sales 35 and 48 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

### LEASE SALE 35 (1975)

#### Environmental Assessments for Exploration

Unit/(Field)	Lease No. OCS-P	Block No.	Well No.	Operator	Publication Date
none	0248 0251	38N 69W 37N 69W	2 1,2	Challenger	5/7/81

Availability: USGS.

**LEASE SALE 48 (1979)****Environmental Assessments for Exploration**

Unit/(Field)	Lease No. OCS-P	Block No.	Well No.	Operator	Publication Date
none	0322	53N 85W	1	Conoco	1/12/81
none	0328	52N 81W	1-3	Champlin	12/19/80
	0333	51N 81W	1,2		
none	0334	51N 78W	1	Conoco	11/5/80
none	0335	51N 71W	1-5	Chevron	6/26/81
	0345	50N 70W	1-4		
	0355	49N 70W	1-4		
none	0348	49N 78W	1-4	Chevron	12/8/80
none	0349	49N 77W	1-3	Chevron	1/21/81
	0350	49N 86W	1-4		
	0351	49N 75W	1-3		

Availability: USGS.

**STEP 9. EXPLORATION DRILLING**

## 30 CFR 250.36

An application for permit to drill (APD) is filed with the regional USGS office by the lessee or operator either along with or after approval of the exploration plan. The APD includes specific information on the location and depth of wells. The U.S. Geological Survey prepares a detailed hazard analysis based on information submitted by the lessee or operator. An APD approved by the supervisors of the oil and gas offices of the U.S. Geological Survey in the region constitutes a drilling permit. An additional APD must be filed and approved each time a well is deepened, reworked, redrilled, or plugged.

Other Federal permits required prior to exploratory drilling include permits for aids to navigation from the U.S. Coast Guard, navigation permits from the U.S. Army Corps of Engineers, and National Pollutant Discharge Elimination System (NPDES) permits from the Environmental Protection Agency.

A listing of other exploration drilling permits for the 1968 Lease Sale and Lease Sales 35 and 48 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

## 1968 LEASE SALE

## Exploration Drilling Permits

Unit/(Field)	Lease No. OCS-P	Block No.	Well No.	Operator	Submittal Date	Approval Date
none	0238	50N 69W	2	Exxon	1/12/81	2/24/81
Availability: USGS.						

## LEASE SALE 35 (1975)

## Exploration Drilling Permits

Unit/(Field)	Lease No. OCS-P	Block No.	Well No.	Operator	Submittal Date	Approval Date
none	0248 *	38N 69W	1	Challenger	3/7/80	10/15/80
Availability: USGS.						

\* This permit was inadvertently omitted from the previous index.

## LEASE SALE 48 (1979)

## Exploration Drilling Permits

Unit/(Field)	Lease No. OCS-P	Block No.	Well No.	Operator	Submittal Date	Approval Date
none	0316	55N 84W	1	Chevron	12/4/79	11/20/80
none	0317	55N 83W	1	Chevron	4/23/80	11/24/80
none	0318	55N 82W	1	Chevron	2/11/80	11/24/80
none	0324	53N 83W	1	Chevron	3/12/80	4/9/81

Availability: USGS.

## **STEP 10. DEVELOPMENT AND PRODUCTION PLAN AND ENVIRONMENTAL REPORT**

30 CFR 250.34-2

Before development and production activities can begin, a development and production plan and an accompanying environmental report must be prepared by the lessee or operator and submitted for approval to the regional USGS office. The Bureau of Land Management, the Fish and Wildlife Service, the National Park Service, and the Governors of affected States review and make recommendations to the U.S. Geological Survey on all development and production plans.

The development and production plan includes (1) the specific work to be performed; (2) a description of drilling vessels, platforms, pipelines, or other facilities and operations located on the OCS, including safety and pollution prevention and control features and labor, material, and energy requirements; (3) the well locations; (4) current interpretations of all available relevant geological and geophysical data, which may include proprietary data; (5) a description of environmental safeguards and safety standards; and (6) a time schedule of development and production activities. The environmental report includes a description of (1) the location, type, and size of offshore and onshore operations; (2) the requirements for land, labor, material, and

energy for the operations; (3) a schedule of the onshore and nearshore development activities; (4) any environmental monitoring systems; (5) pollution contingency plans; and (6) the biological, physical, and human environment. An assessment of the direct effects of implementation of the plan on the onshore and offshore environments, as well as a discussion of alternatives, is also included. The environmental report is a document separate from the plan; however, it accompanies the plan throughout the review process. The environmental report may be used by States in planning for onshore impacts.

The development and production plan and environmental report must be accompanied by a certificate of coastal zone consistency whenever the activities described would significantly affect land and water uses in the coastal zone of a State with an approved coastal zone management program. In these States, the development and production plan and environmental report must be submitted to the appropriate State coastal zone management agency for consistency concurrence. This review is distinct from that supplied by the Governors of affected States.

A listing of other development and production plans for the 1968 Lease Sale and a listing for Lease Sale 35 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

## 1968 LEASE SALE

### Development and Production Plans

Unit/(Field)	Lease No. OCS-P	Block No.	Platform	Operator	Submittal Date	Approval Date
(Hueneme Offshore)	0202	46N 58W	Gina	Union	5/7/79	12/5/80
Santa Clara	0216	48N 61W	Gilda	Union	12/12/79	12/19/80

Availability: USGS.

### STEP 11. ENVIRONMENTAL ASSESSMENT FOR DEVELOPMENT AND PRODUCTION

30 CFR 250.34-4  
40 CFR 1500.4

Prior to the approval of a development and production plan, the Director of the U.S. Geological Survey, through the appropriate regional office, reviews the environmental impacts of activities proposed in the plan. The review gives particular attention to (1) seismic risks, (2) areas of high ecological sensitivity, (3) hazardous natural bottom conditions, and (4) the use of new and unusual technology. This USGS review is published as an environmental assessment (EA), or, if conducted jointly by State and Federal agencies, it is referred to as an environmental impact report/environmental assessment (EIR/EA).

If, in the opinion of the Director, the environmental assessment indicates that approval of the plan will not result in significant effects on the quality of the human environment, a finding of no significant impact is prepared. The FONSI briefly presents the basis for that finding and includes a summary or copy of the environmental assessment.

Notice of the availability of the EA's and FONSI's prepared for each OCS region is published every 3 months in the Federal Register.

If it is determined that approval of the plan would constitute a major Federal action significantly affecting the quality of the human environment, an environmental impact statement must be prepared. At this time, consideration is also given to significant adverse impacts upon the marine, coastal, or human environments resulting from the construction of new onshore facilities. Cumulative and previously unforeseen impacts are also considered. On the basis of the environmental assessment or the environmental impact statement findings and the technical review by the U.S. Geological Survey, the development and production plan will be approved, rejected, or modified.

A listing of environmental assessments for development and production for the 1968 Lease Sale and Lease Sale 35 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201. No data on environmental assessments for development and production are included in this edition.

## STEP 12. DEVELOPMENT AND PRODUCTION DRILLING

30 CFR 250.36

After approval of the development and production plan and installation of a platform or other drilling structure, the lessee or operator files an application for permit (APD) to drill with the supervisors of the OCS oil and gas offices in the region. The APD includes specific information on the location and depth of wells. An APD approved by the U.S. Geological Survey constitutes a drilling permit. An additional APD must be filed and approved each time a well is deepened, re-worked, redrilled, or plugged.

Other Federal permits required prior to platform installation and subsequent development drilling include permits for aids to navigation from the U.S. Coast Guard, navigation permits from the U.S. Army Corps of Engineers, and National Pollutant Discharge Elimination System permits from the Environmental Protection Agency.

A listing of development and production plans for the 1966 Lease Sale and other listings for the 1968 Lease Sale and Lease Sale 35 can be found in the previous edition of the Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

### 1968 LEASE SALE

#### Development and Production Drilling Permits

Unit/(Field)	Lease No. OCS-P	Block No.	Platform	Well No.	Operator	Submittal Date	Approval Date
Santa Ynez	0188	53N 74W	Hondo	H-20	Exxon	2/26/81	3/4/81
Santa Ynez	0188	53N 74W	Hondo	H-25	Exxon	6/29/81	Pending
Santa Clara	0217	48N 62W	Grace	A-7	Chevron	10/24/81	11/10/81
Santa Clara	0217	48N 62W	Grace	A-8	Chevron	11/13/80	11/18/80
Santa Clara	0217	48N 62W	Grace	A-9	Chevron	11/25/80	12/5/80
Santa Clara	0217	48N 62W	Grace	A-10	Chevron	2/17/81	2/23/81
Santa Clara	0217	48N 62W	Grace	A-11	Chevron	3/16/81	3/18/81
Santa Clara	0217	48N 62W	Grace	A-12	Chevron	4/23/81	4/30/81
Santa Clara	0217	48N 62W	Grace	A-14	Chevron	6/3/81	6/24/81
Santa Clara	0217	48N 62W	Grace	A-16	Chevron	6/11/81	6/19/81
(Carpinteria Offshore)	0240	51N 64W	Henry	B-3	Sun	2/3/81	2/6/81
(Carpinteria Offshore)	0240	51N 64W	Henry	B-11	Sun	12/5/80	12/22/80
(Carpinteria Offshore)	0240*	51N 64W	Henry	B-13	Sun	10/3/80	10/7/80
(Carpinteria Offshore)	0240	51N 64W	Henry	B-14	Sun	1/6/81	1/12/81
(Carpinteria Offshore)	0240	51N 64W	Henry	B-15	Sun	3/4/81	3/6/81
(Carpinteria Offshore)	0240	51N 64W	Henry	B-16	Sun	4/2/81	4/6/81
(Carpinteria Offshore)	0240*	51N 64W	Henry	B-18	Sun	10/24/80	10/27/80
(Carpinteria Offshore)	0240	51N 64W	Henry	B-24	Sun	6/30/81	Pending

Availability: USGS.

\*These permits were inadvertently omitted from the previous index.

## LEASE SALE 35 (1975)

## Development and Production Drilling Permits

Unit/(Field)	Lease No. OCS-P	Block No.	Platform	Well No.	Operator	Submittal Date	Approval Date
(Beta)	0300 *	36N 36W	Ellen	A-6	Shell	9/29/80	10/7/80
(Beta)	0300	36N 36W	Ellen	A-7	Shell	12/5/80	12/24/80
(Beta)	0300	36N 36W	Ellen	A-8	Shell	12/1/80	12/5/80
(Beta)	0300	36N 36W	Ellen	A-9	Shell	12/18/80	12/24/80
(Beta)	0300	36N 36W	Ellen	A-10	Shell	11/4/80	11/13/80
(Beta)	0300	36N 36W	Ellen	A-11	Shell	3/2/81	3/16/81
(Beta)	0300	36N 36W	Ellen	A-12	Shell	12/4/80	12/5/80
(Beta)	0300	36N 36W	Ellen	A-13	Shell	3/12/81	3/18/81
(Beta)	0300	36N 36W	Ellen	A-14	Shell	1/12/81	1/28/81
(Beta)	0300	36N 36W	Ellen	A-15	Shell	4/6/81	4/9/81
(Beta)	0300	36N 36W	Ellen	A-16	Shell	12/22/80	1/9/81
(Beta)	0300	36N 36W	Ellen	A-17	Shell	4/21/81	4/22/81
(Beta)	0300	36N 36W	Ellen	A-18	Shell	12/18/80	12/24/80
(Beta)	0300	36N 36W	Ellen	A-19	Shell	6/25/81	Pending
(Beta)	0300	36N 36W	Ellen	A-20	Shell	2/6/81	2/12/81
(Beta)	0300	36N 36W	Ellen	A-22	Shell	4/16/81	4/23/81
(Beta)	0300	36N 36W	Ellen	A-24	Shell	4/16/81	4/23/81
(Beta)	0300	36N 36W	Ellen	A-26	Shell	4/21/81	5/4/81
(Beta)	0300	36N 36W	Ellen	A-28	Shell	5/13/81	5/26/81
(Beta)	0300	36N 36W	Ellen	A-30	Shell	5/19/81	5/26/81
(Beta)	0300	36N 36W	Ellen	A-32	Shell	6/8/81	6/19/81
(Beta)	0300	36N 36W	Ellen	A-34	Shell	6/11/81	6/24/81

Availability: USGS.

\* This permit was inadvertently omitted from the previous index.

**STEP 13. PIPELINES**

30 CFR 250.18

43 CFR 3340

Once marketable quantities of oil or gas are found, a permit is required for pipeline transportation across the OCS. The U.S. Geological Survey has permit jurisdiction over OCS pipelines that are wholly contained within the boundaries of a single lease, the boundaries of unitized leases, or the boundaries of adjacent leases under the same lessee or operator. The USGS permit is granted by the Director of the USGS. The Bureau of Land Management has permit jurisdiction over OCS pipelines that extend beyond the boundaries of a single lease, of unitized leases, or of adjacent leases under the same lessee or operation. The right-of-way is granted by the Manager of the Bureau of Land Management's regional OCS office. The right-of-way includes the site on which the common-carrier pipelines and associated structures are situated. The Bureau of Land Management, with

the participation of other bureaus as appropriate, plans the location of pipeline rights-of-way. The Fish and Wildlife Service prepares and submits reports to the BLM concerning potential effects on biological resources from laying pipelines in proposed right-of-way corridors. The U.S. Geological Survey performs a technical review and makes a hazard analysis of the proposed pipeline routes.

Regulations for pipelines on the OCS are also issued by the Department of Transportation's Materials Transportation Bureau. In addition, the U.S. Army Corps of Engineers issues permits for the construction of pipelines in navigable waters. State and local agencies are responsible for regulation of pipelines in State waters and landfalls.

A listing of data on pipeline permits for the 1966 Lease Sale and Lease Sale 35, as well as additional listings for the 1968 Lease Sale, can be found in the previous Pacific Index (January 1962 - October 1980), USGS Open-File Report 80-1201.

**1968 LEASE SALE****Pipeline Permits**

Unit/(Field)	Lease No. OCS-P	Block No.	Operator	Type of Permit	Pipeline Type and Size	Length of Pipeline	Location of Pipeline	Submittal Date	Approval Date
Santa Ynez	0188	63N 74W	POPCO	Right-of-way	12" gas	6.9 mi (11 km)	Hondo to shore	5/17/79	1/23/81
(Hueneme Offshore)	0202	46N 58W	Union	Right-of-way	10" oil 6" water	6.3 mi (10 km)	Gina to shore	11/22/80	1/30/81
Santa Clara	0216	48N 61W	Union	Right-of-way	12" oil 10" gas 6" water	10.6 mi (17 km)	Gilda to shore	11/22/80	1/30/81

Availability: USGS.

## STEP 14. PRODUCTION

With the approval of the U.S. Geological Survey, the individual lessees determine the amount and duration of production. Once production begins, monthly reports of operations and royalty payments must be submitted to the USGS. Lessees must also comply with all safety and operating requirements of the USGS and the U.S. Coast Guard. In addition, lessees must obtain USGS approval of any significant modification of production equipment or procedures. The term of a particular lease will be extended beyond the initial term as long as production, drilling, or well reworking operations on that lease are approved by the Secretary of the Interior.

Details concerning production can be obtained from the Pacific Summary Report (**Outer Continental Shelf Oil and Gas Activities in the Pacific (Southern California) and their Onshore Impacts: A Summary Report, May 1980**, USGS Open-File Report 80-645) and the updates to that report.

## STEP 15. LEASE CANCELLATION, EXPIRATION, OR RELINQUISHMENT

30 CFR 250.15, 250.20, 250.34a  
43 CFR 3320

Lessees may allow leases to expire at the end of their initial term unless the leases are extended through production or approved drilling or well reworking operations. Leases may also be surrendered by filing a written relinquishment with the appropriate regional BLM office. A producing lease is subject to Federal review and may also be cancelled by the Secretary of the Interior, for noncompliance with the provisions of the OCS Lands Act or applicable regulations. Nonproducing leases may be cancelled by an authorized officer, subject to judicial review, for noncompliance with the OCS Lands Act or applicable regulations. The Secretary may also cancel a lease when continued activity under the lease would probably cause serious harm or damage to life, property, any mineral, national security, or

the marine, coastal, or human environment over an unreasonable period of time. At the time of abandonment, wellheads must be cut off below the surface of the ocean floor and other bottom obstructions must be removed. The Bureau of Land Management is responsible for all official record title actions, and official administrative records are maintained by each regional OCS office and are available to the public.

Expiration dates of leases for Lease Sales in the Pacific OCS area are as follows: 1963 Lease Sale - June 30, 1968; 1964 Lease Sale - November 30, 1969; 1966 Lease Sale - December 31, 1972; 1968 Lease Sale - January 31, 1973; Lease Sale 35 - January 31, 1981; Lease Sale 48 - August 31, 1984; and Lease Sale 53 - June 30, 1986. These dates are based on the effective dates for the sales. Actual expiration dates of individual leases may vary according to when the leases are signed by the lessee or as a result of extensions through production. Information on the status of individual leases may be obtained from the appropriate regional BLM office.

## LEASE SALE 35 (1975)

### Lease Relinquishments

Lease No.	Block No.	Lessee	Date
0244	40N 74W	Chevron, Champlin	12/22/80
0245	40N 73W	Chevron, Champlin	12/22/80
0246	40N 72W	Chevron, Champlin	12/22/80
0250	37N 70W	Atlantic Richfield	1/8/81
0253	36N 70W	Atlantic Richfield	1/8/81
0257	18N 62W	Texaco and others	12/24/80
0259	18N 60W	Atlantic Richfield	1/8/81

## Lease Relinquishments (Continued)

Lease No.	Block No.	Lessee	Date
0263	17N 59W	Atlantic Richfield	1/8/81
0264	16N 61W	Exxon	12/24/80
0265	16N 61W	Exxon	12/24/80
0268	15N 59W	Exxon	12/24/80
0269	15N 58W	Exxon	12/24/80
0270	15N 57W	Exxon	12/24/80
0271	14N 59W	Exxon	12/24/80
0272	14N 58W	Exxon	12/24/80
0273	14N 57W	Texaco and others	12/24/80
0274	14N 56W	Exxon	12/24/80
0275	13N 60W	Exxon	12/24/80
0285	11N 58W	Atlantic Richfield	1/8/81
0286	11N 57W	Texaco and others	12/24/80
0287	11N 56W	Atlantic Richfield	1/8/81
0288	10N 59W	Texaco and others	12/24/80
0303	33N 34W	Chevron, Champlin	12/22/80
0309	31N 35W	Chevron	12/15/80

Availability: BLM.

## Lease Expirations

Lease No.	Block No.	Lessee	Date
0243	41N 71W	OXOCO and others	1/31/81
0247	40N 71W	OXOCO and others	1/31/81
0249	37N 73W	Shell and others	1/31/81

Lease No.	Block No.	Lessee	Date
0252	36N 71W	OXOCO and others	1/31/81
0258	18N 61W	Gulf	11/30/80
0260	17N 62W	Shell and others	1/31/81
0276	13N 59W	Marathon and Getty	1/31/81
0277	13N 57W	Shell and others	1/31/81
0278	13N 56W	Shell and others	1/31/81
0280	12N 58W	Challenger and others	1/31/81
0281	12N 57W	Challenger and others	1/31/81
0282	12N 56W	Challenger and others	1/31/81
0284	12N 53W	Shell	1/31/81
0289	33N 57W	Mobil and others	1/31/81
0290	32N 57W	Mobil and others	1/31/81
0291	31N 57W	Mobil and others	1/31/81
0293	35N 37W	Shell and others	1/31/81
0298	34N 35W	Shell and others	1/31/81
0302	33N 35W	Gulf	11/30/80
0304	32N 38W	Mobil and others	1/31/81
0310	30N 35W	Gulf	11/30/80
0311	30N 34W	Challenger and others	1/31/81

Availability: BLM



## 4. Ongoing Programs

There are four programs that generate Outer Continental Shelf (OCS)-related data used on a continuous basis from pre-lease-sale activities through production. These are the U.S. Geological Survey (USGS) geological and geophysical surveys and analyses, the Intergovernmental Planning Program of the Bureau of Land Management (BLM), the BLM's regional environmental and socioeconomic studies, and the Department of the Interior's OCS Oil and Gas Information Program. Each of these programs is presented in this chapter.

### GEOLOGICAL AND GEOPHYSICAL SURVEYS AND ANALYSES

30 CFR 251

Geological and geophysical surveys and analyses provide most of the resource information used by the Government and industry on the oil and gas potential of various OCS areas. The collection of geological and geophysical data begins prior to the lease sale scheduling and continues throughout the OCS leasing process. The regional USGS offices issue pre-sale geological and geophysical exploration permits to specialized data-collection firms and industry. Data are also collected directly by operations of the U.S. Geological Survey.

All permit holders must notify the Director of the U.S. Geological Survey of the acquisition, analysis, or interpretation of any geological or geophysical data or information. The Director may inspect and require submission of, on a proprietary basis, all data and information. When any significant hydrocarbon occurrences are detected or environmental hazards are encountered on unleased lands during drilling operations, the Director im-

mediately issues a public announcement. Continental Offshore Statigraphic Test (COST) well results are released after completion of a test well or 60 days after issuance of an OCS lease within 50 geographic miles (92.6 km) of the test site, whichever comes first. Unless the release of geological or geophysical data and information is governed by a contractual agreement that establishes specific terms for public release, the disclosure requirements in effect through regulation or Federal Register notice on the date a permit is issued will govern the public release of such data and information obtained and submitted to the Director under that permit. Public data and information are made available through the National Geophysical and Solar-Terrestrial Data Center, National Oceanic and Atmospheric Administration, and may be inspected at the regional office that acquired the data.

States may review proprietary data submitted to the Director of the U.S. Geological Survey at locations designated by the Secretary of the Interior, pursuant to sections 26(d)(2) and 205(g) of the OCS Land Acts Amendments of 1978. This section requires that an official be appointed by the Governor for the inspection of the information and that the State be subject to certain provisions of confidentiality.

### INTERGOVERNMENTAL PLANNING PROGRAM

The Intergovernmental Planning Program for OCS Oil and Gas Leasing, Transportation and Related Facilities (IPP) was implemented to provide a formal coordination and planning mechanism for three major OCS program elements administered by the Bureau of Land

Management. These elements are the leasing process, the Environmental Studies Program, and transportation planning. The leasing process was discussed in detail in chapter 3, and the Environmental Studies Program will be discussed in the next section of this chapter.

In each of the six OCS leasing regions (North Atlantic, Mid-Atlantic, South Atlantic, Gulf of Mexico, Pacific, and Alaska), a Regional Technical Working Group (RTWG) Committee has been established. The RTWG Committees are one of three types of committees comprising the National OCS Advisory Board. The others are the Policy Committee and the Scientific Committee. The National OCS Advisory Board provides advice to the Secretary of the Interior and to other offices in the Department of the Interior in the performance of discretionary functions of the OCS Lands Act as amended (43 U.S.C. 1331 et seq.), including all aspects of leasing, exploration, development, and production of the resources of the Outer Continental Shelf.

Through the accumulation and evaluation of information, the Regional Technical Working Group Committees advise the Secretary, through the Director of the Bureau of Land Management, on technical matters of regional concern regarding pre-sale activities, transportation-related studies requirements, and transportation management plans for each OCS leasing region. Thus, RTWG Committee activities concern every aspect of the leasing program under BLM jurisdiction. Each RTWG Committee is composed of representatives of the affected States, the Bureau of Land Management, the Fish and Wildlife Service, the U.S. Coast Guard, the U.S. Geological Survey, the Environmental Protection Agency, the National Oceanic and Atmospheric Administration, the oil and gas industry, and other special and private interests that exist in a leasing region. Every RTWG Committee is co-chaired by a State representative, who is elected by all the State representatives on the group, and by the OCS regional office manager or designee. The State representative's term as co-chairman is determined by the State representatives on the group.

The movement of oil and/or gas from the Outer Continental Shelf to use points or to processing points is an important part of the

overall RTWG planning function. The principal end product of this planning effort is a Regional Transportation Management Plan (RTMP). At a minimum, each final RTMP will include the following information and recommendations:

- analysis of factors that influence the choice of transport modes and recommendations for preferred or unacceptable areas for pipeline siting, including all routes to onshore facilities or to offshore terminals serving as collection points for more than one production area;
- identification of environmentally sound alternative areas for the location of onshore facilities;
- alternatives regarding surface vessel transportation, in accordance with appropriate regulatory agencies;
- plans for monitoring of construction and operations and any required followup studies; and
- any stipulations and use restrictions identified as applicable to transportation rights-of-way.

IPP transportation planning has four phases, each of which is related to steps in the OCS leasing, exploration, and development sequence. Each planning phase is more detailed and site-specific than the preceding one, and the third and fourth phases are begun only in the event of a discovery of oil and/or gas in commercially producible quantities. Phase I begins with the request for resource reports. This phase establishes the initial data base for the leasing region and identifies information needs for the following phases. Phase II is initiated with the publication of the proposed notice of sale in the Federal Register. Tasks include the examination of the scope and implications of the regional transportation issues and the recommendation of studies for inclusion in the Regional Studies Plan. Phase III, initiated only after a discovery of marketable quantities of oil or gas, has the design and implementation of site-specific transportation studies as its primary objective. Upon the

completion of Phase III studies, Phase IV is initiated, resulting in the Regional Transportation Management Plan.

A Preliminary Draft Regional Transportation Management Plan for the Santa Barbara Channel and San Pedro Channel/Gulf of Santa Catalina is presently undergoing internal review by the BLM's Pacific OCS office. Questions concerning the document or its status may be directed to the Pacific OCS Office.

## **REGIONAL ENVIRONMENTAL AND SOCIOECONOMIC STUDIES**

### **43 CFR 3331**

The BLM's Environmental Studies Program was initiated in 1973 by the Secretary of the Interior through a commitment to perform investigations of certain environmental features of the Gulf of Mexico. The program was formalized in section 20 of the OCS Lands Act Amendments of 1978 (Public Law 95-372), which requires the Secretary to conduct a study of any area or region included in any oil and gas lease sale in order to establish information needed for assessment of the human, marine, and coastal environments of the Outer Continental Shelf and the coastal areas that may be affected by oil and gas development there.

The Environmental Studies Program is currently under the direction of the BLM's Assistant Director, Energy and Mineral Resources. The program consists of an environmental studies group in each of the BLM's regional OCS offices (New York, New Orleans, Los Angeles, and Anchorage) and the Branch of Offshore Studies in Washington, D.C. The regional OCS offices and the Washington Office have different functions in the program. The regional offices are responsible for developing statements of regional study needs (Regional Study Plans), preparing statements of work, evaluating requests for proposals, and monitoring contractor performance on all approved regional studies. The Washington, D.C., Branch of Offshore Studies has the overall management, planning, and budgeting responsibility for the studies program. The Chief of the Branch of Offshore Studies is

responsible for the technical adequacy of the program, and the regional offices are responsible for the technical adequacy of its component studies. The Branch of Offshore Studies prepares program guidance for the regional offices to use in the preparation of Regional Study Plans, establishes national priorities, compiles the National Study Plan, and manages studies that are applicable to more than one leasing region.

The normal process of defining the National Study Plan usually begins with the Branch of Offshore Studies, through the Assistant Director, establishing the schedule for the regional offices to prepare Regional Study Plans. These plans include statements of regional study needs, the regional perspective on the priorities of these needs, and a brief description of each proposed study and an estimated cost for each study. The Branch of Offshore Studies reviews draft Regional Study Plans from all four regional OCS offices for programmatic consistency, cost, use of ranking criteria, and relevance to issues of national interest, and the OCS offices revise their respective study plans accordingly. Following the submission of final study plans, the Branch of Offshore Studies compiles a preliminary National Study List.

The regional offices procure the studies on the approved study list unless a proposed change is approved by the BLM's Assistant Director. This permits the regional offices to respond to unanticipated study needs that arise between compilation of study plans, and it also ensures the continuity of program initiatives.

The RTWG Committees are also involved in the development of regional study programs. These groups are involved in the determination of issues that require study and their importance to regional decisionmakers. The RTWG Committees review the draft Regional Study Plan, and they are briefed on the status of regional studies on the national list. The committees are advised of studies that are approved for funding, and they may also be involved in the design and decision of approved studies.

The proposed environmental studies are reviewed by the Scientific Committee of the

OCS Advisory Board. This committee has the responsibility to review the appropriateness, feasibility, and scientific merit of the program's component studies. The committee may comment on any study in the program, including those nominated by the RTWG Committees. The Scientific Committee may institute a change in any study's scope, techniques, or cost.

Some regional studies are continued through subsequent leasing activities. These studies establish environmental information for comparison with any previously collected data to identify any significant changes in the quality and productivity of the human, marine, and coastal environments.

## **OCS OIL AND GAS INFORMATION PROGRAM**

30 CFR 252  
43 CFR 3300.2

Section 26 of the OCS Lands Act, as amended, calls for the establishment of an Outer Continental Shelf Oil and Gas Information Program. This section requires submission and public dissemination of oil and gas

data and information resulting from exploration, development, and production activities. Procedures and requirements established for the Outer Continental Shelf Oil and Gas Information Program, now managed by the Office of OCS Information, are contained in 30 CFR 252.3, 252.4, and 252.5, and 43 CFR 3300.2. These regulations require the Director of the U.S. Geological Survey and the Bureau of Land Management to make available to affected States a regional summary report of information and data designed to assist State and local governments in planning for onshore impacts of potential OCS oil and gas development and production. The regulations also require the Directors of the Survey and the Bureau of Land Management to provide affected States with an index that lists all relevant, actual, or proposed programs, plans, reports, environmental impact statements, and lease sale information. Neither of these documents is to contain proprietary information.

Limited technical assistance in planning for coastal effects associated with OCS oil and gas development is also available from the Office of OCSI. All requests for technical assistance will be evaluated and approved on a case-by-case basis, and inquiries should be directed to the OCSI Office at the address shown in the front of this publication.

## 5. State and Local Involvement in the OCS Leasing Process

This chapter describes State and local participation in the Federal Outer Continental Shelf (OCS) leasing process as well as the autonomous responsibilities of States for OCS-related activities. The specific State agencies in each of the Pacific States that are, or could be, involved in OCS-related activities are also presented. These agencies, their addresses, phone numbers, and the names of people to contact are listed in appendix B.

### STATE AGENCY PARTICIPATION IN THE FEDERAL OCS PROCESS

The Federal Government, represented by the Department of the Interior, coordinates and consults with affected States and, through States, with local governments, during the Federal OCS leasing process.

Federal/State interaction often begins with the review of the proposed OCS oil and gas leasing schedule. This step, and several subsequent steps throughout the sale process, require the Federal Government to invite and consider suggestions from the Governors of the potentially affected States. A Governor of a State, usually through a designated agency or office, invites potentially affected local governments and pertinent State agencies to comment on the action. This agency or office is usually responsible for coordinating State and local responses by distributing the documents or information to the pertinent State agencies and local governments and submitting the responses to the Secretary of the Interior or the Bureau of Land Management. The Secretary of the Interior may then incorporate the States' positions in making decisions on various sale options.

Post-lease-sale exploration plans and development and production plans are sent to the potentially affected States for review and comment prior to the approvals granted by the Secretary of the Interior for the initiation of industry activity. The process for this review varies from State to State. Many States have an agency responding to the post-lease-sale activities different from the one that responded to the pre-lease-sale activities.

States having approved coastal zone management plans respond under section 307 of the Coastal Zone Management Act. Section 307 mandates that the State review exploration plans, development and production plans, and the activities described in detail in the plans for consistency with State programs. Upon concurrence by the State with the consistency certification, all activities described in detail can be approved. Tables 3, 4, and 5 indicate the agencies in each State of the Pacific leasing region that are responsible for consistency certification concurrence. These agencies usually distribute the plans and coordinate the responses (either of concurrence or objection) to the consistency determination. If a State does not submit a concurrence or a written statement describing the status of review to the Secretary of the Interior within 3 months (section 307(c)(B)(ii) and 15 CFR 930.79 of the Coastal Zone Management Act, as amended by section 504 of the OCS Lands Act) after the receipt of the exploration plan or the development and production plan, it is presumed that the State has no objection to the consistency certification and the U.S. Geological Survey can approve the proposed industry activity.

The four Federal programs described in chapter 4 also provide opportunities for State participation.

## **AUTONOMOUS STATE RESPONSIBILITIES FOR OCS-RELATED ACTIVITIES**

State governments issue permits for various OCS-related activities in State waters, including the planning and construction of nearshore and onshore oil and gas facilities such as pipelines, terminals, refineries, and ports. Planning for and construction of these facilities usually occur during development and production phases of the Federal OCS leasing process presented in chapter 3. Permits issued by agencies in Pacific States are listed in tables 6, 7, and 8.

Federally funded State coastal zone management programs and coastal energy impact programs are important in planning for

and mitigating the impacts of retrieving oil and gas from the OCS. The agencies responsible for these programs are also listed in tables 6, 7, and 8.

## **STATE AGENCY LISTINGS**

State agencies involved in the OCS leasing process are presented in the following tables. The first group of tables presents information on State agency involvement in response to Federal initiatives. The second group of tables outlines functions (for example, the permitting of onshore facilities) that States generally carry out autonomously.

**TABLE 3.—California: participation in the Federal OCS process<sup>1</sup>**

FEDERAL OCS PROCESS	STATE AGENCY/OFFICE	TYPE OF PARTICIPATION
OCS ADVISORY BOARD	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response</li> </ul>
PROPOSED OCS OIL AND GAS LEASE SALE SCHEDULE	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response</li> </ul>
RESOURCE REPORTS	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response</li> </ul>
CALL FOR NOMINATIONS AND COMMENTS	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response</li> </ul>
TENTATIVE TRACT SELECTION NOTICE, STATE BRIEFING	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response, meeting</li> </ul>
PRE-SALE ENVIRONMENTAL IMPACT STATEMENT	GOVERNOR'S OFFICE Office of Planning and Research A-95 Clearing-house	<ul style="list-style-type: none"> <li>● Comment</li> <li>● Distribute, coordinate response</li> </ul>
PROPOSED NOTICE OF SALE	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response</li> </ul>
EXPLORATION PLAN AND ENVIRONMENTAL REPORT	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment</li> </ul>
	CALIFORNIA COASTAL COMMISSION	<ul style="list-style-type: none"> <li>● Review, comment, consistency certification concurrence</li> </ul>
ENVIRONMENTAL ASSESSMENT AND EIS, IF NECESSARY, FOR EXPLORATION	GOVERNOR'S OFFICE Office of Planning and Research A-95 Clearing-house	<ul style="list-style-type: none"> <li>● Comment</li> <li>● Distribute, coordinate response</li> </ul>
	CALIFORNIA COASTAL COMMISSION	<ul style="list-style-type: none"> <li>● Comment</li> </ul>
APPLICATION FOR PERMIT TO DRILL, EXPLORATION <sup>2</sup>	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Review, assist applicant by coordinating activities with agencies issuing permits</li> </ul>
DEVELOPMENT AND PRODUCTION PLAN AND ENVIRONMENTAL REPORT	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>● Comment</li> </ul>
	CALIFORNIA COASTAL COMMISSION	<ul style="list-style-type: none"> <li>● Consistency certification concurrence</li> </ul>

**TABLE 3.—California: participation in the Federal OCS process (Continued)**

FEDERAL OCS PROCESS	STATE AGENCY/OFFICE	TYPE OF PARTICIPATION
ENVIRONMENTAL ASSESSMENT AND EIS, IF NECESSARY, FOR DEVELOPMENT AND PRODUCTION	GOVERNOR'S OFFICE Office of Planning and Research A-95 Clearing-house	<ul style="list-style-type: none"> <li>• Comment</li> <li>• Distribute, coordinate response</li> </ul>
	CALIFORNIA COASTAL COMMISSION	<ul style="list-style-type: none"> <li>• Comment</li> </ul>
APPLICATION FOR PERMIT TO DRILL, DEVELOPMENT AND PRODUCTION <sup>2</sup>	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>• Comment</li> </ul>
PIPELINE PERMIT <sup>2</sup> (Federal Water)	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>• Review, assist applicant by coordinating activities with agencies issuing permits</li> </ul>
	CALIFORNIA COASTAL COMMISSION	<ul style="list-style-type: none"> <li>• Consistency certification concurrence</li> </ul>
INTERGOVERNMENTAL PLANNING PROGRAM (ongoing)	STATE LANDS COMMISSION, EXECUTIVE OFFICE	<ul style="list-style-type: none"> <li>• Regional Technical Working Group Committee Member</li> </ul>
GEOLOGICAL AND GEOPHYSICAL ANALYSIS <sup>4</sup> (ongoing)	GOVERNOR'S OFFICE Office of Planning and Research	<ul style="list-style-type: none"> <li>• Non-proprietary: Comment</li> </ul>
	STATE LANDS COMMISSION, EXECUTIVE OFFICE	<ul style="list-style-type: none"> <li>• Proprietary: Section 26(d)(2)(3) review</li> </ul>
	CALIFORNIA COASTAL COMMISSION	<ul style="list-style-type: none"> <li>• Non-proprietary: Comment</li> </ul>
	DEPARTMENT OF CONSERVATION Division of Mines and Geology	<ul style="list-style-type: none"> <li>• Non-proprietary: Comment</li> </ul>
REGIONAL ENVIRONMENTAL STUDIES (ongoing)	STATE LANDS COMMISSION, EXECUTIVE OFFICE	<ul style="list-style-type: none"> <li>• Regional Technical Working Group Committee Member</li> </ul>
OCS OIL AND GAS INFORMATION PROGRAM (ongoing)	DEPARTMENT OF CONSERVATION Division of Mines and Geology State Geologist <sup>3</sup>	<ul style="list-style-type: none"> <li>• Comment, distribute information</li> </ul>

**TABLE 3.—California: participation in the Federal OCS process (Continued)**

<sup>1</sup>California's Coastal Management Program was approved in 1978.

<sup>2</sup>Detailed descriptions of these activities are reviewed through exploration, development, and production plans.

<sup>3</sup>Governor's designated OCS representative along with the Director of the Office of Planning and Research. In accordance with the OCS Lands Act Amendments of 1978, the Governor of any affected State may designate an appropriate State official to receive information as designated by the Secretary of the Interior.

<sup>4</sup>The Division of Oil and Gas in the Department of Conservation serves in an informal advisory capacity for these ongoing programs in the Federal OCS process.

NOTE: Telephone numbers and addresses for the above agencies/contacts may be found in the State Section of appendix B.

**TABLE 4.—Oregon: participation in the Federal OCS process<sup>1</sup>**

FEDERAL OCS PROCESS	STATE AGENCY/OFFICE	TYPE OF PARTICIPATION
OCS ADVISORY BOARD	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● OCS Contact<sup>4</sup></li> </ul>
PROPOSED OCS OIL AND GAS LEASE SALE	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
RESOURCE REPORTS	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
CALL FOR NOMINATIONS AND COMMENTS	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
TENTATIVE TRACT SELECTION NOTICE, STATE BRIEFING	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
PRE-SALE ENVIRONMENTAL IMPACT STATEMENT	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment, coordinate response<sup>2</sup></li> </ul>
PROPOSED NOTICE OF SALE	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
EXPLORATION PLAN AND ENVIRONMENTAL REPORT	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Consistency certification concurrence<sup>2</sup></li> </ul>
ENVIRONMENTAL ASSESSMENT AND EIS, IF NECESSARY	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Consistency certification concurrence<sup>2</sup></li> </ul>
APPLICATION FOR PERMIT TO DRILL, EXPLORATION	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment</li> </ul>
DEVELOPMENT AND PRODUCTION PLAN AND ENVIRONMENTAL REPORT	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Consistency certification concurrence<sup>2</sup></li> </ul>
ENVIRONMENTAL ASSESSMENT AND EIS, IF NECESSARY, FOR DEVELOPMENT AND PRODUCTION	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Consistency certification concurrence<sup>2</sup></li> </ul>
APPLICATION FOR PERMIT TO DRILL, DEVELOPMENT AND PRODUCTION <sup>3</sup>	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment</li> </ul>
PIPELINE PERMIT <sup>3</sup> (Federal Water)	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Consistency certification concurrence<sup>2</sup></li> </ul>

**TABLE 4.—Oregon: participation in the Federal OCS process (Continued)**

FEDERAL OCS PROCESS	STATE AGENCY/OFFICE	TYPE OF PARTICIPATION
INTERGOVERNMENTAL PLANNING PROGRAM (ongoing)	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● OCS Contact<sup>4</sup></li> </ul>
GEOLOGICAL AND GEOPHYSICAL ANALYSIS (ongoing)	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT GOVERNOR'S OFFICE Special Appointed Official	<ul style="list-style-type: none"> <li>● Non-proprietary: Comment</li> <li>● Proprietary: Section 26(d)(2)(e) review</li> </ul>
REGIONAL ENVIRONMENTAL STUDIES (ongoing)	DEPARTMENT OF GEOLOGY AND NATURAL RESOURCES	<ul style="list-style-type: none"> <li>● Non-proprietary: Comment</li> </ul>
OCS OIL AND GAS INFORMATION PROGRAM (ongoing)	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● OCS Contact<sup>4</sup></li> </ul>
	LAND CONSERVATION AND DEVELOPMENT DEPARTMENT	<ul style="list-style-type: none"> <li>● Comment, distribute information</li> </ul>

<sup>1</sup> Oregon's Coastal Management Program was approved in 1977.

<sup>2</sup> Oregon has not experienced OCS leasing and has an informal system for these activities.

<sup>3</sup> Detailed descriptions of these activities are reviewed through exploration, development, and production plans.

<sup>4</sup> The Governor has not appointed a member to the OCS Policy Committee or the Regional Technical Working Group Committee; however, an OCS contact has been established.

NOTE: Telephone numbers and addresses for the above agencies/contacts may be found in the State Section of appendix B.

**TABLE 5.—Washington: participation in the Federal OCS process<sup>1</sup>**

FEDERAL OCS PROCESS	STATE AGENCY/OFFICE	TYPE OF PARTICIPATION
OCS ADVISORY BOARD	DEPARTMENT OF ECOLOGY Director's Office	<ul style="list-style-type: none"> <li>● OCS Policy Committee Member</li> </ul>
PROPOSED OCS OIL AND GAS LEASE SALE SCHEDULE	GOVERNOR'S OFFICE	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
RESOURCE REPORTS	GOVERNOR'S OFFICE	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
CALL FOR NOMINATIONS AND COMMENTS	GOVERNOR'S OFFICE	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
TENTATIVE TRACT SELECTION NOTICE, STATE BRIEFING	GOVERNOR'S OFFICE	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
PRE-SALE ENVIRONMENTAL IMPACT STATEMENT	GOVERNOR'S OFFICE Office of Financial Management	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response</li> </ul>
PROPOSED NOTICE OF SALE	GOVERNOR'S OFFICE	<ul style="list-style-type: none"> <li>● Comment, distribute, coordinate response<sup>2</sup></li> </ul>
EXPLORATION PLAN AND ENVIRONMENTAL REPORT	DEPARTMENT OF ECOLOGY Office of Land Programs	<ul style="list-style-type: none"> <li>● Consistency certification concurrence</li> </ul>
ENVIRONMENTAL ASSESSMENT AND EIS, IF NECESSARY, FOR EXPLORATION	DEPARTMENT OF ECOLOGY Office of Land Programs GOVERNOR'S OFFICE	<ul style="list-style-type: none"> <li>● Comment</li> <li>● Distribute, coordinate response</li> </ul>
APPLICATION FOR PERMIT TO DRILL, EXPLORATION	DEPARTMENT OF ECOLOGY Office of Land Programs	<ul style="list-style-type: none"> <li>● Comment</li> </ul>
DEVELOPMENT AND PRODUCTION PLAN AND ENVIRONMENTAL REPORT	DEPARTMENT OF ECOLOGY Office of Land Programs	<ul style="list-style-type: none"> <li>● Consistency certification concurrence</li> </ul>
ENVIRONMENTAL ASSESSMENT AND EIS, IF NECESSARY, FOR DEVELOPMENT AND PRODUCTION	DEPARTMENT OF ECOLOGY Office of Land Programs GOVERNOR'S OFFICE	<ul style="list-style-type: none"> <li>● Comment</li> <li>● Distribute, coordinate response</li> </ul>
APPLICATION FOR PERMIT TO DRILL, DEVELOPMENT AND PRODUCTION <sup>3</sup>	DEPARTMENT OF ECOLOGY Office of Land Programs	<ul style="list-style-type: none"> <li>● Consistency certification</li> </ul>
PIPELINE PERMIT <sup>3</sup> (Federal Water)	DEPARTMENT OF ECOLOGY Office of Land Programs	<ul style="list-style-type: none"> <li>● Comment</li> </ul>

**TABLE 5.—Washington: participation in the Federal OCS process (Continued)**

FEDERAL OCS PROCESS	STATE AGENCY/OFFICE	TYPE OF PARTICIPATION
INTERGOVERNMENTAL PLANNING PROGRAM (ongoing)	DEPARTMENT OF ECOLOGY Office of Land Programs, Shore-lands Division	<ul style="list-style-type: none"> <li>Regional Technical Working Group Committee Member</li> </ul>
GEOLOGICAL AND GEOPHYSICAL ANALYSIS (ongoing)	DEPARTMENT OF ECOLOGY Office of Land Programs	<ul style="list-style-type: none"> <li>Non-proprietary: Comment</li> </ul>
	DEPARTMENT OF NATURAL RESOURCES Division of Geology, Earth Resources	<ul style="list-style-type: none"> <li>Non-proprietary: Comment</li> </ul>
	GOVERNOR'S OFFICE Special Appointed Official	<ul style="list-style-type: none"> <li>Proprietary: Section 26 (d)(2)(e) review</li> </ul>
REGIONAL ENVIRONMENTAL STUDIES (ongoing)	DEPARTMENT OF ECOLOGY Office of Land Programs, Shore-lands Division	<ul style="list-style-type: none"> <li>Regional Technical Working Group Committee Member</li> </ul>
OCS OIL AND GAS INFORMATION PROGRAM (ongoing)	DEPARTMENT OF ECOLOGY <sup>4</sup> Office of Land Programs, Shore-lands Division	<ul style="list-style-type: none"> <li>Comment, distribute information</li> </ul>

<sup>1</sup> Washington's CZM Program received Federal approval in 1976.

<sup>2</sup> Washington State has not experienced OCS activity and has not established a formal system for these activities.

<sup>3</sup> Detailed descriptions of these activities are reviewed through exploration, development and production plans.

<sup>4</sup> Governor's designated OCS representative. In accordance with the OCS Lands Act Amendments of 1978, the Governor of any affected State may designate an appropriate State official to receive information as designated by the Secretary of the Interior.

NOTE: Telephone numbers and addresses for the above agencies/contacts may be found in the State Section of appendix B.

**TABLE 6.—California: autonomous responsibilities for OCS-related activities<sup>1</sup>**

KEY AGENCY	SPECIFIC CONTACT	RESPONSIBILITIES/CONTROLS
GOVERNOR'S OFFICE	OCS Policy Committee Member	Office of Planning and Research, Director
CALIFORNIA COASTAL COMMISSION	CZMP/CEIP Designate Areas of Particular Concern Permits: Coastal Development Tidelands Submerged Lands Public Trust lands Developments within 100 ft. of Wetlands, Estuaries, Streams, Coastal Bluffs Developments between Ocean and First Public Road or 300 ft. from Mean High Water Energy Facilities Developments in Sensitive Coastal Resource Areas	California Coastal Commission
PUBLIC UTILITIES COMMISSION	Permit: LNG Facilities	LNG Task Force
STATE LANDS COMMISSION	Easements, Leases for Dredging, Pipelines, etc.	Division of Land and Management Conservation
STATE WATER RESOURCES BOARD	Permits: NPDES State Waste Discharge Requirements Water Rights	Water Resources Control Board Division of Water Quality <sup>2</sup> Division of Water Rights
AIR RESOURCES BOARD	Permit: Air Quality	Air Resources Board <sup>3</sup>
STATE SOLID WASTE MANAGEMENT BOARD	Permit: Solid Waste Handling/Disposal	Solid Waste Management Board
DEPARTMENT OF HEALTH SERVICES	Permit: Hazardous Waste Handling/Disposal	Hazardous Materials Management Section
DEPARTMENT OF PARKS AND RECREATION	Designate Archaeologic and Historic Sites	Office of Historic Preservation

<sup>1</sup> California's federally approved CZM Program is based on a State coastal management act; the CALIFORNIA COASTAL COMMISSION is the advisory group for the CZM Program.

<sup>2</sup> Water quality permits are issued locally by nine Regional Water Quality Control Boards.

<sup>3</sup> Air quality permits are issued locally and reviewed by the Air Resources Board.

NOTE: Telephone numbers and addresses for the above agencies/contacts may be found in the State Section of appendix B.

**TABLE 7.—Oregon: autonomous responsibilities for OCS-related activities <sup>1</sup>**

KEY AGENCY	SPECIFIC CONTACT	RESPONSIBILITIES/CONTROLS
DEPARTMENT OF LAND CONSERVATION AND DEVELOPMENT	OCS Policy Committee Member <sup>2</sup> CZMP/CEIP Designate Areas of Particular Concern	Program Division
DEPARTMENT OF ENERGY	Issues Site Certificates for Petroleum, LNG, and Gas Pipelines of Certain Sizes	Energy Facility Siting Council
PUBLIC UTILITY COMMISSION	Permit: Oil and Gas Pipelines Not Controlled by DOE	Utility Division <sup>3</sup>
DEPARTMENT OF ENVIRONMENTAL QUALITY	Permit: Air Quality	Air Quality Control Division
	Permits: NPDES Water Quality Certificate	Water Quality Control Division
	Permit: Solid Waste Handling/Disposal	Solid Waste Division
	Permit: Hazardous Waste Handling/Disposal	Hazardous Waste Section
WATER RESOURCES DEPARTMENT	Permit: Water Right (Use)	Water Rights Division
	Permits: Reservoir Hydroelectric Water Well	Wells and Dam Safety Division
DIVISION OF STATE LANDS	Leases, Easements Permit: Dredge and Fill	Environmental Management Unit
DEPARTMENT OF TRANSPORTATION	Permits: Ocean Shore Improvement Removal of Ocean Shore Products (for pipelines, cable lines, etc.) Designate Archaeologic and Historic Sites	State Parks and Recreation Division

<sup>1</sup> Oregon's federally approved CZM Program is based on a State coastal management act; the LAND CONSERVATION AND DEVELOPMENT COMMISSION is the advisory group for the CZM Program.

<sup>2</sup> The Governor has not appointed a member to the OCS Policy Committee; however, an OCS contact has been established.

<sup>3</sup> Oil and gas pipelines, which are not public utilities, are under local jurisdiction for permit issuance.

**NOTE:** Telephone numbers and addresses for the above agencies/contacts may be found in the State Section of appendix B.

**TABLE 8.—Washington: autonomous responsibilities for OCS-related activities<sup>1</sup>**

KEY AGENCY	SPECIFIC CONTACT	RESPONSIBILITIES/CONTROLS
DEPARTMENT OF ECOLOGY	OCS Policy Committee Member CZMP/CEIP Designate Areas of Particular Concern Administers Shorelines Management Act (SMA) Appeals Authority for SMA Permits Permit: Floodplain Alteration/ Structures	Director's Office Shorelands Division
	Permits: NPDES Water Quality Certification Water Rights (Use of Surface and Groundwater) Water Well construction Administer Programs for Oil Spill Prevention, Investigation, Penalties	Office of Water Programs
	Permit: Hazardous Waste Handling/ Disposal	Hazardous Waste Management Section
	Permit: Air Quality	Office of Air Programs
	Permit: Solid Waste Handling/ Disposal	Solid Waste Management Division
	Administer Noise Abatement Program	Noise Section
	Evaluate Oil and Gas Facility Applications and Make Recommendations to Governor	Energy Facility Site Evaluation Council
	Easements, Leases for Water-bottoms Permit to Fill	Division of Marine Land Management
DEPARTMENT OF NATURAL RESOURCES	Easements, Leases for Agricultural and Commercial Land	Division of Land Management
DEPARTMENT OF FISHERIES	Permit: Hydraulic (Dredge and Fill) (w/Department of Game)	Natural Production Division
DEPARTMENT OF GAME	Permit: Hydraulic (Dredge and Fill) (w/Department of Fisheries)	Habitat Management

**TABLE 8.—Washington: autonomous responsibilities for OCS-related activities (Continued)**

KEY AGENCY	SPECIFIC CONTACT	RESPONSIBILITIES/CONTROLS
OFFICE OF ARCHAEOLOGY AND HISTORIC PRESEVATION	Designate Archaeologic and Historic Sites	Office of Archaeology and Historic Preservation
DEPARTMENT OF SOCIAL AND HEALTH SERVICES	Approve Public Water Supply Plans	Water Supply and Waste Section
DEPARTMENT OF TRANSPORTATION	Advice for Transportation and Facilities	Department of Transportation

<sup>1</sup> Washington's federally approved CZM Program is based on a State coastal management act; the SHORELINES HEARINGS BOARD is the advisory group for the CZM Program. The ENERGY FACILITY SITE EVALUATION COUNCIL is the lead agency for oil and gas facility siting pursuant to the State's Substitute Senate Bill 3172.

**NOTE:** Telephone numbers and addresses for the above agencies/contacts may be found in the State Section of appendix B.



# Appendix A. Listing of Federal Agencies - Headquarters and Regional

The Federal OCS mailing address and telephone listings are organized alphabetically by department or agency headquarters; the participating regional or field offices follow immediately after the headquarters offices with which they are associated.

To prepare a full mailing address, use the name of the agency or department, the

particular office designation you wish, and any other pertinent information such as mail-stop code or box number. In cases where the full address is not given, use the first complete address immediately above the office in which you are interested.

## **COUNCIL ON ENVIRONMENTAL QUALITY**

722 Jackson Place, NW.  
Washington, DC 20006

A. Allen Hill, Chairman

(202) 395-5700

Environmental Data and Monitoring  
Room 34

(202) 395-5760

John Ficke, Special Assistant

## **DEPARTMENT OF AGRICULTURE**

Minerals and Geology Staff  
USDA, Forest Service  
National Forest System Office  
P.O. Box 247  
RP-E, Room 803  
Washington, DC 20013

(202) 235-8105

Howard E. Banta, Director

## **DEPARTMENT OF COMMERCE**

### **National Oceanic and Atmospheric Administration**

National Geophysical and Solar-Terrestrial Data Center  
NOAA  
D6  
325 Broadway  
Boulder, CO 80303

(303) 497-6215

James F. Lander, Acting Director

National Marine Fisheries Service  
Office of Habitat Protection (202) 634-7490  
Page Building 2, Room 168  
3300 Whitehaven Street, NW.  
Washington, DC 20235

Dr. Robert E. Smith, Acting Director

Ocean Programs (301) 443-8963  
RD3 Building WSC-5  
Room 1025  
6010 Executive Boulevard  
Rockville, MD 20852

Dr. Joseph W. Angelovic, Director

Office of Coastal Zone Management (202) 634-4120  
3300 Whitehaven Street, NW.  
Washington, DC 20235

William Matuszeski, Acting  
Assistant Administrator

Coastal Programs Office (202) 634-1672  
James Murley, Acting Director

Office of Ocean Resources Coordination (202) 634-4120  
and Assessment  
Charles N. Ehler, Director

#### Coastal Zone Management: Regional Offices

Office of Coastal Zone Management  
3300 Whitehaven Street, NW.  
Washington, DC 20235

Kathryn Cousins  
North Atlantic Regional Manager (202) 634-4126

John Phillips  
South Atlantic Regional Manager (202) 254-7495

Ann Berger-Blundon  
Gulf Regional Manager (202) 254-7546

Peter McAvoy  
Pacific Regional Manager (202) 254-7100

Operations and Program Evaluation Office (301) 443-8951  
OA2 Building WSC-5  
Room 804  
6010 Executive Boulevard  
Rockville, MD 20852

Robert Sorey, Director

**DEPARTMENT OF DEFENSE**

Office of the Secretary (202) 695-5261  
 The Pentagon, Room 3E880  
 Washington, DC 20301

Caspar W. Weinberger, Secretary

Office of the Assistant Secretary (202) 695-2239  
 Manpower, Reserve Affairs and Logistics  
 The Pentagon, Room 3E808  
 Washington, DC 20301

Dr. Lawrence J. Korb, Assistant Secretary

**U.S. Army Corps of Engineers**

DAEN-CWZ-P (202) 272-0104  
 Pulaski Building  
 20 Massachusetts Avenue, NW.  
 Washington, DC 20314

Lt. Col. Thomas H. Magness, Assistant Director of Civil  
 Works, Environmental Program

Office of the Chief of Engineers (Regulatory Functions) (202) 272-0200  
 DAEN-CWO-N

Lt. Gen. J. K. Bratton, Chief of Engineers (202) 272-0001

**Corps of Engineers: District Offices**

U.S. Army Corps of Engineers  
 Permit Office

Alaska District (907) 752-4942  
 P.O. Box 7002  
 Anchorage, AK 99510

Baltimore District (301) 962-3670  
 P.O. Box 1715  
 Baltimore, MD 21203

Charleston District (803) 724-4330  
 P.O. Box 919  
 Charleston, SC 29402

Galveston District (713) 763-1211  
 P.O. Box 1229 (extension 82)  
 Galveston, TX 77553

Jacksonville District (904) 791-3423  
 P.O. Box 4970  
 Jacksonville, FL 32232

Los Angeles District P.O. Box 2711 Los Angeles, CA 90053	(213) 688-5606
Mobile District P.O. Box 2288 Mobile, AL 36628	(205) 690-2660
New England - Division Division Engineer 424 Trapelo Road Waltham, MA 02154	(615) 894-2400 (extension 332)
New Orleans District P.O. Box 60267 New Orleans, LA 70160	(504) 838-2255
New York District 26 Federal Plaza New York, NY 10007	(212) 264-3996
Norfolk District 803 Front Street Norfolk, VA 23510	(804) 441-3652
Philadelphia District Customs House 2nd & Chestnut Streets Philadelphia, PA 19106	(215) 597-2818
Portland District P.O. Box 2946 Portland, OR 97208	(503) 221-6995
San Francisco District 211 Main Street San Francisco, CA 94105	(415) 556-2752
Savannah District P.O. Box 889 Savannah, GA 31402	(912) 944-5347
Seattle District P.O. Box C-3755 Seattle, WA 98124	(206) 764-3495
Wilmington District P.O. Box 1890 Wilmington, NC 28402	(919) 343-4639

## DEPARTMENT OF ENERGY

Leasing Policy Development (202) 633-9421  
 Room 2140, New Post Office Building  
 12th & Pennsylvania Avenue, NW.  
 Washington, DC 20461

Robert Lawton, Director

### Federal Energy Regulatory Commission

Office of Regulatory Analysis (202) 357-8191  
 825 North Capitol Street, NW., Room 3000  
 Washington, DC 20426

Robert C. Means, Director

Office of Pipeline and Producer Regulations (202) 357-8500  
 Kenneth A. Williams, Director

## DEPARTMENT OF THE INTERIOR

Office of the Secretary (202) 343-7351  
 18th and C Streets, NW.  
 Washington, DC 20240

James G. Watt, Secretary

Assistant Secretary

Policy, Budget and Administration (202) 343-6181  
 J. Robinson West

Office of OCS Program Coordination (202) 343-9311  
 Alan Powers, Director

Michelle Tetley, Information Officer (202) 343-9314

Energy and Minerals (202) 343-2186  
 Daniel N. Miller

Fish and Wildlife and Parks (202) 343-4416  
 G. Ray Arnett

Land and Water Resources (202) 343-2191  
 Dr. Garrey E. Carruthers

Staff Assistant (OCS) (202) 343-4612  
 Pat Harvey

**Bureau of Indian Affairs**

Office of the Commissioner (202) 343-5116  
 1951 Constitution Avenue, NW.  
 Washington, DC 20245

Environmental Services Staff (202) 343-4541  
 Code 204

George Farris, Chief

**Bureau of Indian Affairs: Regional Offices**

Eastern (703) 235-2571

Area Director  
 1951 Constitution Avenue, NW.  
 Washington, DC 20245

**Pacific**

Environmental Specialist (916) 468-4682  
 Federal Office Building, RM W-2538  
 2800 Cottage Way  
 Sacramento, CA 95825

Environmental Specialist (503) 429-6744  
 P.O. Box 3785  
 Portland, OR 97208

**Alaska**

Environmental Specialist (907) 586-7177  
 Juneau Area Office  
 Federal Building  
 P.O. Box 3-800  
 Juneau, AK 99801

**Bureau of Land Management**

18th and C Streets, NW., (100)  
 Washington, DC 20240

Robert F. Burford, Director (202) 343-3801

Energy and Mineral Resources (500)  
 Sandy Blackstone, Deputy Director (202) 343-4437

Division of Offshore Resources (620)  
 Don Truesdell, Chief (202) 343-6906

Branch of Offshore Operations (621)  
 Homer Benton, Chief (202) 343-5121

Branch of Offshore Environmental Assessment (622)  
 Dr. William Van Horn, Chief (202) 343-6264

**Bureau of Land Management (Continued)**

Branch of Offshore Studies (623)  
Dr. Piet deWitt, Chief (202) 343-7744

Intergovernmental Planning Program (620)  
Richard Miller, Acting Program Leader (202) 343-6906

Division of Program Analysis and Development (630)  
Tom Readinger, Acting Chief (202)343-6906

**Bureau of Land Management: OCS Regional Offices**

Alaska OCS Office  
Office of the Manager (907) 276-2955  
P.O. Box 1159  
Anchorage, AK 99510

Esther C. Wunnicke, Manager

New York OCS Office  
Office of the Manager (212) 264-2960  
Jacob K. Javits Federal Building  
26 Federal Plaza, Suite 32-120  
New York, NY 10278

Frank Basile, Manager

New Orleans OCS Office  
Office of the Manager (504) 589-6541  
Hale Boggs Federal Building  
500 Camp Street, Suite 841  
New Orleans, LA 70130

John L. Rankin, Manager

Pacific OCS Office  
Office of the Manager (213) 688-7234  
1340 West 6th Street, Room 200  
Los Angeles, CA 90017

William E. Grant, Manager

**Fish and Wildlife Service**

18th and C Streets, NW. (202) 343-4717  
Room 3256  
Washington, DC 20240

Dr. F. Eugene Hester, Acting Deputy Director

**Fish and Wildlife Service (Continued)**

Branch of OCS Operations (202) 343-5733  
Ecological Services  
18th and C Streets, NW.  
Washington, DC 20240

Raymond L. Fritz, Chief

**Fish and Wildlife Service: Regional Offices****Alaska**

OCS Coordinator (907) 263-3505  
1011 E. Tudor Road  
Anchorage, AK 99507

**Region 1 - Pacific**

OCS Coordinator (503) 231-6154  
Lloyd 500 Building, Suite 1692  
500 NE Multnomah Street  
Portland, OR 97232

**Region 2 - Western and Central Gulf of Mexico**

OCS Coordinator (505) 766-2321  
P.O. Box 1306  
500 Gold Avenue, SW.  
Albuquerque, NM 87103

**Region 4 - Central and Eastern Gulf of Mexico**

OCS Coordinator (404) 221-6343  
Richard B. Russell Federal Building  
75 Spring Street, SW.  
Atlanta, GA 30303

**Region 4 - South Atlantic**

OCS Coordinator (803) 795-4025  
P.O. Box 12559  
217 Ft. Jackson Road  
Charleston, SC 29412

**Region 5 - Mid-Atlantic**

OCS Coordinator (301) 269 0540  
1825-B Virginia Street  
Annapolis, MD 24401

**Region 5 - North Atlantic**

OCS Coordinator (617) 965-5100  
P.O. Box 1518  
Concord, NH 03301

## Geological Survey

Office of the Director (703) 860-7411  
12201 Sunrise Valley Drive  
MS 101  
Reston, VA 22092

Dallas Peck, Director

Conservation Division (MS 610) (703) 860-7581  
Andrew V. Bailey, Acting Chief

Office of the Deputy Division Chief, (703) 860-7541  
Offshore Minerals Regulation (MS 640)  
Robert L. Rioux, Deputy Division Chief

Office of OCS Information (MS 640) (703) 860-7166  
David A. Nystrom, Chief

Branch of Offshore Resource Evaluation (MS 640) (703) 860-7564  
Bruce Weetman, Chief

Branch of Offshore Economic Evaluation (MS 640) (703) 860-7567  
Roger A. Kahler, Chief

Branch of Offshore Field Operations (MS 640) (703) 860-6831  
Price McDonald, Chief

Branch of Offshore Environmental Management (MS 640) (703) 860-6461  
Gerald Rhodes, Chief

Branch of Offshore Rules and Procedures (MS 640) (703) 860-7395  
David A. Schuenke, Chief

### Geological Survey: Regional Offices

Conservation Division, (202) 254-3137  
Eastern Region/Atlantic OCS Region  
1725 K Street, Suite 213  
Washington, DC 20006

George Brown, Conservation Manager

Conservation Division, (504) 837-4720  
Gulf of Mexico OCS Region  
P.O. Box 7944  
3301 N. Causeway Boulevard  
Metairie, LA 70002

Lowell G. Hammons, Conservation Manager

**Geological Survey (Continued)**

Conservation Division, (213) 688-6485  
 Pacific OCS Region  
 1340 West 6th Street  
 Suite 240  
 Los Angeles, CA 90017

Reid Stone, Conservation Manager

Conservation Division, (907) 271-4304  
 Alaska OCS Region  
 P.O. Box 259  
 800 A Street, Room 201  
 Anchorage, AK 99510

Joe Jones, Conservation Manager

Geologic Division (MS 911) (703) 860-6531  
 Chief (Vacant)

Office of Energy Resources (MS 915) (703) 860-6431  
 Linn Hoover, Acting Chief

Office of Marine Geology (MS 930) (703) 860-7241  
 N. Terence Edgar, Chief

**National Park Service**

Division of Natural Resources (202) 523-5127  
 1100 L Street, NW.  
 Washington, DC 20240

Roland H. Wauer, Chief

Division of State Plans and Grants (202) 343-6221  
 440 G Street, NW.  
 Washington, DC 20243

Lawrence Aten, Chief

**DEPARTMENT OF JUSTICE**

10th and Constitution Avenue, NW.  
 Washington, DC 20530

William French Smith, Attorney General (202) 633-2001

## DEPARTMENT OF JUSTICE (Continued)

Antitrust Division  
Energy Section (202) 724-6410  
P.O. Box 14141  
Washington, DC 20044

Donald A. Kaplan, Chief

Land and Natural Resources Division  
General Litigation Section (202) 633-2704  
10th and Constitution Avenue, NW., Room 2133  
Washington, DC 20530

Myles E. Flint, Chief

## DEPARTMENT OF TRANSPORTATION

400 Seventh Street, SW.  
Washington, DC 20590

Drew L. Lewis, Secretary (202) 426-1111

Office of Environment and Safety  
Environmental Coordination Division (P-23) (202) 426-4366  
400 Seventh Street, SW., Room 9422  
Washington, DC 20590

Eugene L. Lehr, Chief

## U.S. Coast Guard

2100 Second Street, SW.  
Washington, DC 20593

Admiral John B. Hayes, Commandant (202) 426-2390

Office of Marine Environment and Systems (202) 426-2008  
2100 Second Street, SW.  
Washington, DC 20593

Rear Admiral Wayne E. Caldwell, Chief

OCS Safety Project (G-MP-3) (202) 472-5160  
Capt. P.J. Cronk, Manager

**U.S. Coast Guard: District Offices****U.S. Coast Guard  
Commander**

First Coast Guard District (617) 223-3601  
150 Causeway Street  
Boston, MA 02114

Third Coast Guard District (212) 668-7196  
Governors Island  
New York, NY 10004

Fifth Coast Guard District (804) 398-6000  
Federal Building  
431 Crawford Street  
Portsmouth, VA 23705

Seventh Coast Guard District (305) 350-5654  
1018 Federal Building  
51 S.W. First Avenue  
Miami, FL 33130

Eighth Coast Guard District (504) 589-6298  
Hale Boggs Federal Building  
500 Camp Street  
New Orleans, LA 70130

Eleventh Coast Guard District (213) 590-2211  
Union Bank Building  
400 Oceangate Boulevard  
Long Beach, CA 90822

Twelfth Coast Guard District (415) 556-3860  
630 Sansome Street  
San Francisco, CA 94126

Thirteenth Coast Guard District (206) 442-5078  
Federal Building, Room 3590  
915 Second Avenue  
Seattle, WA 98174

Seventeenth Coast Guard District (907) 586-2680  
P.O. Box 3-5000  
Juneau, AK 99801

**Federal Aviation Administration**

800 Independence Avenue, SW.  
Washington, DC 20591

J. Lynn Helms, Administrator (202) 426-3111

Office of Environment and Energy  
John E. Wesler, Director

(202) 426-8406

### **Materials Transportation Bureau**

Office of Pipeline Safety Regulation  
400 Seventh Street, SW.  
Washington, DC 20590

(202) 426-2392

Melvin A. Judah, Acting Associate Director

#### **Office of Pipeline Safety Regulation: Regional Offices**

Regional Chief, Eastern Region  
Room 9413  
400 Seventh Street, SW.  
Washington, DC 20590

(202) 755-9435

Regional Chief, Southern Region  
1568 Willingham Drive, Suite 200-B  
Atlanta, GA 30337

(404) 763-7861

Regional Chief, Southwest Region  
6622 Hornwood Drive  
Houston, TX 77074

(713) 226-5476

Regional Chief, Western Region  
831 Mitten Road  
Burlingame, CA 94010

(415) 876-9085

### **DEPARTMENT OF THE TREASURY**

Assistant Secretary, Economic Policy  
15th Street and Pennsylvania Avenue, NW.  
Washington, DC 20220

(202) 566-2551

Dr. Paul Craig Roberts, Assistant Secretary

### **ENVIRONMENTAL PROTECTION AGENCY**

Office of the Administrator  
401 M Street, SW.  
Washington, DC 20460

(202) 755-2700

Anne M. Gorsuch, Administrator

Office of Federal Activities, A-104 (202) 755-0777  
 William N. Hedeman, Jr., Director  
 Virginia Fox-Norse, OCS Liaison (202) 755-9408

**Environmental Protection Agency: Regional Offices**

**Region I**  
 J.F. Kennedy Federal Building (617) 223-4635  
 Room 2203  
 Boston, MA 02203

**Region II**  
 26 Federal Plaza (212) 264-0592  
 New York, NY 10007

**Region III**  
 Curtis Building (215) 597-4313  
 6th and Walnut Streets  
 Philadelphia, PA 19106

**Region IV**  
 345 Courtland Street, NE (404) 881-7458  
 Atlanta, GA 30308

**Region VI**  
 First International Building (214) 767-2716  
 1201 Elm Street  
 Dallas, TX 75270

**Region IX**  
 215 Fremont Street (415) 556-6925  
 San Francisco, CA 94105

**Region X**  
 Mail Stop 443 (206) 442-1285  
 1200 Sixth Avenue  
 Seattle, WA 98101

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

Management Support Office (202) 755-8383  
 Code LD4  
 400 Maryland Avenue, SW.  
 Washington, DC 20546

Nathaniel Cohen, Director

## Appendix B. Listing of Pacific Region State Agencies

The State OCS mailing address/telephone listings are organized alphabetically by coastal States and OCS-related departments within the States.

To prepare a full mailing address, use the name of the agency or department, the

particular office designation you wish, and any other pertinent information such as mail-stop code or box number. In cases where the full address is not given, use the first complete address immediately above the office in which you are interested.

### CALIFORNIA

#### AIR RESOURCES BOARD

(916) 322-2990

P.O. Box 2815  
Sacramento, CA 95812

Mary D. Nichols, Chairwoman

Ronald Friesen, Chief of the Industrial Project  
Support Branch

(916) 322-6026

#### CALIFORNIA COASTAL COMMISSION

(415) 543-8555

631 Howard Street  
4th Floor  
San Francisco, CA 94105

Michael Fischer, Executive Director

Mari Gottdiener, OCS Coordinator

Tom Tobin, Ports and Energy Coordinator,  
and ad hoc RTWG Member

**DEPARTMENT OF CONSERVATION** (916) 322-1080

1416 9th Street  
Sacramento, CA 95814

Division of Mines and Geology (916) 445-1923  
Dr. James F. Davis, State Geologist

Division of Oil and Gas (916) 323-1777  
M.G. Mefferd, Chief

**DEPARTMENT OF HEALTH SERVICES** (916) 445-4171

714-744 P Street  
Sacramento, CA 95814  
Beverly Meyers, Director

Hazardous Materials Management Section (916) 322-2337  
Peter A. Rogers, Chief

**DEPARTMENT OF PARKS AND RECREATION** (916) 445-2358

1416 Ninth Street, 14th Floor  
P.O. Box 2390  
Sacramento, CA 95811

Pete Dangermond, Jr., Director

Office of Historic Preservation (916) 445-8006  
1220 K Street  
P.O. Box 2390  
Sacramento, CA 95811

Dr. Knox Mellon, Historic Preservation Officer

**GOVERNOR'S OFFICE** (916) 445-2841

State Capitol, First Floor  
Sacramento, CA 95814

Edmund G. Brown, Jr.

Office of Planning and Research (916) 322-2318  
1400 10th Street  
Sacramento, CA 95814

Deni Greene, Director and OCS Policy Committee Member (916) 322-2318

Office of Permit Assistance and Projects Coordination (916) 322-8515  
Charles Brandes, Director

A-95 Clearinghouse (916) 322-4245  
Noreen Manofsky, Secretary

**PUBLIC UTILITIES COMMISSION** (415) 557-1487

California State Building  
Room 5052  
350 McAllister Street  
San Francisco, CA 94102

Joseph E. Bodovitz, Executive Director

LNG Task Force (415) 557-1612  
Lionel Wilson, Head

**SOLID WASTE MANAGEMENT BOARD** (916) 322-3330

1020 Ninth Street  
Suite 300  
Sacramento, CA 95814

Terry Trumbull, Chairman

Enforcement and Technical Assistance Division (916) 322-6187  
Douglas Strauch, Chief

**STATE LANDS COMMISSION** (916) 322-4105

1807 Thirteenth Street  
Sacramento, CA 95814

William F. Northrup, Executive Officer and RTWG Member

Planning and Environmental Coordination Unit (916) 924-2479  
Dwight Sanders, Chief

Division of Land and Management Conservation (916) 322-7777  
R. J. Golden, Chief

**WATER RESOURCES CONTROL BOARD** (916) 920-6301

P.O. Box 100  
Sacramento, CA 95801

Carla Bard, Chairwoman

Division of Water Quality (916) 322-2640  
Michael Sloss, Chief (916) 920-6043

Division of Water Rights (916) 920-6301  
77 Cadillac Drive  
Sacramento, CA 95825

Ray Walsh, Chief

License Section (916) 920-6153  
Glen Mork, Program Manager

**OREGON****DEPARTMENT OF ENERGY (503) 378-4128**

102 Labor and Industries Building  
Salem, OR 97310

Lynn D. Frank, Director

Don Goddard, Administrator of Siting  
and Regulation (503) 378-6469

Energy Facility Siting Council (503) 378-4128  
111 Labor and Industries Building

Brother Raphael Wilson, Chairman

**DEPARTMENT OF ENVIRONMENTAL QUALITY (503) 229-5395**

522 SW Fifth  
P.O. Box 1760  
Portland, OR 97207

William H. Young, Director

Air Quality Control Division (503) 229-5397  
E. Jack Weathersbee, Administrator

Solid Waste Division (503) 229-5356  
Ernest A. Schmidt, Administrator

Hazardous Waste Section (503) 229-6434  
Richard Reiter, Supervisor

Water Quality Control Division (503) 229-5324  
Harold L. Sawyer, Administrator

**DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES**

1069 State Office Building (503) 229-1558  
Room 1005  
Portland, OR 97201

Donald Hull, State Geologist

**DEPARTMENT OF LAND CONSERVATION AND DEVELOPMENT (503) 378-8644**

1175 Court Street, NE.  
Salem, OR 97310

W.J. Kvarsten, Director

Program Division  
Dick Mathews, Manager (503) 378-4097

**DEPARTMENT OF TRANSPORTATION (503) 378-6388**

Transportation Building  
Salem, OR 97310

F.B. Klayboe, Director

State Parks and Recreation Division (503) 378-6305  
525 Trade Street, SE., Suite 301  
Salem, OR 97310

David Talbot, Administrator (503) 378-5019

Pete Bond, Ocean Shores Coordinator (503) 378-5012

**DIVISION OF STATE LANDS (503) 378-3805**

1445 State Street  
Salem, OR 97310

Carl Brenna, Acting Director

Environmental Management Unit  
Stan Hamilton, Supervisor (503) 378-3058

**GOVERNOR'S OFFICE (503) 378-3100**

254 State Capitol Building  
Salem, OR 97310

Pat Amadeo, Assistant to the Governor for Natural  
Resources and OCS Policy Committee Member (503) 378-3109

Victor Atieyah, Governor

**PUBLIC UTILITY COMMISSION (503) 378-5849**

300 Labor and Industries Building  
Salem, OR 97310

John Lobdell, Commissior

Utility Division (503) 378-6641  
William Kramer, Assistant Commissioner

**WATER RESOURCES DEPARTMENT**

(503) 378-2982

Mill Creek Office Park  
555 13th Street, NE.  
Salem, OR 97310

James E. Sexson, Director

**Water Rights Division**

(503) 378-3066

Larry Jebousek, Administrator

**Wells and Dam Safety Division**

(503) 378-8455

Albert Petska, Administrator

**WASHINGTON****DEPARTMENT OF ECOLOGY**

Mailstop PV-11  
Olympia, WA 98504

Donald W. Moos, Director

**Office of Air Programs**

(206) 753-2821

Pete Hildebrandt, Assistant Director

**Office of Land Programs**

(206) 753-6874

D. Rodney Mack, Assistant Director

**Shorelands Division**

(206) 753-6879

Duane Wegner, Supervisor

(206) 753-4433

**Solid Waste Management Division**

(206) 753-6883

Earl Tower, Supervisor

**Noise Control Section**

(206) 753-6867

Dave Saunders, Section Head

**Office of Water Programs**

(206) 753-3893

Glen H. Fiedler, Assistant Director

**Hazardous Waste Section**

(206) 753-2849

Tom Cook, Section Head

(206) 753-4276

**DEPARTMENT OF FISHERIES**

(206) 753-6623

Room 115  
General Administration Building  
Olympia, WA 98504

Rolland A. Schmitten, Director

Natural Production Division (206) 753-3621  
Sam Wright, Chief

**DEPARTMENT OF GAME (206) 753-5710**

600 North Capitol Way  
Olympia, WA 98504

Jack S. Wayland, Acting Director

Habitat Management Division (206) 753-2903  
Shirley Smith, Acting Chief

**DEPARTMENT OF NATURAL RESOURCES (206) 753-5327**

Public Lands Building  
Olympia, WA 98504

Brian J. Boyle, Commissioner of Public Lands (206) 753-5317

Division of Geology, Earth Resources  
V.E. Livingston, Jr., Manager (206) 753-6183

Division of Land Management (206) 753-5836  
John L. Chambers, Manager

Division of Marine Land Management (206) 753-5326  
W.A. Johnson, Manager

**DEPARTMENT OF SOCIAL AND HEALTH SERVICES (206) 753-3395**

OB44  
Olympia, WA 98504

Alan J. Gibbs, Secretary

Water Supply and Waste Section (206) 753-5954  
Mailstop LD-11  
Olympia, WA 98504

Jim Pluntze, Head

**DEPARTMENT OF TRANSPORTATION (206) 753-6054**

Highway Administration Building  
Olympia, WA 98504

Duane Berentson, Secretary

**ENERGY FACILITY SITE EVALUATION COUNCIL**

(206) 753-7384

Mailstop PY-11  
Olympia, WA 98504

Nicholas D. Lewis, Chairman

**GOVERNOR'S OFFICE**

(206) 753-6780

Legislative Building  
Olympia, WA 98504

John Spellman, Governor

**OFFICE OF ARCHAEOLOGY AND HISTORIC PRESERVATION**

(206) 754-1625

111 West 21st Avenue  
Olympia, WA 98504

Jacob E. Thomas, State Historic Preservation Officer

## Appendix C. Federal Depository Libraries

Under provisions of Title 44 of the United States Code, certain libraries are designated depositories for Government publications. Through them the Federal Government documents are made available to residents of every State, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands. Distribution to the libraries is made by the Office of the Superintendent of Documents. A list of the

libraries that have received pre-lease-sale environmental impact statements (EIS's) from the BLM's Pacific OCS office is published in the Federal Register in the notice of availability for the environmental impact statements. In addition, the following libraries may have received pre-lease-sale EIS's for the Pacific area or can be contacted for assistance in obtaining the documents for review.

### California

#### Arcata:

Humboldt State University Library  
Documents Department  
Arcata, CA 95521  
(707) 826-3419

#### Long Beach:

California State University at Long Beach Library  
6101 East 7th Street  
Long Beach, CA 90801  
(213) 498-4016

Long Beach Public Library  
Ocean and Pacific Avenues  
Long Beach, CA 90802  
(213) 437-2949

#### Los Angeles:

Los Angeles Public Library  
Documents Department  
630 West 5th Street  
Los Angeles, CA 90071  
(213) 626-7461

University of Southern California Library  
Government Publications  
P.O. Box 77983  
Los Angeles, CA 90007  
(213) 741-5192

- Monterey: U.S. Naval Postgraduate School  
Dudley Knox Library  
Code 2126  
Monterey, CA 93940  
(408) 646-2986
- Sacramento: California State Library  
Regional Depository  
Documents Section  
P.O. Box 2037  
Sacramento, CA 95809  
(916) 322-4572
- Sacramento Public Library  
828 I Street  
Sacramento, CA 95814  
(916) 449-5203
- San Francisco: San Francisco Public Library  
Government Documents Department  
Civic Center  
San Francisco, CA 94102  
(415) 558-3321
- San Francisco State College  
J. Paul Leonard Library  
Government Publications Department  
1630 Holloway Avenue  
San Francisco, CA 94132  
(415) 469-1557
- San Luis Obispo: California State Polytechnic University Library  
Documents Section  
San Luis Obispo, CA 93401  
(805) 546-2462
- Santa Cruz: University of California at Santa Cruz Library  
Documents Section  
Santa Cruz, CA 95064  
(408) 429-2347
- Ventura: Ventura County Library Services Agency  
P.O. Box 771  
Ventura, CA 93001  
(805) 654-2616
- Oregon**
- Corvallis: Oregon State University Library  
Documents Division  
Corvallis, OR 97331  
(503) 754-2761

**Eugene:** University of Oregon Library  
Documents Section  
Eugene, OR 97403  
(503) 686-3070

**Portland:** Portland State University Library  
Regional Depository  
P.O. Box 1151  
Portland, OR 97207  
(503) 229-3673

**Salem:** Oregon State Library  
State Library Building  
Salem, OR 97310  
(503) 378-4368

**Washington**

**Bellingham:** Western Washington University  
Mabel Zoe Wilson Library  
Documents Division  
516 High Street  
Bellingham, WA 98225  
(206) 676-3075

**Everett:** Everett Public Library  
2702 Hoyt Avenue  
Everett, WA 98201  
(206) 259-8858, Ext. 34

**Olympia:** Washington State Library  
Regional Depository  
Documents Section  
Olympia, WA 98504  
(206) 753-6525

**Port Angeles:** North Olympic Library System  
207 South Lincoln  
Port Angeles, WA 98362  
(206) 452-9253

**Seattle:** Seattle Public Library  
Documents Section  
1000 4th Avenue  
Seattle, WA 98104  
(206) 625-4870

University of Washington Libraries  
Government Documents  
Seattle, WA 98195  
(206) 543-4664

**Tacoma:**

Tacoma Public Library  
Documents Division  
1102 South Tacoma Avenue  
Tacoma, WA 98402  
(206) 572-2000, ext. 50

University of Puget Sound  
Collins Memorial Library  
1500 North Warner  
Tacoma, WA 98416  
(206) 756-3257

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## Appendix D. Additional OCS-Related Information

### OCS ORDERS

Outer Continental Shelf Orders are issued by the U.S. Geological Survey for each OCS area (Gulf of Mexico, Pacific, Alaska, Arctic, and Atlantic). These orders govern oil and gas lease operations and specify procedures and practices that must be followed during exploration and development and production activities. OCS Orders, except for the Arctic OCS area, were most recently published in January 1980, with revisions issued in August 1980. Arctic OCS Orders were published in February 1981. Copies of the Pacific Orders are available from the Conservation Manager, Pacific OCS Region, U.S. Geological Survey, 1340 6th Street, Los Angeles, CA 90017.

Twelve OCS Orders have been issued or are under development for leases in the Pacific. Order No. 13, concerning production measurement and commingling, is under consideration. The Pacific OCS Orders are as follows:

- Order No. 1 - Identification of wells, platforms, structures, mobile drilling units, and subsea objects.
- Order No. 2 - Drilling operations: includes specifications for plans, applications, drilling from fixed platforms and mobile drilling units, well casing and cementing, directional surveys, blowout preventer equipment, mud program, supervision, surveillance, and training.
- Order No. 3 - Plugging and abandonment of wells.
- Order No. 4 - Determination of well producibility.
- Order No. 5 - Production safety systems: includes pollution-control requirements.
- Order No. 6 - Procedure for completion of oil and gas wells (under development).
- Order No. 7 - Pollution prevention and control.
- Order No. 8 - Platforms and structures.
- Order No. 9 - Approval procedure for pipelines (to be revised).
- Order No. 10 - Drilling of twin core holes.
- Order No. 11 - Oil and gas production rates, prevention of waste, and protection or correlative rights (to be revised).
- Order No. 12 - Public inspection of records.

### OCS STATISTICAL SUMMARY

The OCS Statistical Summary is prepared by the New Orleans OCS Office of the Bureau of Land Management and is published in four volumes: one for all OCS lease sales held from 1954 through 1972; one for sales from 1973 through 1975; one for sales from

1976 through 1978; and one for sales from 1979 through 1981. Information is presented by lease sale. The Statistical Summary contains a listing of all tracts receiving bids and the bid amounts for each tract. It also identifies tracts receiving no bids and lists participating companies and groups of companies. Additional tables present the OCS lease numbers assigned to tracts receiving bids, important dates and Federal Register notices pertinent to each sale, and statistics on fixed-royalty and sliding-scale-royalty tracts.

Copies of any volume of the OCS Statistical Summary are available at cost from the Manager, New Orleans OCS Office, Bureau of Land Management, Hale Boggs Federal Building, Suite 841, 500 Camp Street, New Orleans, LA 70130.

## **U.S. GEOLOGICAL SURVEY OCS STANDARDS**

The U.S. Geological Survey has issued two standards for oil and gas operations on OCS leases. These standards provide guidelines and requirements for OCS oil and gas activities in addition to procedures required by OCS Orders. The standards cover the following categories:

- safety requirements for drilling operations in a hydrogen sulfide environment (GSS-OCS-1); and

- training and qualifications of personnel in well-control equipment and techniques for drilling on offshore locations (GSS-OCS-T1).

For more information on USGS Standards, contact the USGS office noted on the inside front cover of this index.

## **REPRODUCTION OF FEDERAL DOCUMENTS**

Regulations concerning the availability to the public of Department of the Interior documents are contained in title 43, Code of Federal Regulations, part 2. Subpart A of 43 CFR 2 concerns the availability of opinions issued in the adjudication of cases and of administrative manuals. Copies of final decisions and orders issued in appeals from Department decisions relating to the use and disposition of OCS lands and mineral resources are available for inspection and copying in the Office of Hearings and Appeals, Ballston Building No. 3, 4015 Wilson Boulevard, Arlington, VA 22203.

Subpart B of 43 CFR 2 sets out Department of Interior procedures for Freedom of Information Act (5 U.S.C. 552) requests. The procedures in this subpart are not applicable to requests for records published in the Federal Register or made available under subpart A.

## Abbreviations and Acronyms

APD	- Application for Permit to Drill
BLM	- Bureau of Land Management, U.S. Department of the Interior
CEIP	- Coastal Energy Impact Program, administered by the Office of Coastal Zone Management of the National Oceanic and Atmospheric Administration, U.S. Department of Commerce
CFR	- Code of Federal Regulations
COST	- Continental Offshore Stratigraphic Test
CZM	- Coastal Zone Management
DEIS	- Draft Environmental Impact Statement
EIR/EA	- Environmental Impact Report/Environmental Assessment
EIS	- Environmental Impact Statement
EPA	- Environmental Protection Agency
FONSI	- Finding of No Significant Impact
FWS	- Fish and Wildlife Service, U.S. Department of the Interior
IPP	- Intergovernmental Planning Program
m <sup>2</sup>	- square meters
m <sup>3</sup>	- cubic meters
NEPA	- National Environmental Policy Act of 1969
NPDES	- National Pollutant Discharge Elimination System
NOAA	- National Oceanic and Atmospheric Administration
NPS	- National Park Service, U.S. Department of the Interior
OCS	- Outer Continental Shelf
OCSI	- Office of Outer Continental Shelf Information, USGS
OS&T	- Offshore Storage and Treatment
RTMP	- Regional Transportation Management Plan
RTWG	- Regional Technical Working Group
SID	- Secretarial Issue Document
STWG	- State Technical Working Group
U.S.C.	- United States Code
USGS	- U.S. Geological Survey, U.S. Department of the Interior

# Glossary

Definitions presented in the glossary describe terms as they have been used in this index. The glossary is intended for general reference only; for detailed descriptions of technical or specialized terms, the reader should seek a reference in the field of particular interest.

Sources used in compiling this glossary were the Gulf of Mexico, Mid-Atlantic, South Atlantic, Pacific, Gulf of Alaska, and Gulf of Mexico Summary Reports; the OCSIP Atlantic, Pacific, Gulf of Mexico, and Alaska Indexes; the NERBC-RALI Factbook; Webster's Third New International Dictionary; the American Geological Institute's Dictionary of Geological Terms; and Langenkamp's Handbook of Oil Industry Terms and Phrases (2d ed.).

**Block** - A geological area, as portrayed on an official BLM/OCS protraction diagram or leasing map, that contains approximately 9 square miles (5,760 acres or 2,330 hectares).

**Blowout** - An uncontrolled flow of gas, oil, and other fluids from a well to the atmosphere. A well blows out when formation pressure exceeds pressure applied to the well by the column of drilling fluid.

**Call area** - The geographical area covered by the call for nominations and comments of an OCS oil and gas lease sale.

**Continental Margin** - A zone separating the emergent continents from the deep sea bottom and including the Continental Shelf and Continental Slope.

**Continental Shelf** - A broad, gently sloping, shallow feature extending from the shore to the Continental Slope.

**Continental Slope** - A relatively steep, narrow feature paralleling the Continental Shelf; the region in which the steepest descent to the ocean bottom occurs.

**Contingency plan** - A plan for possible offshore emergencies prepared and submitted by the oil/gas operator as part of the exploration plan and development and production plan.

**Development** - Activities that take place following exploration for, discovery of, and delineation of minerals in commercially attractive quantities (including but not limited to geophysical activity, drilling, platform construction, and operation of all directly related onshore support facilities) and that are for the purpose of ultimately producing the minerals discovered.

**Development and production plan** - A plan describing the specific work to be performed, including all development and production activities that the lessee(s) propose(s) to undertake during the time period covered by the plan and all actions to be undertaken up to and including the commencement of sustained production. The plan also includes descriptions of facilities and operations to be used, well locations, current geological and geophysical information, environmental safeguards, safety standards and features, time schedules, and other relevant information. Under 30 CFR 250.34-2, all lease operators are required to

formulate and obtain approval of such plans by the Director of the U.S. Geological Survey before development and production activities may commence.

**Discovery** - The initial find of significant quantities of fluid hydrocarbons on a given field on a given lease.

**Environmental impact statement** - A document required by the National Environmental Policy Act of 1969 (NEPA) or similar State law in relation to any action significantly affecting the environment.

**Exploration** - The process of searching for minerals. Exploration activities include (1) geophysical surveys where magnetic, gravity, seismic, or other systems are used to detect or infer the geologic conditions conducive to the accumulation of such minerals and (2) any drilling, except development drilling, whether on or off known geological structures. Exploration also includes the drilling of a well in which a discovery of oil or natural gas in paying quantities is made and the drilling of any additional well after such a discovery that is needed to delineate a reservoir and to enable the lessee to determine whether to proceed with development and production.

**Exploration plan** - A plan based on all available relevant information about a leased area that identifies, to the maximum extent possible, all the potential hydrocarbon accumulations and wells that the lessee(s) propose(s) to drill to evaluate the accumulations within the entire area of the lease(s) covered by the plan. Under 30 CFR 250.34-1, all lease operators are required to formulate and obtain approval of such plans by the Director of the U.S. Geological Survey before exploration activities may commence.

**Field** - An area within which hydrocarbons have been concentrated and trapped in economically producible quantities in one or more structural or stratigraphically related reservoirs.

**Geologic hazard** - A feature or condition that, if unmitigated, may seriously jeopardize

offshore oil and gas exploration and development activities. Mitigation may necessitate special engineering procedures or relocation of a well.

**Geophysical** - Of or relating to the physics of the earth, especially the measurement and interpretation of geophysical properties of the rocks in an area.

**Geophysical survey** - The exploration of an area in which geophysical properties and relationships unique to the area are measured by one or more geophysical methods.

**Hydrocarbon** - Any of a large class of organic compounds containing primarily carbon and hydrogen, comprising paraffins, olefins, members of the acetylene series, alicyclic hydrocarbons, and aromatic hydrocarbons, and occurring in many cases in petroleum, natural gas, coal, and bitumens.

**Lease** - A contract authorizing exploration for and development and production of minerals; the land covered by such a contract.

**Lease sale** - The public opening of competitive sealed bids offered by companies or individuals bidding for the right to explore for and develop certain minerals within a defined period of time.

**Lease term** - For oil and gas leases, a period of 5 years or up to and not to exceed 10 years, where a longer period is necessary to encourage exploration and development in areas because of unusually deep water or other unusually adverse conditions.

**Nautical mile** - A unit equal to 6,080 feet or 1,853 m.

**Outer Continental Shelf (OCS)** - All submerged lands that comprise the Continental Margin adjacent to the U.S. and seaward of State offshore lands (see OCS Lands Act). The OCS remains subject to Federal jurisdiction and control after enactment of the Submerged Lands Act (43 U.S.C. 1301 and 1302).

**Petroleum** - An oily, flammable bituminous liquid that occurs in many places in the upper strata of the earth, either in seepages or in reservoirs; essentially a complex mixture of hydrocarbons of different types with small amounts of other substances; any of various substances (as natural gas or shale oil) similar in composition to petroleum.

**Proprietary data** - Geologic and geophysical data and immediate derivatives thereof that cannot be released to the general public because of restrictions imposed by contracts, Federal regulations, or statutes.

**Recoverable resource estimate** - An assessment of oil and gas resources that takes into account the fact that physical and technological constraints dictate that only a portion of resources or reserves can be brought to the surface.

**Reserves** - Portion of the identified oil or gas resource that can be economically extracted.

**Reservoir** - An accumulation of hydrocarbons that is separated from any other such accumulation.

**Resource** - Concentration of naturally occurring solid, liquid, or gaseous materials in or on the earth's crust.

**Summary report** - Document prepared by the Department of the Interior pursuant to 30 CFR 252.4 that is intended to inform affected State and local governments as to current OCS resource and reserve estimates, projections of magnitude and timing of development, transportation planning, and general location and nature of nearshore and onshore facilities; also, document prepared by the U.S. Geological Survey in response to the request for Resource Reports discussing the general geology, potential mineral resources, and geological hazards of the broad OCS area under consideration for leasing.

**Tract** - A tract is an administrative unit offered at a sale that may consist of a block or more than a single block. It is an administrative method of numbering blocks offered for sale so that there is a sequential process at offering. Therefore, block numbers and tract numbers may differ.

**Unit** - Administrative consolidation of OCS leases held by two or more companies but explored, developed, and/or produced by one operator for purposes of conservation, eliminating duplication of operations, and/or maximizing resources recovered.