AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

1

o

f

2

Federal Offshore Statistics: 1992

Leasing, Exploration, Production, and Revenues
as of December 31, 1992

By Darryl K. François

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

If you would like to have a copy of this report, please contact:

U.S. Department of the Interior
Minerals Management Service
Technical Communications Service
381 Elden Street, MS 4530
Herndon, Virginia 22070-4817
(703) 787-1080

Errata

Federal Offshore Statistics: 1992

These changes were noted after publication.

In Table 6, cumulative total permits are 10,312

In Table 22, cumulative total percentage is 65.5%

In Table 25, cumulative total State production is 822,693,479 Mcf

In Table 32, total Sales Value is \$13,953,525,984

In Table 33, total Sales Volume and Sales Value is 9,513,599,314 bbl and \$126,150,776,730 respectively and 1992 Sales Value is \$6,319,667,075.

In Table 43, Royalties Received in 1992 is \$703,383,779, and cumulative total of Royalties Received is \$16,406,928,188.

In Table 46, cumulative total Sales Volume is 86,141,775,898 Mcf.

In Table 47, cumulative total Sales Volume, Sales Value, and Royalties Received is 5,518,039 short tons, \$1,070,892; and \$163,575 respectively.

In Table 52, cumulative total of Royalties Received is \$5,182,203,542.

In Table 53, cumulative total mineral revenue and cumulative mineral revenue is \$102,328,039,809 and \$1,240,229,065,421 respectively.

In Table 54, cumulative Production Royalties and Total Revenue are \$44,949,118,389 and \$102,335,597,450 respectively.

In Table 56, cumulative sales value for Gasoline & LPG and Oil Lost are \$4,151,814,137 and \$822,824 respectively.

In Table 62, cumulative annual revenue is \$1,641,518,394

Table of Contents

Abbreviations & Acronyms	xi
Inch-Pound — Metric Conversion	xiii
Preface	xv
Executive Summary	xvii
About This Document	xix
I. Federal Offshore Lands	1
II. Offshore Leasing Activity and Status	7
III. Offshore Development Activity	21
IV. Offshore Production of Crude Oil and Natural Gas	61
V. Federal Offshore Oil and Natural Gas Sales Volume and Royalties	85
VI. Revenue from Federal Offshore Leases	107
VII. Disbursement of Federal Offshore Revenue	127
VIII. Reserves and Resource Estimates of Offshore Oil and Natural Gas	133
IX. Oil Pollution in U.S. and International Waters	139
X. International Activities and Marine Minerals	147
Glossary	151

Tables

1. Areal Extent of State and Federal Submerged Lands in U.S. Offshore Areas	3
2. Areal Extent of the U.S. Exclusive Economic Zone (EEZ)	4
3. Statistical Summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992	10

4.	Summary by Year of Federal Lease Offerings and Acreage Leased, 1954–92	17
5.	Summary by OCS Region of Federal Lease Offerings and Lease Status, 1954–92 . .	19
6.	Permits Issued for Geologic and/or Geophysical Exploration on Federal Offshore Lands, 1960–92	23
7.	Oil and Gas Well Drilling on Federal Offshore Leases, 1954–92	24
8.	Oil and Gas Well Drilling Status by OCS Area, 1954–92	25
9.	Zone Completion Status of Oil and Gas Wells on the Federal OCS, 1950–92	35
10.	Zone Completion Status of Oil and Gas Wells by OCS Area, 1954–92	37
11.	Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954–92	45
12.	Installations and Removals of Offshore Production Platforms in Federal Waters, 1953–92	56
13.	Oil and Gas Production Facilities on Federal Offshore Leases, 1992	57
14.	Pipeline Installations on the Gulf of Mexico OCS, 1951–92	58
15.	Pipeline Installations on the Pacific OCS, 1967–92	59
16.	Federal Offshore Oil and Gas Production as a Percentage of Total U.S. Production, pre 1954–92	63
17.	Alabama Offshore: Crude Oil and Condensate, 1992 — Federal and State Comparison	64
18.	Alaska Offshore: Crude Oil and Condensate, 1965–92 — Federal and State Production	65
19.	California Offshore: Crude Oil and Condensate, Pre- 1933–92 — Federal and State Comparison	66
20.	Louisiana Offshore: Crude Oil and Condensate, 1941–92 — Federal and State Comparison	67
21.	Texas Offshore: Crude Oil and Condensate, 1954–92 — Federal and State Comparison	68

22.	State Offshore and Federal OCS: Crude Oil and Condensate Production, pre- 1954-92	69
23.	Alabama Offshore: Casinghead and Dry Gas, 1987-92 — Federal and State Comparison	70
24.	Alaska Offshore: Casinghead and Dry Gas, 1965-92 — Federal and State Comparison	71
25.	California Offshore: Casinghead and Dry Gas, 1960-92 — Federal and State Comparison	72
26.	Louisiana Offshore: Casinghead and Dry Gas, 1941-92 — Federal and State Comparison	73
27.	Texas Offshore: Casinghead and Dry Gas, 1954-92 — Federal and State Comparison	74
28.	State Offshore and Federal OCS: Casinghead and Dry Gas Production, pre- 1954-92	75
29.	Oil Production: Producing OCS Operators in 1992	76
30.	Natural Gas Production: Ranking OCS Operators in 1992	80
31.	Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre- 1954-92	87
32.	Condensate Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre- 1954-92	88
33.	Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre- 1954-92	89
34.	Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre- 1954-92	90
35.	Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Alabama, 1992	91
36.	Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Alabama, 1992	91
37.	Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Alabama, 1992	91

38.	Sulphur Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Alabama, 1992	92
39.	Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore California, 1968–92	92
40.	Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore California, 1968–92	93
41.	Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore California, 1968–92	93
42.	Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore California, 1968–92	94
43.	Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, pre– 1954–92	95
44.	Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, pre– 1954–92	96
45.	Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, pre– 1954–92	97
46.	Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, pre– 1954–92	98
47.	Salt Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, 1960–92	99
48.	Sulphur Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, 1960–92	100
49.	Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Texas, 1955–92	101
50.	Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Texas, 1967–92	102
51.	Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Texas, 1955–92	103
52.	Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Texas, 1957–92	104

53.	All Coastal States: Annual and Cumulative Mineral Revenue and Sales Value from Federal Offshore Leases, pre- 1954-92	110
54.	Total Revenue from Mineral Leases on the Federal OCS by Adjacent State or OCS Planning Area, 1954-92	113
55.	Total Revenues from Sulphur and Salt Leases on the Federal OCS by Adjacent State or OCS Planning Area, 1954-92	113
56.	Sales Value for Sulphur, Salt, Gasoline and LPG, Gas Lost, and Oil Lost from Federal Offshore Leases, 1960-92	114
57.	Royalties for Sulphur, Salt, Gasoline and Liquefied Petroleum Gas, Gas Lost, and Oil Lost from Federal Offshore Leases, 1960-92	115
58.	Oil and Gas and Sulphur and Salt Revenue from Federal Offshore Leases, 1953-92	116
59.	Alabama OCS: Revenue from Federal Oil and Gas Leases, 1973-92	116
60.	Alaska OCS: Revenue from Federal Oil and Gas Leases, 1976-92	117
61.	California OCS: Revenue from Federal Oil and Gas Leases, 1963-92	118
62.	Florida OCS: Revenue from Federal Oil and Gas Leases, 1959-92	119
63.	Louisiana OCS: Revenue from Federal Oil and Gas Leases, 1953-92	120
64.	Mississippi OCS: Revenue from Federal Oil and Gas Leases, 1973-92	121
65.	Oregon OCS: Revenue from Federal Oil and Gas Leases, 1964-92	121
66.	Texas OCS: Revenue from Federal Oil and Gas Leases, 1953-92	122
67.	Washington OCS: Revenue from Federal Oil and Gas Leases, 1964-92	123
68.	North Atlantic OCS: Revenue from Federal Oil and Gas Leases, 1979-92	123
69.	Mid-Atlantic OCS: Revenue from Federal Oil and Gas Leases, 1976-92	124
70.	South Atlantic OCS: Revenue from Federal Oil and Gas Leases, 1978-92	124
71.	Mandated Disbursement by Fiscal Year of Mineral Revenue from Federal OCS Leases, 1955-92	129

72.	Appropriation and Distribution of Monies by the Land & Water Conservation Fund, Fiscal Year 1965-93 and Appropriations for the National Historic Preservation Fund, Fiscal Year 1967-93	130
73.	Apportionments to States and U.S. Territories and Possessions from the Land and Water Conservation Fund and the National Historic Preservation Fund, Fiscal Year 1993	131
74.	Conditional and Risked Mean Estimates of Undiscovered, Economically Recoverable Resources for Federal Offshore Planning Areas, January 1, 1990	135
75.	Proved Oil and Gas Reserves and Cumulative Production for the United States Federal OCS, 1975-92	136
76.	Proved Oil and Gas Reserves and Cumulative Production for the Gulf of Mexico OCS Region Federal Outer Continental Shelf and Slope, 1975-92	137
77.	Proved Oil and Gas Reserves and Cumulative Production for the Pacific OCS Region Federal Outer Continental Shelf and Slope, 1975-92	138
78.	Number and Volume of Spills of More than 1 Barrel of All Pollutants from Facilities and Operations on Federal OCS Leases, 1970-92	141
79.	Spills of 1,000 Barrels or More from Facilities and Operations on Federal OCS Leases, 1964-92	142
80.	Blowouts and Spillage from Federal Offshore Wells Compared to Crude Oil and Condensate Production on Federal OCS Leases, 1971-92	143
81.	Spills of 1,000 Barrels or More from Tankers in Coastal and Offshore Waters Worldwide, 1974-92	144
82.	Spills of 1,000 bbl or More from Tankers in U.S. Coastal and Offshore Waters, 1974-92	145
83.	Estimated 1992 Net Import Reliance of Selected Nonfuel Mineral Materials as a Percent of Apparent Consumption	149

Figures

1.	Map of Federal Offshore Regions in the OCS Natural Gas and Oil Resource Management Comprehensive Program: 1992–97	5
2.	Acres Leased Compared to Bonuses Paid, 1955–92	18
3.	Acreage and Lease Distribution by OCS Region	18
4.	Exploration and Development Drilling Activity on the OCS	34
5.	OCS Leasing, Exploration, and Production Activity, 1954–92	57
6.	Federal OCS Production as a Percentage of Total U.S. Production, 1954–92	64
7.	Total Federal Offshore Crude Oil and Condensate Sales Volume Compared to Federal Leases Offshore Louisiana	105
8.	Total Federal Offshore Natural Gas Sales Volume Compared to Federal Leases Offshore Louisiana	105
9.	Revenue from Bonus Bids, Rentals and Minimum Royalties, and Oil and Natural Gas Royalties, 1954–92	125
10.	Revenue Generated from Federal Offshore Leases by Adjacent State in 1992	125
11.	Potential Location of Hard Minerals on the Federal OCS	150

Abbreviations & Acronyms

A

AK	Alaska
AL	Alabama
API	American Petroleum Institute
ASCH	American Standard Code for Information Interchange
ATL	Atlantic OCS Region
atm	atmosphere

B

bbl	barrels
Bbbl	billion barrels
BF	Beaufort Sea Planning Area
BBOE	billion barrels of oil equivalent
BOE	barrels of oil equivalent
bpd	barrels per day

C

CA	California
CCA	Central California Planning Area
CFR	Code of Federal Regulations
CGOM	Central Gulf of Mexico Planning Area
CHK	Chukchi Sea Planning Area
CKI	Cook Inlet Planning Area

D

DOI	Department of the Interior
-----	----------------------------

E

EEZ	Exclusive Economic Zone
EGOM	Eastern Gulf of Mexico Planning Area

F

FL	Florida
FY	Fiscal Year

G

G&G	geological and geophysical
GOA	Gulf of Alaska Planning Area
GOM	Gulf of Mexico OCS Region

H

ha	hectare (2.471 acres)
----	-----------------------

I

INTERMAR	International Activities and Marine Minerals
IS	Information Section

K

KOD	Kodiak Planning Area
-----	----------------------

L

LA	Louisiana
LCI	Lower Cook Inlet
LPG	liquified petroleum gas
LWCF	Land and Water Conservation Fund

M

MAFLA	Offshore Mississippi, Alabama, Florida, and Louisiana
MATL	Mid-Atlantic Planning Area
Mcf	thousand cubic feet
MMbbl	million barrels
MMS	Minerals Management Service

N

NATL	North Atlantic Planning Area
NAV	Navarin Basin Planning Area
NALEU	North Aleutian Basin Planning Area
NCA	Northern California Planning Area
NHPF	National Historic Preservation Fund
nmi	nautical mile
NORT	Norton Basin Planning Area
NPS	National Park Service
NRA	National Resource Assessment
NRHP	National Register of Historic Places

O

OCS	outer continental shelf
OCSLA	Outer Continental Shelf Lands Act
OR	Oregon

P

PAC Pacific OCS Region
P&A plugged and abandoned
PH phosphate
PRESTO Probabilistic Resource
Estimates Offshore

R

RS Reoffering Sale

S

S sulphur
SA salt
SATL South Atlantic Planning Area
SCA Southern California Planning Area
SLA Submerged Lands Act
SPE Society of Petroleum Engineers
STGEO St. George Basin Planning Area

T

TAG Technical Analysis Group
Tcf trillion cubic feet
TQ Transition Quarter

U

U.H. undetermined hydrocarbon
U.S. United States

W

WA Washington
WA/OR Washington-Oregon Planning Area
WGOM Western Gulf of Mexico Planning
Area

Inch-Pound—Metric Conversion

Measurements in this document are reported in the unit system that reflects the most common usage. The following table provides factors for converting measurements from one system of units to another.

<i>Inch-Pound Unit</i>	<i>(multiply to obtain)</i>	<i>Metric Unit</i>
foot	0.3048	meters
mile, statute ¹	1.609	kilometers
mile, nautical (geographic) ¹	1.852	kilometers
acre	0.4047	hectares ²
barrel (petroleum, 1 bbl = 42 gal)	0.1589	cubic meters
gallon	3.785	liters
cubic foot	0.0283	cubic meters
ton, long (deadweight; 2,240 lb)	1.016	metric tons
<i>Metric Unit</i>	<i>(multiply to obtain)</i>	<i>Inch-Pound Unit</i>
meter	3.281	feet
kilometer	0.6215	miles, (statute)
kilometer	0.5399	miles, nautical (geographic)
hectare	2.471	acres
cubic meter	35.33	cubic feet
cubic meter	6.293	barrels (petroleum, 1 bbl= 42 gal)
liter	0.2642	gallons
metric ton	0.9843	tons, long (deadweight; 2,240 lb)
¹ Distances on the Federal Outer Continental Shelf and on land are measured in statute miles. Distances on offshore State lands are measured in nautical (geographic) miles. ² Hectare is an alternative name for square hectometer (hm ²) used restrictively for land and water area measurements.		

Preface

Mandate

The Outer Continental Shelf Lands Act (OCSLA [43 U.S.C. 1331, et seq.]), enacted in 1953 and amended by the OSCLA Amendments of 1978 and 1985 and the OCS Paperwork and Reporting Act of 1986 (amending 43 U.S.C. 1343, 1861, and 1865), charges the Secretary of the Interior with the responsibility for administering and managing mineral exploration and development of the outer continental shelf (OCS), as well as for conserving its natural resources.

The OCSLA as amended defines a national policy for the comprehensive management of natural gas and oil production in the offshore marine environment. The goals of this national policy are the following:

- to ensure orderly and timely exploration and development of mineral resources to meet the energy needs of the Nation;
- to provide for optimal protection of the environment concurrent with efficient and economic mineral-resource development; and
- to ensure that fair market value is received for the lands leased and the rights conveyed by the Federal Government.

To fulfill this mandate, the Department of the Interior (DOI) in 1953 established an oil and gas leasing program to make OCS lands available to private industry for mineral development. Over the last 39 years, DOI has leased more than 68 million acres of Federal land in 111 lease sales.

Operations and Safety Management

The Minerals Management Service (MMS), through the Associate Director for Offshore Minerals Management (OMM), manages the day-to-day postlease mineral exploration and development activities on the OCS. OMM, through its Regional and District offices, monitors the day-to-day operations on the OCS to ensure operator compliance with Federal regulations. Additionally, OMM, through its headquarters office of Operations and Safety Management, develops and maintains a comprehensive system of prescriptive and performance-based regulations for the production facilities and their associated pipelines that were on Federal OCS lands at the end of 1992. These regulations include

- rules for obtaining geological and geophysical data;
- minimum safety requirements for drilling and production operations;
- periodic inspection and testing requirements;
- management requirements for hydrogen sulfide and other toxic substances; and

- standards for plugging and abandoning wells, removing platforms, and clearing a work site after production is terminated.

These regulations must allow MMS to respond to such long-term trends in exploration and development as the increasing age of offshore facilities and the increasing number of small independent operators. Offshore production facilities on average are about 15 years old. In the last several years, facility removals have quadrupled and in 1992 exceeded installations for the first time. These same regulations need to allow MMS to respond to short-term events such as Hurricane Andrew, which cut a wide swath through the Gulf of Mexico in September 1992.

Additional challenges come from Executive Order 12777 (issued in 1992) which authorizes MMS under the Oil Pollution Act of 1990 (OPA 90) to regulate offshore production facilities and associated pipelines in State and Federal waters.

To deal with these challenges, MMS has sought to enhance its Civil and Criminal Penalties Program, study the implementation of a Safety and Environmental Management Program, and develop new bonding requirements for offshore operators; MMS has already implemented OPA 90 requirements for oil spill financial liability and responsibility. Additionally, MMS conducts a vigorous technology and research assessment program directed at facility safety, pollution prevention, and oil spill response technology. This includes management of the National Oil Spill Response Test Center (Ohmsett) which is now in its fourth year of operation.

As Federal OCS production reaches the end of its fourth decade in 1994 and begins its fifth, MMS will continue to create a regulatory process that ensures improved facility design, promotes worker safety, and encourages industry to operate in the safest and most environmentally sound manner possible.

Executive Summary

Leasing

In 1992, MMS held two lease offerings, one each in the Central and Western Gulf of Mexico Planning Areas. The lease areas contained a total of 9,618 tracts. Companies bid on only 2.2 percent of these tracts exposing a total of about \$86.8 million. Ultimately, MMS issued 204 leases that cover about 1 million acres and collected \$84.7 million in bonus bids. These two lease offerings brought the total of OCS acreage put up for lease since 1954 to about 955 million acres. Out of this total acreage about 7.1 percent was leased, and only 3.5 percent remained under lease at the end of 1992.

Operations

At the end of 1992, offshore oil and gas companies could conduct exploration, development and production operations on about 33 million acres of OCS lands. Producing leases number 1,711, about 24 percent of the active leases which cover 7.9 million acres. Most drilling activity was on the Gulf of Mexico OCS which contains 89 percent of active leases and 97 percent of producing leases. In 1992, operators completed drilling 467 wells. This brought the total number of wells drilled on the OCS to 31,306. About 52 percent of these wells are plugged and abandoned. Oil and natural gas production exists in the Gulf of Mexico and offshore southern California. There is also sulphur production in the Gulf of Mexico.

Operators installed 86 production facilities on the OCS in 1992. This brought the total number of offshore production facilities to 3,813. An OCS first included the removal of 122 production facilities which resulted in 1992 being the first year since the start of the OCS oil and gas program where removals exceeded installations. This continues a trend since 1986 in which the number of production facility removals has more than quadrupled. The majority of this activity is in the Gulf of Mexico. The number of production facilities offshore California at the end of 1992 remains at 23 with no installations since 1989, and activity being confined to the installation of two topsides to the jackets installed in 1989. These two platforms, Heather and Heritage, should be completely installed during 1993.

There were 2,804 bbl of oil spilled during OCS operations in 1992. This amounts to approximately 0.001 percent of OCS production. Most of the oil spilled was a result of the destruction Hurricane Andrew left in its wake in August 1992. About 2,500 bbl of the spilled oil resulted from hurricane damage. There were three drilling blowouts. One blowout spilled 100 bbl of oil while the others each spilled less than 1 bbl.

Production

Federal offshore leases have produced 9.3 billion barrels of oil and 98.9 trillion cubic feet of natural gas over the history of the program. In 1992, OCS production was 12.9 percent of total U.S. oil production. When compared to State oil production, Federal OCS lands rank

fifth behind Texas, Alaska, Louisiana, and California. In 1992, OCS natural gas production was 26.3 percent of total U.S. production. When compared to State natural gas production, Federal OCS lands rank third behind Texas and Louisiana. Federal leases offshore Louisiana produced about 80 percent and 70 percent of OCS crude oil and natural gas respectively. Federal leases offshore Alabama began producing natural gas for the first time in 1992.

In 1992, there were 116 producers of crude oil on the OCS. The top 20 producers, about 17 percent, produced about 33 percent of OCS crude oil. In contrast, the top 20 natural gas producers out of 117 accounted for about 46 percent of OCS natural gas production.

Revenue

Revenue from Federal OCS production comes from bonuses paid at lease sales, annual rent on leases, and royalties on the resources brought to market by producers. In 1992, total revenue generated from extraction of Federal OCS resources totaled about \$2.6 billion. About 56 percent of this money went directly to the U.S. Treasury. The Land and Water Conservation Fund and the National Historic Preservation Fund, both administered by the National Park Service, received about 40 percent of 1992 OCS revenue. These funds provide grants to other Federal agencies and States for conservation and historic preservation projects. Seven coastal States received the remainder, about 3 percent, of OCS revenue.

About This Document

All information in this report refers to what was in effect on December 31, 1992, unless otherwise noted. This edition includes corrections to data from previous editions that are the result of internal audits. Therefore, the numbers in tables and figures within this report supersede earlier editions of *Federal Offshore Statistics* (FOS).

All words appearing in boldface within the text are defined in the glossary (p. 160). All abbreviations and acronyms are defined in the Abbreviations and Acronyms list (p. ix). A number in parenthesis denotes credits for prior-year adjustments; these numbers are subtracted when generating total or cumulative numbers. Conversion of volumetric data (e.g., production and reserves) for natural gas figures to a standard 14.73 psi pressure base is made where necessary.

Unless otherwise noted, MMS is the source for all information contained in this report. More detailed information is available on request from the Information Section, MMS's regional offices, or MMS's Royalty Management Program at the following addresses:

Atlantic OCS Region
Public Affairs
381 Elden St., MS 6000
Herndon, VA 22070-4817

Gulf of Mexico OCS Region
Public Affairs
1201 Elmwood Park Blvd., MS 5000
New Orleans, LA 70123-2394

Pacific OCS Region
Public Affairs
770 Paseo Camarillo, MS 7000
Camarillo, CA 93010-6064

Alaska OCS Region
Public Affairs
949 East 36th St., Rm. 603, MS 8000
Anchorage, AK 99508-4302

Royalty Management Program
Public Affairs
P.O. Box 25165, MS 3000
Denver, CO 80225

All information in FOS 1992 is available on the OSI Bulletin Board System (BBS) in several formats (ASCII, WordPerfect-compatible, or Lotus-compatible). The BBS uses the standard communications settings of N, 8, 1 and can accept calls at 19200 baud or below. To use the BBS, dial (703) 787-1181. Follow the prompts on the screen for access. If you have questions or need more information, call the System Operator at (703) 787-1043.

Readers can also receive FOS 1992 in ASCII format on computer diskette by sending a written request and a blank diskette (3½" or 5¼") to the following address:

Minerals Management Service
381 Elden St., MS 4810
Herndon, VA 22070-4817
(703) 787-1032
(703) 787-1010 FAX

I. Federal Offshore Lands

The Submerged Lands Act (SLA) of 1953 grants the States rights to the natural resources of the submerged lands from the coastline to no more than 3 nautical miles (5.6 km) into the Atlantic, Pacific, and Arctic Oceans, and the Gulf of Mexico except the coastal waters of Texas and western Florida where State jurisdiction extends from the coastline to no more than 3 marine leagues (14.5 km) into the Gulf of Mexico. The SLA also reaffirmed the Federal claim to the **outer continental shelf (OCS)**, which consists of those submerged lands seaward of State jurisdiction.

The SLA led to the passage of the Outer Continental Shelf Lands Act in 1954 (OCSLA). The OCSLA provides for Federal jurisdiction over the submerged lands of the OCS. Additionally, it authorizes the Secretary of the Interior to lease those lands for mineral development. Note that the legal OCS includes submerged lands that are not part of the geological OCS.

On March 10, 1983, U.S. President Ronald Reagan signed Proclamation 5030 (3 CFR 22) which set up the U.S. **Exclusive Economic Zone (EEZ)**. The EEZ consists of those areas adjoining the territorial sea of the United States, the Commonwealth of Puerto Rico, the Commonwealth of Northern Mariana Islands, and U.S. overseas territories and possessions. The EEZ extends up to 370 km (200 nmi) from the coastline. About 15 percent of this area lies on the geologic continental shelf and is shallower than 200 m (656 ft). Another 10 to 15 percent lies on the continental slope and rise, between 200 and 2,000 m (656 and 6,562 ft) water depth. The remaining 70 – 75 percent is abyssal plain where water depths reach 3,000 – 5,000 m (9,843 – 16,404 ft).

The Oil Pollution Act of 1990 (OPA 90) gave the Secretary of the Interior authority over offshore facilities and associated pipelines with the exception of deepwater ports, for State and Federal offshore waters. The Secretary in turn delegated this OPA 90 authority to MMS. The resulting tasks for MMS include the following:

- enforcing spill prevention measures
- reviewing spill response plans
- inspecting spill containment and cleanup equipment
- reviewing spill financial liability limits, and
- certifying spill financial responsibility

Table 1 shows the areal extent of both the State offshore waters and the Federal OCS. The Minerals Management Service divides the Federal waters of the OCS into four regions: the Atlantic OCS, the Gulf of Mexico OCS, the Pacific OCS, and the Alaska OCS. These regions are in turn divided into planning areas, as shown in figure 1. Private industry leases development rights on the OCS at lease offerings held in each planning area. Table 2 gives the areal extent of the EEZ.

Table 1. Areal Extent of State and Federal Submerged Lands in U.S. Offshore Areas

<i>U.S. Offshore/Planning Area</i>	<i>State Offshore (Acres)</i>	<i>Federal OCS (Acres)</i>	<i>Totals (Acres)</i>
Alaska	14,656,000	945,580,589	960,236,589
Aleutian Arc	N/A	161,300,000	N/A
Aleutian Basin	N/A	47,400,000	N/A
Beaufort Sea	N/A	62,345,883	N/A
Bowers Basin	N/A	90,300,000	N/A
Chukchi Sea	N/A	41,474,363	N/A
Cook Inlet/Shelikof Strait	N/A	5,355,827	N/A
Gulf of Alaska	N/A	134,078,219	N/A
Hope Basin	N/A	12,816,019	N/A
Kodiak	N/A	88,985,055	N/A
Navarin Basin	N/A	37,107,431	N/A
North Aleutian Basin	N/A	32,452,522	N/A
Norton Basin	N/A	25,005,234	N/A
Shumagin	N/A	83,162,115	N/A
St. George Basin	N/A	70,238,345	N/A
St. Matthew-Hall	N/A	53,559,576	N/A
Atlantic Coast States	4,544,000	255,356,910	259,900,910
North Atlantic	N/A	48,770,485	N/A
Mid-Atlantic	N/A	82,180,484	N/A
South Atlantic	N/A	114,223,681	N/A
Straits of Florida	N/A	10,182,260	N/A
Gulf Coast States	8,640,000	159,276,572	167,916,572
Eastern Gulf of Mexico	N/A	75,594,026	N/A
Central Gulf of Mexico	N/A	47,777,241	N/A
Western Gulf of Mexico	N/A	35,905,305	N/A
Pacific Coast States	2,880,000	121,939,940	124,819,940
Northern California	N/A	28,525,517	N/A
Central California	N/A	15,000,443	N/A
Southern California	N/A	30,502,502	N/A
Washington-Oregon	N/A	47,911,478	N/A
Total	30,720,000	1,482,154,011	1,513,874,01

NOTE: Acreages for the Aleutian Arc, Aleutian Basin, and Bowers Basin Planning Areas are estimates.

Table 2. Areal Extent of the U.S. Exclusive Economic Zone (EEZ)

<i>Offshore Areas</i>	<i>EEZ (Acres)</i>	<i>EEZ (nm²)</i>
Atlantic Coast	215,401,075	253,800
Gulf of Mexico	158,028,685	186,200
Pacific Coast	200,973,107	236,800
Alaska	806,268,800	950,000
Hawaii	589,849,280	695,000
<i>Subtotal (50 States)</i>	<u>1,970,520,947</u>	<u>2,321,800</u>
Commonwealth of Puerto Rico and the U.S. Virgin Islands	49,564,314	58,400
Guam	51,261,722	60,400
American Samoa	105,918,259	124,800
Other U.S. Territories and Possessions	486,646,874	573,400
<i>Subtotal (Territories and Possessions)</i>	<u>693,391,168</u>	<u>817,000</u>
U.S. Total	2,663,912,115	3,138,800
Commonwealth of the Northern Mariana Islands	189,939,955	223,800
Total EEZ	2,853,852,070	3,362,600

NOTE: Areal numbers in square nautical miles are rounded off to the nearest 100, and then converted to acres. Therefore, the numbers used herein should be treated as estimates of EEZ acreage.

SOURCE: US Geological Survey/National Oceanic and Atmospheric Administration Joint Office of Mapping and Research

Activity by OCS Region and Planning Area 1992-1997

Region: Planning Area	Consider Leasing*	Region: Planning Area	Consider Leasing*
Atlantic Region		Alaska Region	
North Atlantic	—	Gulf of Alaska	1995
Mid-/South Atlantic	1996	Yakutat	—
Straits of Florida	—	Middleton Island	—
		Kodiak	—
Gulf of Mexico Region		Cook Inlet/Shellkof Strait	1994
Eastern Gulf		Shumagin	—
North of 26°	1995	North Aleutian Basin	—
South of 26°	—	Aleutian Arc	—
Central Gulf	Annually	St. George Basin	1996
Western Gulf	Annually	Bowers Basin	—
		Aleutian Basin	—
Pacific Region		Navarin Basin	—
Southern California	—	St. Matthew-Hall	—
Central California	—	Norton Basin	—
Northern California	—	Hope Basin	1997
Washington-Oregon	—	Chukchi Sea	1996
		Beaufort Sea	1995

*Actual dates depend upon the outcome of the Area Evaluation and Decision Process

Figure 1. Map of Federal Offshore Regions in the OCS Natural Gas and Oil Resource Management Comprehensive Program: 1992-97.

II. Offshore Leasing Activity and Status

The OCSLA as amended authorizes the Secretary of the Interior to lease OCS lands for mineral development. Between 1954 and 1992 the U.S. Department of Interior offered more than 955.5 million OCS acres (386.7 million ha) for lease in 111 lease sales. In those 111 lease sales, the oil and gas industry paid about \$56.3 billion in bonuses to lease 68.2 million acres (27.6 million ha).

Leasing activity in 1992 included two sales in the Gulf of Mexico (GOM) Region. Sales 139 and 141 in the Central and Western GOM, respectively, attracted 277 bids resulting in 204 leases. Total bonuses for these two sales amounted to \$84.8 million. The average bonus per acre leased was \$78.45 for sale 139 and \$94.49 for sale 141.

Leasing activity will continue with 17 lease sales in portions of 11 planning areas between 1992 and 1997 under MMS's Comprehensive Program as approved in July 1992. The lease sale schedule is shown in figure 1. For the remainder of the program, annual lease sales are scheduled for the Central and Western GOM planning areas. Also, one sale has been scheduled for each of these planning areas: Gulf of Alaska, Cook Inlet/Shelikof Strait, St. George Basin, Hope Basin, Chukchi Sea, Beaufort Sea, Eastern Gulf, and Mid/South Atlantic.

Data on individual lease sales are shown in table 3. Table 4 gives a statistical summary of lease sale information by year and figure 2 shows a comparison of acres leased to bonuses paid by year. The GOM is the most successful of the OCS areas. Through 1992, GOM lease sales produced 80.2 percent of total leases (see figure 3) and 76.4 percent of the bonus monies. Table 5 provides a regional breakdown of leasing acreage and status. At the end of 1992, there were 33 million acres (13.4 million ha) in active lease status.

👉 This page is intentionally blank 👈

Table 3. Statistical Summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992

<i>Bid Opening</i>			<i>Sale Offering</i>		<i>Bids Made</i>			
<i>Sale</i>	<i>Date</i>	<i>Area</i>	<i>Tracts</i>	<i>Acres</i>	<i>Number</i>	<i>Tracts</i>	<i>Acres</i>	<i>Total Exposed (\$)</i>
1	10/13/54	LA	199	748,819	336	90	394,721	302,924,834
1S	10/13/54	LA	108	523,630	5	5	25,000	1,233,500
2	11/09/54	TX	38	111,789	90	19	67,149	73,801,896
3	07/12/55	TX, LA	210	674,095	384	121	402,567	323,240,052
5	05/26/59	FL	80	458,000	23	23	132,480	1,711,872
6	08/11/59	LA	38	81,813	56	28	62,967	174,411,628
7	02/24/60	TX, LA	385	1,610,254	444	173	813,663	575,175,650
8SA	05/19/60	LA	10	22,085	1	1	2,500	75,250
PH ¹	12/15/61	SCA	(16)	(80,640)	(6)	(6)	(30,240)	(122,000)
9	03/13/62	LA	401	1,808,276	538	212	981,407	314,218,540
10	03/16/62	TX, LA	410	1,875,984	666	210	977,092	605,357,718
11	10/09/62	LA	19	33,855	26	14	24,858	66,265,290
P-1	05/14/63	C & NCA	129	669,777	70	58	312,975	13,989,953
12	04/28/64	LA	28	34,028	69	23	32,671	93,850,051
P-2	10/01/64	OR, WA	196	1,090,074	222	101	580,853	53,579,753
13S	12/14/65	TX	658	947,520	113	50	72,000	56,324,364
14	03/29/66	LA	18	35,993	64	18	35,993	275,384,739
15	10/18/66	LA	52	227,898	79	32	134,717	185,214,816
P-3	12/15/66	SCA	1	1,995	7	1	1,995	89,937,020
16	06/13/67	LA	206	971,489	743	172	812,202	1,627,749,269
17SA	09/05/67	LA	8	16,995	1	1	2,495	30,564
P-4	02/06/68	SCA	110	540,609	164	75	383,341	1,293,601,113
18	05/21/68	TX	169	728,551	556	141	666,631	1,620,393,212
19	11/19/68	LA	26	46,824	38	21	40,262	398,430,736
19A	01/14/69	LA	38	96,389	40	26	61,628	71,036,938
20S	05/13/69	LA	120	165,605	43	38	50,880	4,070,549
19B	12/16/69	LA	27	93,764	58	16	60,153	230,460,743
21	07/21/70	LA	34	73,360	59	21	50,889	163,451,158
22	12/15/70	LA	127	593,485	1,043	127	593,485	2,877,429,559
23	11/04/71	LA	18	55,872	33	13	42,222	172,735,981
24	09/12/72	LA	78	366,682	324	74	346,693	1,599,155,464
25	12/19/72	LA	132	604,029	690	119	548,374	6,191,018,227
26	06/19/73	TX, LA	129	697,643	551	104	566,573	6,248,160,989
32	12/20/73	MAFLA	147	817,297	373	89	453,917	3,404,892,968
33	03/28/74	LA	206	930,918	402	114	522,397	6,474,003,574
34	05/29/74	TX	245	1,355,678	352	123	680,335	3,354,292,556
S1	07/30/74	TX, LA	258	1,298,739	57	49	249,704	88,799,354
² 36	10/16/74	LA	297	1,421,546	387	157	733,927	2,521,756,919
<i>Subtotal (1954-74)</i>			<u>5,371</u>	<u>21,912,000</u>	<u>9,113</u>	<u>2,665</u>	<u>11,994,956</u>	<u>41,548,288,799</u>

Footnotes at end of table.

Table 3. Statistical Summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992 — *continued*

Leases Issued			High-Bid Bonuses		High Bids Rejected		Average Bid per Acre (\$)	First Year Rentals (\$)
Sale	Tracts	Acres	Submitted (\$)	Accepted (\$)	No.	Amount (\$)		
1	90	394,721	116,378,476	116,378,476	0	0	294.84	1,184,175
1S	5	25,000	1,233,500	1,233,500	0	0	49.34	50,000
2	19	67,149	23,357,029	23,357,029	0	0	347.84	201,450
3	121	402,567	108,528,726	108,528,726	0	0	269.59	1,207,722
5	23	132,480	1,711,872	1,711,872	0	0	12.92	397,440
6	19	38,820	90,286,693	88,035,120	9	2,251,573	2,267.28	388,200
7	147	704,526	285,180,648	282,641,815	26	2,538,833	401.18	2,113,599
8SA	1	2,500	75,250	75,250	0	0	30.10	7,500
PH	(6)	(30,240)	(122,000)	(122,000)	0	0	N/A	N/A
9	206	956,407	177,745,105	177,260,305	6	484,800	185.34	2,855,433
10	205	956,592	268,724,090	268,333,397	5	390,693	280.51	2,869,638
11	9	16,178	44,399,399	43,887,359	5	512,040	2,712.79	161,780
P-1	57	312,945	12,807,587	12,807,337	1	250	40.93	938,838
12	23	32,671	60,340,626	60,340,626	0	0	1,846.90	326,780
P-2	101	580,853	35,533,701	35,533,701	0	0	61.18	1,742,562
13S	50	72,000	33,740,309	33,740,309	0	0	468.62	216,000
14	17	35,056	89,054,406	88,845,963	1	208,443	2,534.44	350,570
15	24	104,717	101,730,216	99,164,930	8	2,565,286	946.98	523,600
P-3	1	1,995	21,189,000	21,189,000	0	0	10,618.50	9,980
16	158	744,456	511,957,288	510,079,178	14	1,878,110	685.17	2,233,458
17SA	1	2,495	30,564	30,564	0	0	12.25	7,485
P-4	71	363,181	603,204,284	602,719,262	4	485,022	1,659.56	1,089,543
18	110	541,304	602,475,717	593,899,046	31	8,576,671	1,097.16	1,623,915
19	16	29,679	150,482,797	149,868,789	5	614,008	5,049.59	296,820
19A	20	48,504	45,588,052	44,037,339	6	1,550,713	907.90	485,050
20S	4	5,625	3,678,045	715,150	34	2,962,895	127.14	16,875
19B	16	60,153	66,908,196	66,908,196	0	0	1,112.30	601,550
21	19	44,642	98,101,013	97,769,013	2	332,000	2,190.07	446,420
22	119	553,898	851,388,599	847,295,760	8	4,092,839	1,529.70	1,661,694
23	11	37,222	96,491,023	96,304,523	2	186,500	2,587.29	372,230
24	62	290,321	586,297,925	585,827,925	12	470,000	2,017.87	870,996
25	116	535,874	1,673,054,912	1,665,519,631	3	7,535,281	3,108.04	1,607,661
26	100	547,173	1,598,590,620	1,591,397,380	4	7,193,240	2,908.40	1,641,519
32	87	485,397	1,491,617,119	1,491,065,231	2	551,888	3,071.85	1,456,197
33	91	421,218	2,175,095,514	2,092,510,854	23	82,584,660	4,967.76	1,263,675
34	102	565,112	1,502,429,426	1,471,851,831	21	30,577,595	2,604.53	1,695,348
S1	19	100,241	76,617,645	30,236,800	30	46,380,845	301.64	300,729
36	144	675,587	1,445,175,340	1,428,261,330	13	16,914,010	N/A	2,026,812
	<u>2,384</u>	<u>10,889,259</u>	<u>15,051,200,712</u>	<u>14,829,362,517</u>	<u>275</u>	<u>221,838,195</u>	<u>N/A</u>	<u>35,243,244</u>

Footnotes at end of table.

Table 3. Statistical Summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992 — *continued*

<i>Bid Opening</i>			<i>Sale Offering</i>		<i>Bids Made</i>			<i>Total Exposed (\$)</i>
<i>Sale</i>	<i>Date</i>	<i>Area</i>	<i>Tracts</i>	<i>Acres</i>	<i>Number</i>	<i>Tracts</i>	<i>Acres</i>	
37	02/04/75	TX	515	2,870,344	281	143	796,367	484,721,874
38	05/28/75	TX, LA	283	1,346,432	191	102	486,327	402,752,355
38A	07/29/75	TX, LA	345	1,772,958	179	80	408,009	317,001,333
35	12/11/75	SCA	231	1,257,593	166	70	384,540	901,960,364
41	02/18/76	GOM	132	687,604	81	41	191,718	428,003,629
39	04/13/76	GOA	189	1,008,500	244	81	437,524	1,732,170,868
40	08/17/76	MATL	154	876,750	410	101	575,012	3,513,411,802
44	11/16/76	TX, LA	61	254,488	117	48	201,825	833,015,950
47	06/23/77	GOM	223	1,074,536	424	152	739,326	2,928,091,214
CI	10/27/77	LCI	135	768,580	240	91	518,080	677,075,681
43	03/28/78	SATL	224	1,275,273	99	57	324,511	150,927,700
45	04/25/78	TX, LA	145	709,727	283	101	490,752	1,559,345,260
65	10/31/78	GOM	89	511,709	62	35	201,295	87,592,568
51	12/19/78	TX, LA	128	643,987	288	88	449,691	2,355,263,307
49	02/28/79	MATL	109	620,557	74	44	250,500	66,005,881
48	06/29/79	SCA	148	792,845	112	55	294,018	994,683,701
58	07/31/79	GOM	123	577,517	316	88	424,030	3,333,990,620
58A	11/27/79	GOM	124	588,601	322	96	450,914	4,683,195,907
BF	12/11/79	BF	46	172,323	62	25	88,037	945,445,102
42	12/18/79	NATL	116	660,409	189	73	415,602	1,270,789,890
A62	09/30/80	GOM	192	909,575	506	147	706,042	7,119,464,691
55	10/21/80	GOA	210	1,195,569	64	37	210,648	197,417,469
62	11/18/80	GOM	81	458,308	268	74	420,058	3,500,570,271
³ 53	05/28/81	SCA	111	603,613	301	81	432,817	4,885,810,689
RS-1	06/30/81	AK	175	996,327	7	5	28,466	5,582,362
A66	07/21/81	GOM	212	1,077,913	419	162	829,900	5,227,548,535
56	08/04/81	SATL	285	1,622,557	120	54	307,432	561,050,365
60	09/29/81	LCI	153	858,247	15	13	73,158	4,697,309
66	10/20/81	GOM	209	1,081,364	233	107	532,041	2,402,400,552
59	12/08/81	MATL	253	1,440,376	240	98	557,932	578,952,000
67	02/09/82	GOM	234	1,219,826	290	137	695,749	2,683,699,843
68	06/11/82	SCA	140	716,840	66	35	176,253	210,486,278
RS-2	08/05/82	ATL, CA, AK	554	3,142,068	48	40	227,727	14,439,195
71	10/13/82	BF (Diapir)	338	1,825,770	252	125	683,026	4,589,972,518
⁴ 69-1	11/17/82	GOM	144	732,570	151	67	339,999	1,185,091,610
<i>Subtotal (1975-82)</i>			<u>6,811</u>	<u>36,351,705</u>	<u>7,120</u>	<u>2,753</u>	<u>14,349,363</u>	<u>60,832,628,694</u>

Footnotes at end of table.

Table 3. Statistical Summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992 — *continued*

<i>Leases Issued</i>			<i>High-Bid Bonuses</i>		<i>High Bids Rejected</i>		<i>Average Bid per Acre (\$)</i>	<i>First-Year Rentals (\$)</i>
<i>Sale</i>	<i>Tracts</i>	<i>Acres</i>	<i>Submitted (\$)</i>	<i>Accepted (\$)</i>	<i>No.</i>	<i>Amount (\$)</i>		
37	113	626,585	300,632,667	274,690,955	30	25,941,712	438.39	1,879,761
38	86	406,942	250,681,156	232,916,050	16	17,765,106	572.36	1,220,856
38A	66	336,301	171,511,620	163,214,006	14	8,297,614	485.32	1,008,906
35	56	310,049	438,190,780	417,312,141	14	20,878,639	1,345.96	930,147
41	34	161,286	183,498,244	175,976,493	7	7,521,751	1,091.09	483,867
39	76	409,058	571,871,587	559,836,587	5	12,035,000	1,368.60	1,226,718
40	93	529,466	1,135,802,179	1,127,936,425	8	7,865,754	2,130.33	1,714,176
44	43	178,127	381,911,757	379,148,962	5	2,762,795	2,128.53	534,396
47	124	605,427	1,214,002,429	1,170,093,432	28	43,908,997	1,932.68	1,816,302
CI	87	495,307	400,319,543	398,471,313	4	1,848,230	804.49	1,603,584
43	43	244,807	109,695,692	100,743,443	14	8,952,249	411.52	792,576
45	90	438,756	767,407,369	733,656,893	11	33,750,476	1,672.13	1,316,283
65	35	201,295	61,176,730	61,176,730	0	0	303.92	603,885
51	81	412,416	884,589,799	871,464,998	7	13,124,801	2,113.07	1,237,263
49	39	222,034	41,720,618	40,001,631	5	1,718,987	180.16	718,848
48	54	288,260	573,956,402	572,825,418	1	1,130,984	1,987.18	867,489
58	81	391,183	1,261,358,089	1,247,489,022	7	13,869,067	3,189.02	1,173,570
58A	90	421,519	1,932,891,290	1,913,337,938	6	19,556,352	4,539.15	1,264,590
BF	24	85,776	491,728,137	488,691,138	1	3,037,000	5,697.27	277,808
42	63	358,671	827,832,854	816,516,546	10	11,316,308	2,276.51	1,161,216
A62	116	551,643	2,805,524,393	2,676,927,673	31	128,596,720	4,852.65	1,654,962
55	35	199,261	117,550,113	109,751,073	2	7,799,040	550.79	645,120
62	67	383,323	1,436,448,959	1,417,961,511	7	18,487,448	3,699.12	1,149,969
53	60	320,567	2,277,856,761	2,088,881,824	21	24,648,000	6,516.21	1,037,904
RS-1	1	5,694	3,091,738	170,496	4	2,921,242	29.95	18,432
A66	156	799,899	2,666,828,352	2,649,628,752	6	17,199,600	3,312.45	2,399,736
56	47	267,580	363,829,954	342,766,174	7	21,063,780	1,280.99	866,304
60	13	73,158	4,405,899	4,405,899	0	0	60.23	236,856
66	102	508,287	1,280,983,917	1,243,468,752	5	37,515,165	2,446.39	1,524,903
59	51	290,352	424,927,000	323,659,000	47	101,268,000	1,114.71	940,032
67	115	590,265	1,251,793,459	1,193,654,719	22	58,138,740	2,022.29	1,770,795
68	29	147,066	132,252,632	117,875,281	6	14,377,351	801.51	443,913
RS-2	36	204,955	12,310,706	11,149,450	4	1,161,256	54.40	663,552
71	121	662,861	2,067,604,786	2,055,632,336	4	11,972,450	3,101.15	2,146,112
69-1	56	281,213	634,919,980	609,178,223	11	25,741,757	2,166.25	843,657
	<u>2,383</u>	<u>12,409,389</u>	<u>27,481,110,592</u>	<u>26,590,611,283</u>	<u>370</u>	<u>726,172,371</u>	<u>N/A</u>	<u>38,174,488</u>

Footnotes at end of table.

Table 3. Statistical Summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992 — continued

<i>Bid Opening</i>			<i>Sale Offering</i>		<i>Bids Made</i>			
<i>Sale</i>	<i>Date</i>	<i>Area</i>	<i>Tracts</i>	<i>Acres</i>	<i>Number</i>	<i>Tracts</i>	<i>Acres</i>	<i>Total Exposed (\$)</i>
69-2	03/08/83	GOM	125	665,478	20	13	68,106	48,755,129
57	03/15/83	NORT	418	2,379,751	98	64	364,364	371,803,984
70	04/12/83	STGEO	479	2,688,787	150	97	546,621	547,731,283
76	04/26/83	MATL	4,050	22,664,991	53	40	227,727	86,822,680
72	05/25/83	CGOM	7,050	37,867,762	1,015	656	3,249,199	4,582,847,288
78	07/26/83	SATL	3,582	20,156,426	12	11	62,625	14,562,040
⁵ 74	08/24/83	WGOM	5,848	32,620,248	773	436	2,410,809	2,350,359,669
⁶ 73	11/30/83	SCA	137	768,341	14	8	43,801	24,045,646
79	01/05/84	EGOM	8,868	50,631,513	226	156	897,786	500,261,361
⁷ 83	04/17/84	NAV	5,036	28,048,995	425	186	1,058,932	1,148,701,653
81	04/24/84	CGOM	6,502	34,743,780	793	529	2,650,070	2,126,776,904
84	07/18/84	WGOM	5,446	30,038,593	593	402	2,173,704	1,263,576,675
⁸ 87	08/22/84	BF (Diapir)	1,419	7,773,447	432	232	1,233,573	1,365,968,674
80	10/17/84	CA	657	3,147,352	30	25	125,100	73,163,686
98	04/22/85	CGOM	4,531	24,006,157	644	444	2,241,597	1,566,926,725
102	08/14/85	WGOM	4,879	27,199,074	265	210	1,156,842	519,116,036
⁹ 94	12/18/85	EGOM	6,344	35,823,478	114	82	450,259	155,241,798
104	04/30/86	CGOM	5,837	31,382,152	129	114	569,418	164,135,937
105	08/27/86	WGOM	4,887	27,287,952	52	41	229,613	69,498,490
110	04/22/87	CGOM	5,881	31,818,472	385	313	1,636,330	341,540,856
112	08/12/87	WGOM	5,045	27,943,606	519	367	2,021,096	310,835,932
¹⁰ S/S	02/24/88	CGOM	51	593,971	20	14	142,685	20,792,841
¹¹ 97	03/16/88	BF	3,344	18,277,806	276	218	1,198,099	139,194,672
113	03/30/88	CGOM	6,229	33,580,661	931	684	3,523,206	592,797,316
109	05/25/88	CHK	4,566	25,631,122	653	351	1,982,565	666,232,384
115	08/31/88	WGOM	5,053	27,911,790	370	270	1,499,164	188,974,839
¹² 92	10/11/88	NALEU	990	5,603,472	31	23	121,754	114,067,500
116-1	11/16/88	EGOM	8,149	46,417,392	135	115	657,348	47,559,746
118	03/15/89	CGOM	5,970	32,123,675	821	591	2,972,567	477,045,923
122	08/23/89	WGOM	5,043	27,973,997	676	488	2,759,424	382,977,309
123	03/21/90	CGOM	5,667	30,493,461	840	538	2,671,597	589,547,008
125	08/22/90	WGOM	4,792	26,295,305	465	307	1,699,507	240,912,740
131	03/27/91	CGOM	5,420	29,127,324	637	464	2,265,799	320,537,387
124	06/26/91	BF	3,417	18,556,976	60	57	277,004	17,301,819
135	08/21/91	WGOM	4,287	23,616,034	182	142	792,546	76,743,875
126	08/28/91	CHK	3,476	18,987,591	30	28	159,213	7,405,804
139	05/13/92	CGOM	5,213	28,152,199	196	151	727,186	56,195,552
¹³ 141	08/19/92	WGOM	4,405	24,227,848	81	61	333,600	30,619,313
Subtotal (1983-92)			<u>163,093</u>	<u>897,226,980</u>	<u>13,146</u>	<u>8,928</u>	<u>47,200,790</u>	<u>21,601,378,472</u>
Total (1954-92)			175,275	955,490,685	29,379	14,346	73,545,109	123,982,295,965

Footnotes at end of table.

Table 3. Statistical Summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992 — continued

Leases Issued			High-Bid Bonus		High Bids Rejected		Average Bid per Acre (\$)	First-Year Rentals (\$)
Sale	Tracts	Acres	Submitted (\$)	Accepted (\$)	No.	Amount (\$)		
69-2	11	58,117	39,741,340	37,570,900	2	2,170,440	646.44	174,360
57	59	335,898	325,267,372	317,873,372	5	7,394,000	946.34	1,087,488
70	96	540,917	427,343,830	426,458,830	1	885,000	788.40	1,751,248
76	37	210,648	71,141,240	68,410,240	3	2,731,000	324.77	681,984
72	623	3,089,812	3,469,214,969	3,367,606,134	33	101,608,835	1,089.89	9,269,616
78	11	62,625	13,362,040	13,362,040	0	0	213.37	202,752
74	406	2,246,005	1,549,262,300	1,501,712,517	30	47,549,783	668.62	6,738,015
73	8	43,801	16,022,336	16,022,336	0	0	365.80	141,808
79	156	897,786	310,586,261	310,586,261	0	0	345.95	2,693,358
83	163	927,989	631,228,331	516,317,331	23	114,911,000	556.38	2,784,366
81	453	2,278,129	1,446,584,927	1,323,036,649	76	123,548,278	580.76	6,834,537
84	361	1,949,186	945,717,312	844,850,488	41	100,866,824	433.44	5,847,639
87	231	1,230,456	877,131,327	871,964,327	1	5,167,000	708.63	3,910,184
80	23	114,363	66,231,426	62,121,252	2	4,110,174	543.20	347,157
98	409	2,076,907	1,147,434,447	1,079,377,760	35	68,056,687	519.70	6,230,829
102	195	1,075,188	391,137,536	359,175,656	15	31,961,880	334.06	3,225,597
94	77	421,459	124,022,098	119,097,298	0	0	282.58	1,264,392
104	101	504,806	146,367,757	130,276,757	13	16,091,000	258.07	1,514,442
105	41	229,612	56,817,990	56,817,990	0	0	247.45	688,839
110	293	1,539,626	290,554,484	262,971,486	20	27,582,998	170.80	4,618,941
112	347	1,908,183	242,796,331	234,275,520	20	8,520,811	122.77	5,724,597
S/S	14	142,685	15,149,327	15,149,327	0	0	106.17	428,058
97	202	1,110,764	118,574,936	115,261,636	0	0	103.76	3,596,192
113	662	3,416,716	404,612,164	388,730,457	22	15,881,707	113.77	10,250,277
109	350	1,976,912	478,177,948	478,032,631	1	145,317	241.81	6,400,280
115	255	1,412,764	130,785,464	125,352,889	13	4,932,574	88.73	4,238,340
92	23	121,754	95,439,500	95,439,500	0	0	783.87	394,208
116-1	115	657,348	41,582,298	41,582,298	0	0	63.26	1,972,047
118	574	2,892,487	397,513,998	388,393,077	17	9,120,921	134.28	8,677,605
122	475	2,688,380	263,753,883	257,224,333	13	6,529,550	95.68	8,065,182
123	525	2,604,259	427,413,211	424,334,314	13	3,078,897	162.94	7,812,927
125	300	1,659,187	162,442,246	159,967,604	6	2,333,442	96.41	4,977,606
131	456	2,224,284	259,859,788	256,286,186	8	3,573,602	115.22	6,673,026
124	57	277,004	16,807,025	16,807,025	0	0	60.67	896,896
135	135	753,059	62,646,526	58,646,034	7	4,000,492	77.88	2,259,195
126	28	159,213	7,117,304	7,117,304	0	0	44.70	515,464
139	144	693,079	65,300,864	54,373,022	7	1,822,530	78.45	2,079,279
141	60	327,840	36,718,223	30,411,953	1	207,360	94.49	983,529
	<u>8,476</u>	<u>48,59,278</u>	<u>15,571,350,359</u>	<u>14,823,994,734</u>	<u>428</u>	<u>714,782,102</u>	<u>N/A</u>	<u>135,952,260</u>
	13,243	68,157,926	58,103,661,663	56,252,968,534	1,073	1,662,792,668	N/A	209,369,992

Footnotes at end of table.

Table 3. Statistical summary of Federal Offshore Lease Offerings held by DOI from October 1954 through December 1992 — *continued*

- ¹ Only the offering and bidding data for this phosphate lease sale are totaled here since the awarded leases were subsequently terminated and all monies were returned to the bidder/lessees.
- ² Sale 36 had a two-part bidding system: 10 tracts (51,515 acres) were offered in a royalty bidding system, 287 tracts (1,370,031 acres) were offered in a high bid-bonus system. Of these, 8 tracts (40,755 acres) were bid and let on the royalty system for an average \$25 per acre (\$1,018,875 in bonuses); another 149 tracts (693,172 acres) were bid on the high-bid system with 136 let (634,832 acres) for an average \$2,248.22 per acre (\$1,427,242,455 in bonuses).
- ³ In Sale 53 (May 1981), Chevron USA and Phillips Petroleum jointly paid the highest per acre bid so far, of \$65,014.16 on Lease No. OCS-P 0450 in the Santa Maria Basin. Altogether the tract's 5,131 acres brought in \$333,596,200 of the total accepted bonus payments of \$2,088,881,824. In the same sale, high bidders afterwards relinquished leasing rights to 12 other tracts, thus forfeiting one-fifth or \$41,081,734 of their \$205,408,672 in bids. Bids for 9 other tracts were rejected as insufficient. The average bid per acre was \$6,516.21 on 320,567 acres. As adjusted, totals for this sale also reflect leases for 5 tracts issued in 1984, previously delayed by litigation.
- ⁴ The 1982 data for 5 oil and gas lease sales account for the first part of Sale 69 as 69-1 and the 1983 data account for the second part as 69-2. Thus, there were 8 bid openings but only 7 offshore oil and gas lease sales recorded for 1983.
- ⁵ In Sale 74 (August 1983), two of the high bidders failed to execute leases on time and had to forfeit their one-fifth bonus deposits.
- ⁶ In Sale 73 (November 1983), litigation delayed the scheduled bid opening until December of that year.
- ⁷ In Sale 83, bids were received on 17 tracts that were in an international dispute with the Soviet Union. On December 4, 1988, the Federal Government decided that it was not in the United States' best interest to accept the bids and rejected all bids in this disputed area. The 17 tracts on 96,784 acres for \$108,174,000 are included under *Bids Made*.
- ⁸ In Sale 87, bids were received on 4 tracts that are involved in an international boundary dispute with Canada. Data are included under bids made (acres bid on, total exposed, high-bids submitted) for these 4 tracts covering 22,773 acres for \$5,104,000. These bids were not accepted or rejected and the one-fifth bonus bid amounts were deposited in an interest-bearing account pending a decision. On June 12, 1992, the one-fifth bonus bid amounts plus interest were returned to the bidders upon their request, as provided for in the Notice of Sale.
- ⁹ In Sale 94 (December 1985), one high bidder did not execute 5 awarded leases of 43 on time and, therefore, forfeited the one-fifth bonus deposit of \$1,231,200.
- ¹⁰ Sale S/S is the sulphur and salt sale.
- ¹¹ In Sale 97, bids were received on 16 tracts that are involved in an international boundary dispute with Canada. Data are included on bids made (acres bid on, total exposed, high-bids submitted) for these 16 tracts covering 87,359 acres for \$3,313,300. These bids were not accepted or rejected and the one-fifth bonus bid amounts were deposited in an interest-bearing account pending a decision. Five years from the day of bid opening, the bidders may elect to withdraw the bonus deposits together with accrued interest, as provided for in the Notice of Sale.
- ¹² Sale 92, originally scheduled for January 1986, was held October 11, 1988, after a preliminary injunction prohibiting the opening of bids was lifted.
- ¹³ In Sale 141 (8/19/92) one high bidder failed to execute the lease and forfeited the one-fifth bonus deposit.

NOTE: Sulphur lease sales have **S** after the sale numbers and salt lease sales have **SA**. **PH** indicates a phosphate lease sale; **P** indicates a Pacific (area) sale; **RS** indicates a reoffering sale. Two-part sales either have **A** and **B** or 1 and 2 after the sale numbers and were accounted for as separate sales, with the exception of Sale 69.

Table 4. Summary by Year of Federal Lease Offerings and Acreage Leased, 1954-92

Year	No. of Lease Offerings	Tracts Offered	Tracts Leased	Acres Offered	Acres Leased	High Bid Bonuses Accepted (\$)
1954	3	345	114	1,384,238	486,870	140,989,005
1955	1	210	121	674,095	402,567	108,528,726
1959	2	118	42	539,813	171,300	89,746,992
1960	2	395	148	1,632,339	707,026	282,717,065
1961	1	16	6	80,640	30,240	122,000
1962	3	830	420	3,718,115	1,929,177	489,481,061
1963	1	129	57	669,777	312,945	12,807,337
1964	2	224	124	1,124,102	613,524	95,874,327
1965	1	658	50	947,520	72,000	33,740,309
1966	3	71	42	265,886	141,768	209,199,893
1967	2	214	159	988,484	746,951	510,109,742
1968	3	305	197	1,315,984	934,164	1,346,487,097
1969	3	185	40	355,758	114,282	111,660,685
1970	2	161	138	666,845	598,540	945,064,773
1971	1	18	11	55,872	37,222	96,304,523
1972	2	210	178	970,711	826,195	2,251,347,556
1973	2	276	187	1,514,940	1,032,570	3,082,462,611
1974	4	1,006	356	5,006,881	1,762,158	5,022,860,815
1975	4	1,374	321	7,247,327	1,679,877	1,088,133,152
1976	4	536	246	2,827,342	1,277,937	2,242,898,467
1977	2	358	211	1,843,116	1,100,734	1,568,564,745
1978	4	586	249	3,140,696	1,297,274	1,767,042,064
1979	6	666	351	3,412,249	1,767,443	5,078,861,692
1980	3	483	218	2,563,452	1,134,227	4,204,640,257
1981	7	1,398	430	7,680,397	2,265,537	6,652,980,897
¹ 1982	5	1,410	357	7,637,122	1,886,360	3,987,490,009
1983	7	21,689	1,251	119,811,784	6,587,823	5,749,016,369
1984	6	27,984	1,387	154,383,680	7,397,939	3,928,876,308
1985	3	15,754	681	87,028,709	3,573,554	1,557,650,714
1986	2	10,724	142	58,670,104	734,418	187,094,747
1987	2	10,926	640	59,762,078	3,447,809	497,247,006
1988	7	28,382	1,621	158,016,215	8,838,943	1,259,548,738
1989	2	11,013	1,049	60,097,672	5,580,867	645,617,410
1990	2	10,459	825	29,788,766	4,263,446	584,301,918
1991	4	16,600	676	90,287,925	3,413,560	338,856,549
1992	2	<u>9,618</u>	<u>204</u>	<u>52,360,047</u>	<u>1,020,919</u>	<u>64,784,875</u>
Total²	111	175,275	13,243	955,490,685	68,157,926	5,252,968,534

¹ The 1982 data for 5 oil and gas lease sales account for the first part of Sale 69 as 69-1 and the 1983 data account for the second part as 69-2. Thus, there were 8 bid openings but only 7 offshore oil and gas lease sales recorded for 1983.

² This total does not include lease issuance data here for the Pacific phosphate sale held December 15, 1961, because 6 awarded leases (30,240 acres) were subsequently "terminated at the convenience of the Federal Government." The action followed discovery of unexploded naval missiles on the ocean floor of the 6 tracts on the southern California OCS. All bonuses (\$122,000) were returned to the lessees and are not totaled as revenues in tables 34, or 45.

NOTE: This table and table 5 summarize 111 Federal offshore sales by calendar year. Held from October 1954 through August 23, 1989, they include 93 oil and gas leases; 3 sulphur leases (1954, 1965, 1969, and 1988); 2 salt leases (1960, 1967, and 1988); 1 phosphate lease sale (1961); and 1 sulphur and salt sale (1988).

Figure 2. Acres Leased Compared to Bonuses Paid, 1955-92.

Figure 3. Acreage and Lease Distribution by OCS Region.

Table 5. Summary by OCS Region of Federal Lease Offerings and Lease Status, 1954-92

OCS Region	No. of Lease Offerings	Offerings		Leases Issued		Under Supervision ¹	
		Tracts	Acres	Tracts	Acres	Tracts	Acres
Alaska	15	24,272	133,776,553	1,565	8,611,964	534	2,887,389
Atlantic	8	8,773	49,316,683	384	2,186,183	51	290,353
Gulf of Mexico	75	139,625	758,589,366	10,791	54,635,795	5,764	29,371,949
Pacific	<u>11</u>	<u>1,876</u>	<u>9,669,705</u>	<u>466</u>	<u>2,513,336</u>	<u>94</u>	<u>481,889</u>
Subtotal	<u>109</u>	<u>174,546</u>	<u>951,352,307</u>	<u>13,206</u>	<u>67,947,278</u>	<u>6,443</u>	<u>33,031,580</u>

OCS Area		Reofferings ²		Leases Issued		Under Supervision	
		Tracts	Acres	Tracts	Acres	Tracts	Acres
Alaska	RS 1&2	315	1,781,399	1	5,694	0	0
Atlantic	RS-2	387	2,203,263	26	148,022	2	11,386
Pacific	RS-2	<u>27</u>	<u>153,716</u>	<u>10</u>	<u>56,932</u>	<u>0</u>	<u>0</u>
Subtotal	<u>2</u>	<u>729</u>	<u>4,138,378</u>	<u>37</u>	<u>210,648</u>	<u>2</u>	<u>11,386</u>
Total	111	175,275	955,490,685	13,243	68,157,926	6,445	33,042,966

¹ Under Supervision indicates all producing and nonproducing offshore mineral leases for which the DOI had responsibility as of December 31, 1992.

² The DOI has held 2 reoffering sales in offshore oil and gas lease areas: RS-1 reoffered 175 tracts (996,308 acres), Alaska; RS-2 reoffered 140 tracts (785,091 acres), Alaska; 155 tracts (882,444 acres), Mid-Atlantic; 232 tracts (1,320,819 acres), South Atlantic; and 27 tracts (153,716 acres), Northern and Central California. See table 3 for bidding and bonus details.

III. Offshore Development Activity

The GOM OCS Region has the highest level of permitting and drilling activity. The number of permits issued for collecting geologic and geophysical (G&G) data is shown in table 6. Table 7 shows OCS drilling activity followed by a regional breakdown of drilling activity in table 8. Production of oil and gas occurs on 8 percent of the acreage originally offered for lease. This producing acreage is about 24 percent of the active lease acreage (see fig. 5).

The number of G&G permits issued on the OCS in the latter half of the 1980s was less than 75 percent of the total issued in the first half of the decade. This trend continues in the 1990s with a total of 141 in 1992. Drilling activity in 1992 decreased over 1991 by 25 percent with 467 wells drilled (see fig. 4). Tables 9 and 10 show zone completion activity by year and OCS region, respectively.

Table 11 presents an annual record of producing acreage by OCS area. Although drilling activity increased in the GOM OCS Region, there was a net decrease of 36 production platforms in 1992, for a total of 3,813 (see tables 12 and 13). This is the first year in the history of the OCS program that platform removals exceeded installations. The Pacific OCS Region, the only other producing OCS area, has not added any production platforms since 1989 and still has 23 platforms. However, two topsides were added to the jackets installed in 1989. These two platforms, Heather and Heritage should be completely installed in 1993.

Tables 14 and 15 show pipeline mileage in the western and central GOM and offshore California. Collectively, pipelines transport almost 95 percent of OCS oil and 100 percent of OCS natural gas. The growth in pipeline mileage in the GOM has been steady throughout the last decade, reaching a total of more than 19,000 mi of pipeline. In 1992, the first pipelines since 1987 were installed offshore California. This additional 22 mi of pipeline brings the total pipeline mileage offshore California to 185 mi.

Table 6. Permits Issued for Geologic and/or Geophysical Exploration on Federal Offshore Lands, 1960-92

[These calendar year data count only G&G permits issued; permit extensions are not reported in this tabulation]

Year	Alaska OCS	Atlantic OCS	Pacific OCS	Gulf of Mexico OCS			Yearly Total
				Louisiana	Texas	MAFLA ¹	
1960-69	106	52	175	1,417	673	188	2,611
1970	40	4	3	108	47	11	213
1971	27	4	0	126	38	15	210
1972	17	4	1	130	42	26	220
1973	33	4	30	133	55	84	339
1974	47	2	24	174	103	7	357
1975	82	29	46	251	92	10	510
1976	69	35	24	195	89	8	420
1977	33	20	31	269	88	11	452
1978	9	17	38	165	97	16	342
1979	32	9	24	126	73	12	276
1980	41	15	31	142	65	24	318
1981	54	17	40	177	69	37	394
1982	85	11	62	226	100	18	502
1983	103	10	45	267	108	41	574
1984	70	6	56	260	114	37	543
1985	63	2	33	193	76	31	398
1986	18	3	20	107	46	17	211
1987	18	2	20	186	52	20	298
1988	13	4	33	172	64	27	313
1989	17	0	0	177	49	6	249
1990	19	1	4	157	64	6	251
1991	7	0	0	109	51	3	170
1992	<u>7</u>	<u>0</u>	<u>0</u>	<u>103</u>	<u>27</u>	<u>4</u>	<u>141</u>
Total	1010	251	740	5370	2282	659	10,171

¹ Mississippi, Alabama, and Florida.

Table 7. Oil and Gas Well Drilling on Federal Offshore Leases, 1954-92

[Well and borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

Year	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1955	41	0	N/A	239	175	455
1956	76	0	N/A	357	261	694
1957	61	17	N/A	588	402	1,068
1958	35	21	N/A	795	485	1,336
1959	40	31	N/A	1,461	569	2,101
1960	58	53	N/A	1,923	686	2,720
1961	54	99	N/A	2,467	814	3,434
1962	56	107	N/A	3,091	1,002	4,256
1963	62	130	N/A	3,631	1,226	5,049
1964	73	193	102	4,313	1,372	6,053
1965	89	261	0	4,733	1,685	6,768
1966	82	0	444	3,305	1,871	5,702
1967	95	0	496	3,762	2,233	6,586
1968	133	0	592	4,258	2,592	7,575
1969	103	129	590	4,752	2,919	8,493
1970	106	115	534	5,359	3,278	9,392
1971	89	152	551	5,718	3,724	10,234
1972	79	263	537	6,032	4,168	11,079
1973	84	249	546	6,421	4,599	11,899
1974	91	292	1,006	6,218	5,108	12,715
1975	97	292	977	6,104	5,617	13,087
1976	97	362	1,117	6,461	6,088	14,125
1977	169	496	N/A	7,914	6,610	15,189
1978	117	486	N/A	8,433	7,133	16,169
1979	175	603	N/A	8,964	7,576	17,318
1980	191	739	N/A	9,638	8,057	18,625
1981	173	724	N/A	10,308	8,704	19,909
1982	166	701	N/A	11,164	8,913	20,944
1983	134	597	N/A	11,990	9,374	22,095
1984	253	313	1,151	11,861	9,903	23,481
1985	195	348	1,166	12,285	10,487	24,481
1986	95	279	1,200	12,536	11,909	26,019
1987	142	265	1,275	12,736	12,373	26,791
1988	116	289	1,402	12,827	13,164	27,798
1989	123	361	1,441	12,938	13,846	28,709
1990	120	266	1,466	13,167	14,677	29,696
1991	64	249	1,436	13,184	15,430	30,363
1992	104	180	1,465	13,209	16,348	31,306

¹ Other kinds of wells not yet plugged and abandoned (P&A), but standing awaiting work, are not separately reported from 1955-63 and from 1977-83. Before 1964 and from 1977-83, wells or boreholes not yet P&A were listed as either completed or suspended.

NOTE: See table 8 for well information by adjacent State or planning area. See table 9 for information about zone completions.

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1954						
Louisiana	26	0	N/A	130	103	259
Texas	1	0	N/A	0	1	2
Total	27	0	N/A	130	104	261
1955						
Louisiana	38	0	N/A	235	170	443
Texas	3	0	N/A	4	5	12
Total	41	0	N/A	239	175	455
1956						
Louisiana	75	0	N/A	353	242	670
Texas	1	0	N/A	4	19	24
Total	76	0	N/A	357	261	694
1957						
Louisiana	61	17	N/A	585	381	1,044
Texas	0	0	N/A	3	21	24
Total	61	17	N/A	588	402	1,068
1958						
Louisiana	34	21	N/A	791	464	1,310
Texas	1	0	N/A	4	21	26
Total	35	21	N/A	795	485	1,336
1959						
Louisiana	40	31	N/A	1,455	545	2,071
Texas	0	0	N/A	6	24	30
Total	40	31	N/A	1,461	569	2,101
1960						
Florida	1	0	N/A	0	1	2
Louisiana	55	53	N/A	1,916	657	2,681
Texas	2	0	N/A	7	28	37
Total	58	53	N/A	1,923	686	2,720
1961						
Florida	0	0	N/A	0	3	3
Louisiana	54	99	N/A	2,456	771	3,380
Texas	0	0	N/A	11	40	51
Total	54	99	N/A	2,467	814	3,434

Footnotes at end of table.

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — *continued*

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Complete (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1962						
Florida	0	0	N/A	0	3	3
Louisiana	56	107	N/A	3,079	955	4,197
Texas	0	0	N/A	12	44	56
Total	56	107	N/A	3,091	1,002	4,256
1963						
California	1	0	N/A	0	1	2
Florida	0	0	N/A	0	3	3
Louisiana	60	130	N/A	3,617	1,175	4,982
Texas	1	0	N/A	14	47	62
Total	62	130	N/A	3,631	1,226	5,049
1964						
California	2	0	0	0	8	10
Florida	0	0	0	0	3	3
Louisiana	70	193	2	4,281	1,302	5,948
Texas	1	0	0	32	59	92
Total	73	193	2	4,313	1,372	6,053
1965						
California	0	0	0	0	15	15
Florida	0	0	0	0	3	3
Louisiana	87	241	0	4,694	1,597	6,619
Oregon	1	1	0	0	3	5
Texas	1	19	0	39	67	126
Total	89	261	0	4,733	1,685	6,768
1966						
California	1	0	0	0	16	17
Florida	0	0	0	0	3	3
Louisiana	80	0	427	3,254	1,773	5,534
Oregon	0	0	0	0	7	7
Texas	1	0	17	51	70	139
Washington	0	0	0	0	2	2
Total	82	0	444	3,305	1,871	5,702

Footnotes at end of table.

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — continued

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1967						
California	0	0	0	0	26	26
Florida	0	0	0	0	3	3
Louisiana	93	0	493	3,681	2,111	6,378
Oregon	0	0	0	0	8	8
Texas	2	0	3	81	81	167
Washington	0	0	0	0	4	4
Total	95	0	496	3,762	2,233	6,586
1968						
California	9	0	4	26	51	90
Florida	0	0	0	0	3	3
Louisiana	117	0	576	4,147	2,425	7,265
Oregon	0	0	0	0	8	8
Texas	7	0	12	85	101	205
Washington	0	0	0	0	4	4
Total	133	0	592	4,258	2,592	7,575
1969						
California	6	7	4	94	71	182
Florida	0	0	0	0	3	3
Louisiana	92	120	570	4,567	2,680	8,029
Oregon	0	0	0	0	8	8
Texas	5	2	16	91	153	267
Washington	0	0	0	0	4	4
Total	103	129	590	4,752	2,919	8,493
1970						
California	5	9	5	162	77	258
Florida	0	0	0	0	3	3
Louisiana	100	102	510	5,099	3,006	8,817
Oregon	0	0	0	0	8	8
Texas	1	4	19	98	180	302
Washington	0	0	0	0	4	4
Total	106	115	534	5,359	3,278	9,392

Footnotes at end of table

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — continued

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1971						
California	1	13	5	188	88	295
Florida	0	0	0	0	3	3
Louisiana	81	131	526	5,429	3,429	9,596
Oregon	0	0	0	0	8	8
Texas	7	8	20	101	192	328
Washington	0	0	0	0	4	4
Total	89	152	551	5,718	3,724	10,234
1972						
California	1	12	6	191	92	302
Florida	0	0	0	0	3	3
Louisiana	77	251	517	5,727	3,851	10,423
Oregon	0	0	0	0	8	8
Texas	1	0	14	114	210	339
Washington	0	0	0	0	4	4
Total	79	263	537	6,032	4,168	11,079
1973						
California	1	13	6	194	92	306
Florida	0	0	0	0	3	3
Louisiana	73	236	522	6,104	4,252	11,187
Oregon	0	0	0	0	8	8
Texas	10	0	18	123	240	391
Washington	0	0	0	0	4	4
Total	84	249	546	6,421	4,599	11,899
1974						
California	2	0	24	191	97	314
Florida	10	0	0	0	14	24
Louisiana	63	292	948	5,912	4,624	11,839
Oregon	0	0	0	0	8	8
Texas	16	0	34	115	361	526
Washington	0	0	0	0	4	4
Total	91	292	1,006	6,218	5,108	12,715
1975						
California	2	0	15	207	92	316
Florida	6	0	3	0	36	45
Louisiana	70	292	906	5,776	5,024	12,068
Oregon	0	0	0	0	8	8
Texas	19	0	53	121	453	646
Washington	0	0	0	0	4	4
Total	97	292	977	6,104	5,617	13,087

Footnotes at end of table

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — continued

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1976						
Alaska	2	0	0	0	0	2
California	6	0	14	210	102	332
Florida	2	2	0	1	67	72
Louisiana	55	359	961	6,102	5,321	12,798
Oregon	0	0	0	0	8	8
Texas	32	1	142	148	586	909
Washington	0	0	0	0	4	4
Total	97	362	1,117	6,461	6,088	14,125
1977						
Alaska	2	0	N/A	0	7	9
California	4	15	N/A	230	141	390
Louisiana	131	319	N/A	7,422	5,704	13,576
MAFLA	0	1	N/A	26	81	108
Oregon	0	0	N/A	0	8	8
Texas	32	161	N/A	236	665	1,094
Washington	0	0	N/A	0	4	4
Total	169	496	N/A	7,514	6,610	15,189
1978						
Alaska	1	0	N/A	0	13	14
Atlantic	7	0	N/A	0	8	15
California	4	20	N/A	224	176	424
Louisiana	85	339	N/A	7,758	6,034	14,216
MAFLA	1	5	N/A	34	94	134
Oregon	0	0	N/A	0	8	8
Texas	19	122	N/A	417	796	1,354
Washington	0	0	N/A	0	4	4
Total	117	486	N/A	8,433	7,133	16,169
1979						
Alaska	2	0	N/A	0	17	19
Atlantic	4	0	N/A	0	25	29
California	4	24	N/A	223	203	454
Louisiana	114	382	N/A	8,169	6,305	14,970
MAFLA	5	10	N/A	50	118	183
Oregon	0	0	N/A	0	8	8
Texas	46	187	N/A	522	896	1,651
Washington	0	0	N/A	0	4	4
Total	175	603	N/A	8,964	7,576	17,318

Footnotes at end of table

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — *continued*

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1980						
Alaska	0	0	N/A	0	21	21
Atlantic	2	0	N/A	0	30	32
California	10	37	N/A	246	238	531
Louisiana	130	479	N/A	8,618	6,641	15,868
MAFLA	2	36	N/A	70	126	234
Oregon	0	0	N/A	0	8	8
Texas	47	187	N/A	704	989	1,927
Washington	0	0	N/A	0	4	4
Total	191	739	N/A	9,638	8,057	18,625
1981						
Alaska	2	0	N/A	0	21	23
Atlantic	3	0	N/A	0	35	38
California	10	33	N/A	286	265	594
Louisiana	107	443	N/A	9,094	7,090	16,734
MAFLA	6	51	N/A	90	139	286
Oregon	0	0	N/A	0	8	8
Texas	45	197	N/A	838	1,142	2,222
Washington	0	0	N/A	0	4	4
Total	173	724	N/A	10,308	8,704	19,909
*1982						
Alaska	1	3	N/A	0	21	25
Atlantic	0	0	N/A	0	42	42
California	13	48	N/A	325	294	680
Louisiana	103	406	N/A	9,707	7,390	17,606
MAFLA	8	24	N/A	132	25	189
Oregon	0	0	N/A	0	8	8
Texas	41	220	N/A	1,000	1,129	2,390
Washington	0	0	N/A	0	4	4
Total	166	701	N/A	11,164	8,913	20,944
1983						
Alaska	1	2	N/A	0	24	27
Atlantic	1	0	N/A	0	43	44
California	14	36	N/A	378	334	762
Louisiana	81	361	N/A	10,333	7,719	18,494
MAFLA	10	15	N/A	169	25	219
Oregon	0	0	N/A	0	8	8
Texas	27	183	N/A	1,110	1,217	2,537
Washington	0	0	N/A	0	4	4
Total	134	597	N/A	11,990	9,374	22,095

Footnotes at end of table

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — continued

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
*1984						
Alaska	5	0	5	0	33	43
Atlantic	0	0	0	0	46	46
California	10	11	6	440	348	815
Louisiana	167	211	1,140	10,279	8,103	19,900
MAFLA	0	0	0	0	25	25
Oregon	0	0	0	0	8	8
Texas	71	91	0	1,142	1,336	2,640
Washington	0	0	0	0	4	4
Total	253	313	1,151	11,861	9,903	23,481
*1985						
Alaska	1	0	4	0	56	61
Atlantic	0	0	0	0	46	46
California	4	0	14	471	304	793
Louisiana	140	214	966	10,626	8,574	20,520
MAFLA	0	0	0	0	27	27
Oregon	0	0	0	0	8	8
Texas	50	134	182	1,188	1,468	3,022
Washington	0	0	0	0	4	4
Total	195	348	1,166	12,285	10,487	24,481
1986						
Alaska	0	0	9	0	57	66
Atlantic	0	0	0	0	46	46
Gulf of Mexico						
Central	64	166	1,003	10,753	9,751	21,737
Eastern	0	0	1	0	33	34
Western	24	113	168	1,279	1,628	3,212
Pacific	7	0	19	504	394	924
Total	95	279	1,200	12,536	11,909	26,019
1987						
Alaska	1	0	7	0	60	68
Atlantic	0	0	0	0	46	46
Gulf of Mexico						
Central	104	163	1,073	10,878	10,113	22,331
Eastern	2	0	1	0	35	38
Western	26	97	178	1,321	1,717	3,339
Pacific	9	5	16	537	402	969
Total	142	265	1,275	12,736	12,373	26,791

Footnotes at end of table

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — *continued*

[Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations]

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1988						
Alaska	0	0	6	0	63	69
Atlantic	0	0	0	0	46	46
Gulf of Mexico						
Central	87	167	1,170	10,888	10,775	23,087
Eastern	0	0	3	0	36	39
Western	24	120	197	1,384	1,833	3,558
Pacific	5	2	26	555	411	999
Total	116	265	1,402	12,827	13,164	27,798
1989						
Alaska	0	0	7	0	66	73
Atlantic	0	0	0	0	46	46
Gulf of Mexico						
Central	88	224	1,224	10,898	11,306	23,740
Eastern	1	0	6	0	37	44
Western	27	135	177	1,476	1,962	3,777
Pacific	7	2	27	564	429	1,029
Total	123	361	1,441	12,938	13,846	28,709
1990						
Alaska	0	0	3	0	72	75
Atlantic	0	0	0	0	46	46
Gulf of Mexico						
Central	93	164	1,263	11,014	11,953	24,487
Eastern	1	0	5	0	38	44
Western	24	101	167	1,582	2,134	4,008
Pacific	2	1	28	571	434	1,036
Total	120	266	1,466	13,167	14,677	29,696
1991						
Alaska	1	0	2	0	75	78
Atlantic	0	0	0	0	46	46
Gulf of Mexico						
Central	55	149	1,256	10,999	12,570	25,029
Eastern	0	0	6	0	38	44
Western	8	99	144	1,598	2,272	4,121
Pacific	0	1	28	587	429	1,045
Total	64	249	1,436	13,184	15,430	30,363

¹Footnotes at end of table

Table 8. Oil and Gas Well Drilling Status by OCS Area, 1954-92 — *continued*

(Well and Borehole are used interchangeably in these data, and no distinction is made between exploration and production well drilling in the tabulations)

OCS Area by Adjacent State	Well Drilling Status			Completed (Wells and Boreholes)	Plugged and Abandoned (Wells and Boreholes)	Cumulative Total
	Active	Suspended	Other ¹			
1992						
Alaska	0	0	2	0	77	79
Atlantic	0	0	0	0	46	46
Gulf of Mexico						
Central	88	97	1,301	11,015	13,317	25,818
Eastern	0	0	6	0	38	44
Western	14	82	130	1,604	2,439	4,269
Pacific	2	1	26	590	431	1,050
Total	104	180	1,465	13,209	16,348	31,306

¹ Other kinds of wells not yet plugged and abandoned (P&A), but standing awaiting work, are not separately reported from 1955-63 and from 1977-83. Before 1964 and from 1977-83, wells or boreholes not yet P&A were listed as either completed or suspended.

² The 1982 figures for MAFLA have been adjusted after audit.

³ GOM statistics for 1984 and 1985 are not available separately for the OCS areas adjacent to the State waters of Louisiana, Texas and MAFLA. However, the totals are actual.

NOTE: See tables 7, 9, and 10 for more summary information. See table 7 for annual summary of well information. Also see tables 9 and 10 for information about zone completions.

Figure 4. Exploration and Development Drilling Activity on the OCS.

Table 9. Zone Completion Status of Oil and Gas Wells on the Federal OCS, 1950-92

Year	Producible Zone Completion						Other Than Producible Zone Completions ²		
	Active		Shut-In ¹			Year-end Total	Service, ³ etc.	Not Restorable ⁴	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1950	371	N/A	13	26	N/A	410	N/A	N/A	N/A
1951	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1952	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1953	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1954	50	20	15	45	N/A	130	N/A	N/A	N/A
1955	117	29	31	62	N/A	239	N/A	N/A	N/A
1956	195	32	41	89	N/A	357	N/A	N/A	N/A
1957	330	31	83	144	N/A	588	N/A	N/A	N/A
1958	487	74	80	154	N/A	795	N/A	N/A	N/A
1959	864	173	245	179	N/A	1,461	N/A	N/A	N/A
1960	1,138	210	326	249	N/A	1,923	N/A	N/A	N/A
1961	1,463	240	429	335	N/A	2,467	N/A	N/A	N/A
1962	1,863	333	513	382	N/A	3,091	N/A	N/A	N/A
1963	2,237	397	584	413	N/A	3,631	N/A	N/A	N/A
1964	2,708	417	622	486	N/A	4,233	80	0	80
1965	3,068	516	687	462	N/A	4,733	0	0	0
1966	3,588	660	747	504	N/A	5,499	35	0	35
1967	4,080	870	759	507	N/A	6,216	60	0	60
1968	4,483	1,040	908	578	N/A	7,009	91	0	91
1969	4,985	1,260	880	578	N/A	7,723	117	0	117
1970	5,565	1,674	882	645	N/A	8,666	184	0	184
1971	5,704	1,872	953	602	N/A	9,131	217	0	217
1972	3,744	1,808	2,996	872	N/A	9,420	296	0	296
1973	3,814	2,108	3,054	879	N/A	9,855	332	0	332
1974	3,686	1,942	732	461	266	7,087	416	873	1,289
1975	3,506	2,071	1,013	694	512	7,796	325	587	912
1976	3,555	2,256	1,179	637	193	7,820	333	2,304	2,637
1977	3,409	2,263	1,468	835	111	8,086	404	2,210	2,614
1978	3,397	2,615	1,071	742	0	7,825	382	3,323	3,705
1979	3,468	2,965	1,046	707	170	8,356	389	3,638	4,027
1980	3,393	2,995	1,244	921	44	8,597	370	3,406	3,776
1981	3,504	3,088	1,333	1,095	53	9,073	362	3,830	4,192
1982	3,651	3,213	1,333	1,184	110	9,491	363	4,201	4,564
1983	3,849	3,320	1,538	1,380	8	10,095	496	4,510	5,006
1984	3,994	3,340	1,503	1,473	0	10,310	514	4,314	4,828
1985	4,112	3,211	1,461	1,749	0	10,533	576	4,146	4,722
1986	4,084	3,235	1,525	1,817	0	10,661	511	4,339	4,850
1987	3,983	3,281	1,441	1,709	0	10,414	503	4,302	4,805
1988	4,147	3,322	1,322	1,766	0	10,557	585	4,495	5,080
1989	3,791	3,151	1,500	1,869	0	10,311	484	4,288	4,772
1990	3,735	3,568	1,498	1,847	0	10,648	560	4,130	4,690
1991	3,814	3,527	1,575	1,945	0	10,861	542	3,926	4,468
1992	3,726	3,343	1,700	2,091	0	10,860	535	4,053	4,588

Footnotes at end of table

Table 9. Zone Completion Status of Oil and Gas Wells on the Federal OCS, 1950-92
—continued

-
- ¹ *Shut-In Oil, Gas, or Undetermined Hydrocarbon (U.H.) completions* are those temporarily taken out of production pending either repairs or major or minor workovers. Until 1974, calendar year reports did not distinguish such restorable but producible zone completions that are shut-in and left "standing due to drilling on platforms, planning for secondary or other injection projects, delay in facilities (installation), well plugging by sand or (those) other mechanical problems, pressure depletion, or having an excessive oil/gas ratio."
- ² *Other Than Producing Zone Completions* include those service completions drilled for injection/withdrawal, salt disposal, or similar purpose. These have been reported separately since 1964.
- ³ All injection, service wells, etc.
- ⁴ *Not Restorable* (oil or gas) completions are judged not capable of production and are to be plugged and abandoned (P&A) and permanently sealed.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92

OCS Area by Adjacent State	Producible Zone Completions					Year-end Total	Other Than Producible Zone Completions ^a		
	Active		Shut-In ^b				Service, ^c etc.	Not Restorable ^d	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1954									
Louisiana	50	20	15	45	0	130	0	0	0
Texas	0	0	0	0	0	0	0	0	0
Total	50	20	15	45	0	130	0	0	0
1955									
Louisiana	117	29	30	59	0	235	0	0	0
Texas	0	0	1	3	0	4	0	0	0
Total	117	29	31	62	0	239	0	0	0
1956									
Louisiana	194	32	41	86	0	353	0	0	0
Texas	0	0	0	3	0	4	0	0	0
Total	194	32	41	89	0	357	0	0	0
1957									
Louisiana	330	31	83	141	0	585	0	0	0
Texas	0	0	0	3	0	3	0	0	0
Total	330	31	83	144	0	588	0	0	0
1958									
Louisiana	487	74	80	150	0	791	0	0	0
Texas	0	0	0	4	0	4	0	0	0
Total	487	74	80	154	0	795	0	0	0
1959									
Louisiana	864	173	244	174	0	1,455	0	0	0
Texas	0	0	1	5	0	6	0	0	0
Total	864	173	245	179	0	1,461	0	0	0
1960									
Florida	0	0	0	0	0	0	0	0	0
Louisiana	1,138	210	324	244	0	1,916	0	0	0
Texas	0	0	2	5	0	7	0	0	0
Total	1,138	210	326	249	0	1,923	0	0	0
1961									
Florida	0	0	0	0	0	0	0	0	0
Louisiana	1,463	240	427	326	0	2,456	0	0	0
Texas	0	0	2	9	0	11	0	0	0
Total	1,463	240	429	335	0	2,467	0	0	0

Footnotes at end of table.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92 — continued

OCS Area by Adjacent State	Producible Zone Completions					Year-end Total	Other Than Producible Zone Completions ²		
	Active		Shut-In ¹				Service, ³ etc.	Not Restorable ⁴	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1982									
Florida	0	0	0	0	0	0	0	0	0
Louisiana	1,863	333	511	372	0	3,079	0	0	0
Texas	0	0	2	10	0	12	0	0	0
Total	1,863	333	513	382	0	3,091	0	0	0
1983									
California	0	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	2,235	397	583	402	0	3,617	0	0	0
Texas	2	0	1	11	0	14	0	0	0
Total	2,237	397	584	413	0	3,631	0	0	0
1984									
California	0	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	2,708	417	615	461	0	4,201	80	0	80
Texas	0	0	7	25	0	32	0	0	0
Total	2,708	417	622	486	0	4,233	80	0	80
1985									
California	0	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	3,067	516	681	430	0	4,694	0	0	0
Oregon	0	0	0	0	0	0	0	0	0
Texas	1	0	6	32	0	39	0	0	0
Total	3,068	516	687	462	0	4,733	0	0	0
1986									
California	0	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	3,580	630	744	474	0	5,428	35	0	0
Oregon	0	0	0	0	0	0	0	0	0
Texas	8	30	3	30	0	71	0	0	0
Washington	0	0	0	0	0	0	0	0	0
Total	3,588	660	747	504	0	5,499	35	0	0
1987									
California	0	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	4,053	789	756	499	0	6,097	60	0	60
Oregon	0	0	0	0	0	0	0	0	0
Texas	27	81	3	8	0	117	0	0	0
Washington	0	0	0	0	0	0	0	0	0
Total	4,080	870	759	507	0	6,214	60	0	60

Footnotes at end of table.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92 — *continued*

OCS Area by Adjacent State	Producible Zone Completions					Year-end Total	Other Than Producible Zone Completions ^a		
	Active		Shut-In ^b				Service, ^c etc.	Not Restorable ^d	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1968									
California	24	0	2	0	0	26	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	4,428	956	903	569	0	6,856	91	0	0
Oregon	0	0	0	0	0	0	0	0	0
Texas	31	84	3	9	0	127	0	0	0
Washington	0	0	0	0	0	0	0	0	0
Total	4,483	1,040	908	578	0	7,009	91	0	0
1969									
California	77	0	17	0	0	94	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	4,875	1,189	860	569	0	7,493	117	0	117
Oregon	0	0	0	0	0	0	0	0	0
Texas	33	91	3	9	0	136	0	0	0
Washington	0	0	0	0	0	0	0	0	0
Total	4,985	1,280	880	578	0	7,723	117	0	117
1970									
California	149	0	14	0	0	163	0	0	0
Florida	0	0	0	0	0	0	0	0	0
Louisiana	5,384	1,483	861	629	0	8,357	164	0	164
Oregon	0	0	0	0	0	0	0	0	0
Texas	32	91	7	16	0	146	0	0	0
Washington	0	0	0	0	0	0	0	0	0
Total	5,565	1,574	882	645	0	8,666	164	0	164
1971									
California	182	0	11	0	0	193	1	0	1
Florida	0	0	0	0	0	0	0	0	0
Louisiana	5,495	1,771	935	588	0	8,789	216	0	216
Oregon	0	0	0	0	0	0	0	0	0
Texas	27	101	7	14	0	149	0	0	0
Washington	0	0	0	0	0	0	0	0	0
Total	5,704	1,872	953	602	0	9,131	217	0	217
1972									
California	172	0	18	0	0	190	1	0	1
Florida	0	0	0	0	0	0	0	0	0
Louisiana	3,556	1,714	2,959	838	0	9,067	294	0	294
Oregon	0	0	0	0	0	0	0	0	0
Texas	16	94	19	34	0	163	1	0	1
Washington	0	0	0	0	0	0	0	0	0
Total	3,744	1,808	2,996	872	0	9,420	296	0	296

Footnotes at end of table.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92 — *continued*

OCS Area by Adjacent State	Producible Zone Completions						Other Than Producible Zone Completions ²		
	Active		Shut-In ¹			Year-end Total	Service, ³ etc.	Not Restorable ⁴	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1973									
California	172	0	18	0	0	190	4	0	4
Florida	0	0	0	0	0	0	0	0	0
Louisiana	3,623	2,016	3,014	832	0	9,485	327	0	327
Oregon	0	0	0	0	0	0	0	0	0
Texas	19	92	22	47	0	180	1	0	1
V'ashington	0	0	0	0	0	0	0	0	0
Total	3,814	2,108	3,054	879	0	9,855	332	0	332
1974									
California	172	0	5	0	0	177	21	0	21
Florida	0	0	0	0	0	0	0	0	0
Louisiana	3,500	1,837	717	444	260	6,758	394	859	1,253
Oregon	0	0	0	0	0	0	0	0	0
Texas	14	105	10	17	6	152	1	14	15
Washington	0	0	0	0	0	0	0	0	0
Total	3,686	1,942	732	461	266	7,087	416	873	1,289
1975									
California	172	0	20	0	0	192	24	0	24
Florida	0	0	0	0	0	0	0	0	0
Louisiana	3,323	1,996	979	667	503	7,468	299	581	880
Oregon	0	0	0	0	0	0	0	0	0
Texas	11	75	14	27	9	136	2	6	8
Washington	0	0	0	0	0	0	0	0	0
Total	3,506	2,071	1,013	694	512	7,796	325	587	912
1976									
California	176	0	21	0	0	197	24	0	24
Florida	0	0	3	0	0	3	0	2	2
Louisiana	3,363	2,184	1,142	602	189	7,480	305	2,226	2,531
Oregon	0	0	0	0	0	0	0	0	0
Texas	16	72	13	35	4	140	4	76	80
Washington	0	0	0	0	0	0	0	0	0
Total	3,555	2,256	1,179	637	193	7,820	333	2,304	2,637
1977									
Alaska	0	0	0	0	0	0	0	0	0
California	198	0	20	0	0	218	23	0	23
Louisiana	3,176	2,185	1,437	787	101	7,686	378	2,168	2,546
MAFLA	21	0	6	0	0	27	0	0	0
Oregon	0	0	0	0	0	0	0	0	0
Texas	14	78	5	48	10	155	3	42	45
Washington	0	0	0	0	0	0	0	0	0
Total	3,409	2,263	1,468	835	111	8,086	404	2,210	2,614

Footnotes at end of table.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92 — *continued*

OCS Area by Adjacent State	Producible Zone Completions					Year-end Total	Other Than Producible Zone Completions ²		
	Active		Shut-In ¹				Service, ³ etc.	Not Restorable ⁴	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1978									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	202	0	22	0	0	224	22	0	22
Louisiana	3,149	2,425	1,013	654	0	7,241	357	3,247	3,604
MAFLA	29	2	8	1	0	40	0	0	0
Oregon	0	0	0	0	0	0	0	0	0
Texas	17	188	28	87	0	320	3	76	79
Washington	0	0	0	0	0	0	0	0	0
Total	3,397	2,615	1,071	742	0	7,825	382	3,323	3,705
1979									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	205	0	6	0	0	211	30	0	30
Louisiana	3,175	2,653	1,018	638	120	7,604	354	3,554	3,908
MAFLA	47	4	7	1	0	59	1	0	1
Oregon	0	0	0	0	0	0	0	0	0
Texas	41	308	15	68	50	482	4	84	88
Washington	0	0	0	0	0	0	0	0	0
Total	3,468	2,965	1,046	707	170	8,356	389	3,638	4,027
1980									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	213	0	14	0	0	227	33	0	33
Louisiana	3,045	2,596	1,194	806	29	7,670	331	3,303	3,634
MAFLA	54	0	9	3	0	66	2	2	4
Oregon	0	0	0	0	0	0	0	0	0
Texas	81	399	27	112	15	634	4	101	105
Washington	0	0	0	0	0	0	0	0	0
Total	3,393	2,995	1,244	921	44	8,597	370	3,406	3,776
1981									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	248	0	19	0	0	267	37	0	37
Louisiana	3,113	2,596	1,262	918	41	7,930	320	3,718	4,038
MAFLA	44	0	24	1	1	70	2	3	5
Oregon	0	0	0	0	0	0	0	0	0
Texas	99	488	28	176	11	802	3	109	112
Washington	0	0	0	0	0	0	0	0	0
Total	3,504	3,084	1,333	1,095	53	9,069	362	3,830	4,192

Footnotes at end of table.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92 — continued

OCS Area by Adjacent State	Producible Zone Completions						Other Than Producible Zone Completions ²		
	Active		Shut-In ¹			Year-end Total	Service, ³ etc.	Not Restorable ⁴	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
*1982									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	266	1	34	0	0	301	43	0	43
Louisiana	3,190	2,590	1,246	1,032	90	8,148	312	4,038	4,350
MAFLA	83	18	15	7	2	125	6	4	10
Oregon	0	0	0	0	0	0	0	0	0
Texas	112	604	38	145	18	917	2	159	161
Washington	0	0	0	0	0	0	0	0	0
Total	3,651	3,213	1,333	1,184	110	9,491	363	4,201	4,564
1983									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	289	5	34	0	0	328	46	0	46
Louisiana	3,363	2,671	1,422	1,155	7	8,618	435	4,327	4,762
MAFLA	85	27	26	15	0	153	12	4	16
Oregon	0	0	0	0	0	0	0	0	0
Texas	112	617	56	210	1	996	3	179	182
Washington	0	0	0	0	0	0	0	0	0
Total	3,849	3,320	1,538	1,380	8	10,095	496	4,510	5,006
*1984									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	310	7	47	21	0	385	56	0	56
Louisiana/MAFLA	3,566	2,700	1,421	1,263	0	8,950	453	4,141	4,594
Oregon	0	0	0	0	0	0	0	0	0
Texas	118	633	35	189	0	975	5	173	178
Washington	0	0	0	0	0	0	0	0	0
Total	3,994	3,340	1,503	1,473	0	10,310	514	4,314	4,828
*1985									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
California	340	20	57	5	0	422	88	0	88
Louisiana/MAFLA	3,634	2,505	1,375	1,540	0	9,054	485	3,877	4,362
Oregon	0	0	0	0	0	0	0	0	0
Texas	138	686	29	204	0	1,057	3	269	272
Washington	0	0	0	0	0	0	0	0	0
Total	4,112	3,211	1,461	1,749	0	10,533	576	4,146	4,722

Footnotes at end of table.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92 — *continued*

OCS Area by Adjacent State	Producible Zone Completions					Year-end Total	Other Than Producible Zone Completions ²		
	Active		Shut-In ¹				Service, ³ etc.	Not Restorable ⁴	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1986									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
Gulf of Mexico									
Central	3,602	2,481	1,422	1,578	0	9,083	416	4,057	4,473
Eastern	0	0	0	0	0	0	0	0	0
Western	138	733	32	229	0	1,132	3	282	285
Pacific	344	21	71	10	0	446	92	0	92
Total	4,084	3,235	1,525	1,817	0	10,661	511	4,339	4,850
1987									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
Gulf of Mexico									
Central	3,472	2,488	1,332	1,497	0	8,789	400	3,992	4,392
Eastern	0	0	0	0	0	0	0	0	0
Western	145	773	33	202	0	1,153	6	310	316
Pacific	366	20	76	10	0	472	97	0	97
Total	3,983	3,281	1,441	1,709	0	10,414	503	4,302	4,805
1988									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
Gulf of Mexico									
Central	3,538	2,525	1,210	1,505	0	8,778	480	4,090	4,570
Eastern	0	0	0	0	0	0	0	0	0
Western	152	767	32	251	0	1,202	3	395	398
Pacific	457	30	80	10	0	577	102	10	112
Total	4,147	3,322	1,322	1,766	0	10,557	585	4,495	5,080
1989									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
Gulf of Mexico									
Central	3,260	2,352	1,386	1,585	0	8,583	385	3,889	4,274
Eastern	0	0	0	0	0	0	0	0	0
Western	147	784	34	273	0	1,238	3	385	388
Pacific	384	15	80	11	0	490	96	14	110
Total	3,791	3,151	1,500	1,869	0	10,311	484	4,288	4,772

Footnotes at end of table.

Table 10. Zone Completion Status of Oil and Gas Wells by OCS Area, 1954-92 — *continued*

OCS Area by Adjacent State	Producible Zone Completions					Year-end Total	Other Than Producible Zone Completions ²		
	Active		Shut-In ¹				Service, ³ etc.	Not Restorable ⁴	Year-end Total
	Oil	Gas	Oil	Gas	U. H.				
1990									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
Gulf of Mexico									
Central	3,195	2,635	1,384	1,536	0	8,750	461	3,628	4,089
Eastern	0	0	0	0	0	0	0	0	0
Western	144	916	35	297	0	1,392	1	490	491
Pacific	396	17	79	14	0	506	98	12	110
Total	3,735	3,568	1,498	1,847	0	10,648	560	4,130	4,690
1991									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
Gulf of Mexico									
Central	3,295	2,580	1,435	1,618	0	8,928	444	3,446	3,890
Eastern	0	0	0	0	0	0	0	0	0
Western	136	928	42	315	0	1,421	1	466	467
Pacific	383	19	98	12	0	512	97	14	111
Total	3,814	3,527	1,575	1,945	0	10,861	542	3,926	4,468
1992									
Alaska	0	0	0	0	0	0	0	0	0
Atlantic	0	0	0	0	0	0	0	0	0
Gulf of Mexico									
Central	3,156	2,428	1,567	1,680	0	8,831	431	3,716	4,147
Eastern	0	0	0	0	0	0	0	0	0
Western	169	894	55	401	0	1,519	4	327	313
Pacific	401	21	78	10	0	510	100	10	110
Total	3,726	3,343	1,700	2,091	0	10,860	535	4,053	4,588

¹ Shut-In Oil, Gas, or Undetermined Hydrocarbon (U.H.) completions are those temporarily taken out of production pending either repairs or major or minor workovers. Until 1974, calendar year reports did not distinguish such restorable but producible zone completions that are shut-in and left "standing due to drilling on platforms, planning for secondary or other injection projects, delay in facilities (installation), well plugging by sand or (those) other mechanical problems, pressure depletion, or having an excessive oil/gas ratio."

² Other Than Producible Zone Completions include those service completions drilled for injection/withdrawal, salt disposal, or similar purpose. These have been reported separately since 1964.

³ All injection, service, wells, etc.

⁴ Not Restorable (oil or gas) completions are judged not capable of production and are to be plugged and abandoned (P&A), and permanently sealed.

⁵ The 1982 figures for MAFLA have been adjusted after audit.

⁶ GOM statistics for 1984 and 1985 are not available separately for the OCS areas adjacent to the State waters of Louisiana, Texas, and MAFLA. However, the totals are actual.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1954						
Louisiana	58	240,028	295	1,066,739	353	1,306,767
sulphur	0	0	5	25,000	5	25,000
Texas	0	0	120	196,926	120	196,926
Total	58	240,028	420	1,288,665	478	1,528,693
1955						
Louisiana	102	432,316	356	1,567,147	458	1,999,463
sulphur	0	0	5	25,000	5	25,000
Texas	4	5,760	144	346,509	148	352,269
Total	106	438,076	505	1,938,656	611	2,376,732
1956						
Louisiana	167	668,416	265	842,143	432	1,510,559
sulphur	0	0	5	25,000	5	25,000
Texas	4	5,760	121	314,019	125	319,779
Total	171	674,176	391	1,181,162	562	1,855,338
1957						
Louisiana	210	771,246	176	587,552	386	1,358,798
sulphur	0	0	5	25,000	5	25,000
Texas	3	4,320	27	97,389	30	101,709
Total	213	775,566	208	709,941	421	1,485,507
1958						
Louisiana	226	959,495	136	453,593	362	1,413,088
sulphur	0	0	5	21,995	5	21,995
Texas	4	10,080	21	75,789	25	85,869
Total	230	969,575	162	551,377	392	1,520,952
1959						
Florida	0	0	23	132,480	23	132,480
Louisiana	259	1,079,620	85	209,983	344	1,289,603
sulphur	0	0	5	22,000	5	22,000
Texas	13	23,040	4	19,983	17	43,023
Total	272	1,102,660	117	384,446	389	1,487,106

Footnotes at end of table.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

(Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases)

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1960						
Florida	0	0	23	132,480	23	132,480
Louisiana	285	1,141,959	94	428,361	379	1,570,320
salt	1	2,500	0	0	1	2,500
sulphur	0	0	5	22,000	5	22,000
Texas	13	23,040	48	240,480	61	263,520
Total	299	1,167,499	170	823,321	469	1,990,820
1961						
Florida	0	0	23	132,480	23	132,480
Louisiana	294	1,189,146	85	366,967	379	1,556,113
salt	1	2,500	0	0	1	2,500
sulphur	5	6,953	0	0	5	6,953
Texas	15	30,240	40	205,920	55	236,160
Total	315	1,228,839	148	705,367	463	1,934,206
1962						
California						
phosphate	0	0	6	30,240	6	30,240
Florida	0	0	11	63,360	11	63,360
Louisiana	311	1,261,262	475	2,177,985	786	3,439,247
salt	1	2,500	0	0	1	2,500
sulphur	5	6,953	0	0	5	6,953
Texas	15	30,240	34	152,640	49	182,880
Total	332	1,300,955	526	2,424,225	858	3,725,180
1963						
California	0	0	57	312,945	57	312,945
Louisiana	342	1,381,874	441	2,030,043	783	3,411,917
salt	1	2,500	0	0	1	2,500
sulphur	5	6,953	0	0	5	6,953
Texas	15	40,500	26	115,200	41	155,700
Total	363	1,431,827	524	2,458,188	887	3,890,015

Footnotes at end of table.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1984						
California	0	0	54	295,665	54	295,665
Louisiana	357	1,463,149	422	1,870,554	779	3,333,703
salt	1	2,500	0	0	1	2,500
sulphur	5	6,953	0	0	5	6,953
Oregon	0	0	74	425,433	74	425,433
Texas	12	31,860	29	123,840	41	155,700
Washington	0	0	27	155,420	27	155,420
Total	375	1,504,462	606	2,870,912	981	4,375,374
1985						
California	0	0	50	272,625	50	272,625
Louisiana	406	1,632,544	335	1,487,335	741	3,119,879
salt	1	2,500	0	0	1	2,500
sulphur	5	6,953	0	0	5	6,953
Oregon	0	0	74	425,433	74	425,433
Texas	13	37,620	26	109,440	39	147,060
Washington	0	0	27	155,420	27	155,420
Total	425	1,679,617	512	2,450,253	937	4,129,870
1986						
California	0	0	35	186,225	35	186,225
Louisiana	469	1,917,276	303	1,307,869	772	3,225,145
salt	1	2,500	0	0	1	2,500
sulphur	5	6,953	0	0	5	6,953
Oregon	0	0	60	344,793	60	344,793
Texas	13	37,800	26	109,260	39	147,060
sulphur	0	0	41	59,040	41	59,040
Washington	0	0	21	120,960	21	120,960
Total	488	1,964,529	486	2,128,147	974	4,092,676

Footnotes at end of table

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1957						
California	0	0	3	13,515	3	13,515
Louisiana	506	2,038,821	293	1,303,928	799	3,342,749
salt	1	2,500	1	2,495	2	4,995
sulphur	5	6,953	0	0	5	6,953
Oregon	0	0	8	45,825	8	45,825
Texas	13	37,800	16	87,660	29	125,460
sulphur	0	0	34	48,960	34	48,960
Washington	0	0	3	17,280	3	17,280
Total	525	2,086,074	358	1,519,663	883	3,605,737
1969						
California	3	13,156	69	352,021	72	365,177
Louisiana	518	2,119,651	276	1,182,081	794	3,301,732
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Oregon	0	0	2	11,520	2	11,520
Texas	10	11,430	125	622,304	135	633,734
sulphur	0	0	10	14,400	10	14,400
Washington	0	0	3	17,278	3	17,278
Total	538	2,156,185	485	2,199,604	1,023	4,355,789
1989						
California	7	30,300	65	334,876	72	365,176
Louisiana	531	2,182,860	265	1,106,437	796	3,289,297
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	4	5,625	9	12,578
Texas	23	83,430	113	549,134	136	632,564
sulphur	0	0	6	8,640	6	8,640
Total	568	2,308,538	453	2,004,712	1,021	4,313,250
1979						
California	10	42,256	60	312,983	70	355,239
Louisiana	557	2,329,365	254	999,393	811	3,328,758
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	4	5,625	9	12,578
Texas	34	146,340	90	431,324	124	577,664
sulphur	0	0	1	1,440	21	1,440
Total	608	2,529,909	409	1,750,765	1,017	4,280,674

Footnotes at end of table

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1971						
California	12	53,776	58	301,463	70	355,239
Louisiana	596	2,497,933	303	1,248,742	899	3,746,675
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	4	5,625	9	12,578
Texas	34	146,340	69	336,464	103	482,804
Total	649	2,709,997	434	1,892,294	1,083	4,602,291
1972						
California	16	78,816	53	275,061	69	351,877
Louisiana	636	2,659,880	234	652,183	870	3,612,063
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	2	3,125	7	10,078
Texas	39	0	36	192,734	75	359,054
Total	698	2,914,964	325	1,423,103	1,023	4,338,067
1973						
Alabama	0	0	13	74,106	13	74,106
California	17	82,576	52	269,301	69	351,877
Floraida	0	0	62	357,120	62	357,120
Louisiana	660	2,803,654	309	1,306,336	969	4,076,270
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	1	1,875	6	8,828
Mississippi	0	0	6	34,560	6	34,560
Texas	42	174,960	97	531,267	139	706,227
Total	726	3,039,418	540	2,574,565	1,266	5,613,983
1974						
Alabama	0	0	13	74,106	13	74,106
California	14	63,617	54	283,191	68	346,808
Florida	0	0	62	357,120	62	357,120
Louisiana	668	2,987,540	519	2,619,609	1,187	5,123,263
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	1	1,875	6	8,828
Mississippi	0	0	6	34,560	6	34,560
Texas	44	186,480	202	1,110,708	246	2,064,893
Total	733	3,065,699	857	4,181,169	1,590	7,246,868

Footnotes at end of table

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

(Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases)

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1975						
Alabama	0	0	13	74,106	13	74,106
California	14	63,617	60	317,751	74	381,368
Florida	0	0	61	351,360	61	351,360
Louisiana	725	2,987,540	521	2,413,141	1,246	5,400,681
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	1	1,875	6	8,828
Mississippi	0	0	6	34,560	6	34,560
Texas	44	189,630	340	1,875,263	384	2,064,893
Total	790	3,252,735	1,002	5,068,056	1,792	8,320,791
1976						
Alabama	0	0	11	62,586	11	62,586
Alaska	0	0	76	409,057	76	409,057
California	14	63,617	110	593,240	124	656,857
Florida	0	0	50	288,000	50	288,000
Louisiana	749	3,082,564	489	2,245,316	1,238	5,327,880
salt	0	0	2	4,995	2	4,995
sulphur	0	0	1	1,875	1	1,875
Mississippi	0	0	6	34,560	6	34,560
Mid-Atlantic	0	0	93	529,466	93	529,466
Texas	70	330,414	325	1,786,413	395	2,116,827
Total	833	3,476,595	1,163	5,955,508	1,996	9,432,103
1977						
Alabama	0	0	11	62,586	11	62,586
Alaska	0	0	163	904,364	163	904,364
California	24	121,672	97	518,355	121	640,027
Florida	0	0	46	264,960	46	264,960
Louisiana	780	3,317,335	509	2,238,462	1,289	5,555,797
salt	0	0	1	2,495	1	2,495
sulphur	0	0	1	1,875	1	1,875
Mississippi	0	0	6	34,560	6	34,560
Mid-Atlantic	0	0	93	529,466	93	529,466
Texas	92	454,278	325	1,784,472	417	2,238,750
Total	896	3,893,285	1,252	6,341,595	2,148	10,234,880

Footnotes at end of table.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1979						
Alabama	0	0	8	45,306	8	45,306
Alaska	0	0	144	796,194	144	796,194
California	24	121,672	77	413,367	101	535,039
Florida	0	0	35	201,600	35	201,600
Louisiana	786	3,366,831	475	2,067,884	1,261	5,434,715
salt	0	0	1	2,495	1	2,495
Mississippi	0	0	4	23,040	4	23,040
Texas	121	615,583	267	1,459,775	388	2,075,358
Mid-Atlantic	0	0	93	529,466	93	529,466
South Atlantic	0	0	43	244,813	43	244,813
Total	931	4,104,086	1,147	5,783,940	2,078	9,888,026
1979						
Alabama	0	0	5	28,495	5	28,495
Alaska	0	0	116	655,260	116	655,260
California	24	121,672	121	648,555	145	770,227
Florida	0	0	35	201,600	35	201,600
Louisiana	849	3,640,793	457	2,032,785	1,306	5,673,578
salt	0	0	1	2,495	1	2,495
Texas	149	770,268	237	1,287,423	386	2,057,691
Mid-Atlantic	0	0	126	717,325	126	717,325
South Atlantic	0	0	43	244,813	43	244,813
Total	1,022	4,532,733	1,141	5,818,751	2,163	10,351,484
1980						
Alabama	0	0	5	28,495	5	28,495
Alaska	0	0	129	683,560	129	683,560
California	24	121,672	118	639,013	142	760,685
Florida	0	0	35	201,600	35	201,600
Louisiana	933	4,029,519	478	2,127,361	1,411	6,156,880
salt	2	4,995	0	0	2	4,995
Texas	186	970,805	147	794,841	333	1,765,646
Mid-Atlantic	0	0	126	737,304	126	737,304
South Atlantic	0	0	43	224,813	43	224,813
North Atlantic	0	0	63	358,659	63	358,659
Total	1,145	5,126,991	1,144	5,795,646	2,289	10,922,637

Footnotes at end of table.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1981						
Alabama	0	0	5	28,495	5	28,495
Alaska			110	574,534	110	574,534
California	24	121,672	126	672,922	150	794,594
Florida	0	0	35	201,600	35	201,600
Louisiana	993	4,299,826	564	2,582,865	1,557	6,882,691
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Texas	194	1,014,110	239	1,170,752	433	2,184,862
Mid-Atlantic	0	0	65	370,045	65	370,045
South Atlantic	0	0	28	159,404	28	159,404
North Atlantic	0	0	63	358,659	63	358,659
Total	1,218	5,447,556	1,235	6,119,276	2,453	11,566,832
1982						
Alabama	0	0	5	28,495	5	28,495
Alaska	0	0	194	1,026,747	194	1,026,747
California	31	156,616	153	809,913	184	966,529
Florida	0	0	35	201,600	35	201,600
Louisiana	1,055	4,600,686	526	2,450,818	1,581	7,051,504
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Texas	214	1,122,675	238	1,152,825	452	2,275,500
Mid-Atlantic	0	0	99	563,607	99	563,607
South Atlantic	0	0	68	387,124	68	387,124
North Atlantic	0	0	60	341,580	60	341,580
Total	1,307	5,891,925	1,378	6,962,709	2,685	12,854,634
1983						
Alabama	0	0	5	28,495	5	28,495
Alaska	² 3	² 12,294	228	1,362,645	231	1,374,939
California	38	194,776	141	746,342	179	941,118
Florida	0	0	35	201,600	35	201,600
Louisiana	1,110	4,861,499	1,106	5,386,883	2,216	10,248,382
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Texas	235	¹ 236,906	606	3,035,171	841	4,272,077
Mid-Atlantic	0	0	132	751,476	132	751,476
South Atlantic	0	0	66	375,738	66	375,738
North Atlantic	0	0	60	341,580	60	341,580
Total	1,393	6,317,1²³	2,379	12,229,930	3,772	18,547,353

Footnotes at end of table.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1984						
Alabama	0	0	5	28,495	5	28,495
Alaska	² 4	² 17,426	710	3,885,200	714	3,902,626
California	38	194,056	144	751,800	182	945,856
Florida	0	0	35	201,600	35	201,600
Louisiana	1,163	5,098,106	1,540	7,703,853	2,703	12,801,959
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Texas	264	1,397,137	896	4,591,527	1,160	5,988,664
Mid-Atlantic	0	0	140	797,020	140	797,020
South Atlantic	0	0	32	182,176	32	182,176
North Atlantic	0	0	46	261,878	46	261,878
Total	1,476	6,718,673	3,548	18,403,549	5,024	25,122,222
1985						
Alabama	0	0	5	28,495	5	28,495
Alaska	² 4	² 17,426	690	3,765,647	694	3,783,073
California	38	194,056	134	704,852	172	898,908
Florida	0	0	35	201,600	35	201,600
Louisiana	1,180	5,223,218	1,836	9,220,332	3,016	14,443,550
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Texas	285	1,518,668	861	4,392,236	1,146	5,910,904
Mid-Atlantic	0	0	109	620,557	109	620,557
South Atlantic	0	0	20	113,864	20	113,864
Total	1,514	6,965,316	3,690	19,047,583	5,204	26,012,899
1986						
Alaska	² 5	² 23,119	623	3,392,103	628	3,415,222
California	38	194,056	124	650,430	162	844,486
Gulf of Mexico						
Central	1,209	5,402,369	1,524	7,541,767	2,733	12,944,136
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Eastern	0	0	209	1,257,123	209	1,257,123
Western	284	1,511,497	947	4,856,051	1,231	6,367,548
Mid-Atlantic	0	0	85	483,920	85	483,920
South Atlantic	0	0	20	113,864	20	113,864
Total	1,543	7,142,989	3,532	18,295,258	5,075	25,438,247

Footnotes at end of table.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1987						
Alaska	² 8	² 34,913	462	2,497,906	470	2,532,819
California	45	231,843	91	474,067	136	705,910
Gulf of Mexico						
Central	1,241	5,566,371	1,623	8,124,999	2,864	13,691,370
salt	2	4,995	0	0	2	4,995
sulphur	5	6,953	0	0	5	6,953
Eastern	0	0	177	1,072,803	177	1,072,803
Western	295	1,570,074	1,154	5,999,663	1,449	7,569,737
Mid-Atlantic	0	0	69	392,830	69	392,830
South Atlantic	0	0	20	113,863	20	113,863
Total	1,596	7,415,149	3,596	18,676,131	5,192	26,091,280
1988						
Alaska	² 8	² 34,913	992	5,460,146	1,000	5,495,059
California	47	242,670	88	457,530	135	700,200
Gulf of Mexico						
Central	1,297	5,861,582	1,920	9,722,475	3,217	15,584,057
salt	2	4,995	0	0	2	4,995
sulphur	1	1,094	14	142,685	15	143,779
Eastern	0	0	175	1,061,283	175	1,061,283
Western	292	1,546,710	908	4,626,372	1,200	6,173,082
Mid-Atlantic	0	0	54	307,432	54	307,432
South Atlantic	0	0	20	113,864	20	113,864
Total	1,647	7,691,964	4,171	21,891,787	5,818	29,583,751
1989						
Alaska	² 8	² 34,913	926	5,110,793	934	5,145,706
California	48	243,126	75	394,631	123	637,757
Gulf of Mexico						
Central	1,319	5,969,992	2,216	11,258,903	3,535	17,228,895
salt	2	4,995			2	4,995
sulphur	1	1,094	14	142,685	15	143,779
Eastern	3	17,280	280	1,661,031	283	1,678,311
Western	307	1,624,655	1,253	6,599,064	1,560	8,223,719
Mid-Atlantic	0	0	44	250,500	44	250,500
South Atlantic	0	0	19	108,171	19	108,171
Total	1,688	7,896,055	4,827	25,525,778	6,515	33,421,833

Footnotes at end of table.

Table 11. Producing and Nonproducing OCS Oil and Gas and Salt and Sulphur Leases under Federal Supervision, 1954-92 — *continued*

[Data from phosphate, salt and sulphur leases are reported separately from oil and gas leases]

OCS Area by Adjacent State	Producing ¹		Nonproducing		Total Leases	
	No.	Acres	No.	Acres	No.	Acres
1990						
Alaska	² 8	² 34,913	886	4,920,961	894	4,955,874
California	46	236,910	64	326,425	110	563,335
Gulf of Mexico						
Central	1,333	6,039,865	2,503	12,688,203	3,836	18,728,068
salt	2	4,995	0	0	2	4,995
sulphur	1	1,094	14	142,685	15	143,779
Eastern	3	17,280	299	1,752,073	302	1,769,353
Western	324	1,709,561	1,445	7,660,189	1,769	9,369,750
Mid-Atlantic	0	0	42	239,114	42	239,114
South Atlantic	0	0	19	108,170	19	108,170
Total	1,717	8,044,618	5,272	27,837,820	6,989	35,882,438
1991						
Alaska	² 4	² 20,866	861	4,720,374	865	4,741,240
California	45	228,492	59	298,281	104	526,773
Gulf of Mexico						
Central	1,302	5,806,207	2,696	13,787,989	3,998	19,594,196
salt	1	2,495	0	0	2	2,495
sulphur	1	1094	11	90,370	12	91,464
Eastern	0	0	279	1,595,421	279	1,595,421
Western	359	1,899,689	1,460	8,150,249	1,819	10,049,938
Mid-Atlantic	0	0	37	239,114	37	239,114
South Atlantic	0	0	19	108,170	19	108,170
Total	1,712	7,952,904	5,422	28,989,968	7,134	36,942,872
1992						
Alaska	² 4	20,866	530	2,866,523	534	2,887,389
California	45	228,492	49	253,397	94	481,889
Gulf of Mexico						
Central	1,286	5,734,885	2,678	13,614,463	3,964	19,349,348
salt	1	2,495	0	0	1	2,495
sulphur	1	1,094	8	74,063	9	75,157
Eastern	0	0	262	1,497,502	262	1,497,502
Western	374	1,984,571	1,154	6,462,876	1,528	8,447,447
Mid-Atlantic	0	0	34	193,568	34	193,568
South Atlantic	0	0	19	108,171	19	108,171
Total	1,711	7,972,403	4,734	25,070,563	6,445	33,042,966

¹ The designation *Producing* actually includes all the leases in each producing unit.

² Producing leases and acreage (see glossary).

Table 12. Installations and Removals of Offshore Production Facilities in Federal Waters, 1953–92

Year	Alaska OCS		Atlantic OCS		GOM OCS		Pacific OCS		Net Change
	Installations	Removals	Installations	Removals	Installations	Removals	Installations	Removals	
1953	0	0	0	0	41	0	0	0	41
1954	0	0	0	0	24	0	0	0	24
1955	0	0	0	0	30	1	0	0	29
1956	0	0	0	0	45	1	0	0	44
1957	0	0	0	0	55	4	0	0	51
1958	0	0	0	0	85	0	0	0	85
1959	0	0	0	0	80	1	0	0	79
1960	0	0	0	0	114	0	0	0	114
1961	0	0	0	0	111	0	0	0	111
1962	0	0	0	0	123	0	0	0	123
1963	0	0	0	0	86	2	0	0	84
1964	0	0	0	0	130	0	0	0	130
1965	0	0	0	0	126	5	0	0	121
1966	0	0	0	0	116	2	0	0	114
1967	0	0	0	0	134	0	1	0	135
1968	0	0	0	0	107	1	3	0	109
1969	0	0	0	0	105	1	1	0	105
1970	0	0	0	0	124	1	0	0	123
1971	0	0	0	0	101	4	0	0	97
1972	0	0	0	0	121	6	0	0	115
1973	0	0	0	0	98	1	0	0	97
1974	0	0	0	0	52	18	0	0	34
1975	0	0	0	0	100	32	0	0	68
1976	0	0	0	0	111	31	1	0	81
1977	0	0	0	0	116	15	1	0	102
1978	0	0	0	0	164	25	0	0	139
1979	0	0	0	0	159	43	2	0	118
1980	0	0	0	0	169	32	3	0	140
1981	0	0	0	0	171	24	2	0	149
1982	0	0	0	0	192	21	0	0	171
1983	0	0	0	0	177	¹ 36	1	0	142
1984	0	0	0	0	229	47	1	0	183
1985	0	0	0	0	² 214	68	3	0	149
1986	0	0	0	0	109	33	1	0	77
1987	0	0	0	0	119	24	1	0	96
1988	0	0	0	0	178	102	0	0	76
1989	0	0	0	0	188	100	2	0	90
1990	0	0	0	0	174	107	0	0	67
1991	0	0	0	0	153	117	0	0	36
1992	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>86</u>	<u>122</u>	<u>0</u>	<u>0</u>	<u>(36)</u>
Total	0	0	0	0	4,817	1,027	23	0	3,813

¹ The 1983 removal figures reflect earlier transfers of 5 Federal facilities from Federal to State jurisdiction and conversion of 3 from production to service use.

² The 1985 installation total includes 47 facilities counted during audits completed in 1985.

Table 13. Oil and Gas Production Facilities on Federal Offshore Leases, 1992

<i>OCS Region</i>	<i>Number of Facilities</i>
Alaska	0
Atlantic	0
Pacific	123
Gulf of Mexico	
Corpus Christi Subdistrict	125
Lake Charles Subdistrict	388
Lake Jackson District	356
Lafayette District	819
Houma District	1,092
New Orleans District	1,010
<u>Gulf of Mexico Subtotal</u>	<u>3,790</u>
Total	3,813

¹ Pacific OCS Region platforms include Platform Ely (see Table 15), but not offshore storage and treatment (OS&T) facility/vessel.

NOTE: See table 12 for information on annual installations and removals.

Figure 5. OCS Leasing, Exploration, and Production Activity, 1954-92.

Table 14. Pipeline Installations on the Gulf of Mexico OCS, 1951-92

[Both Federal- and State-permitted pipelines reported here originate in Federal waters; all landfalls are State permitted and made on State lands. Construction set-ups for pipelines are listed as undated if the installation year is not reported.]

Year	Central Gulf Pipelines					Western Gulf Pipelines				
	Federal Permits		State Permits			Federal Permits		State Permits		
	Sections Laid	Line Miles	Sections Laid	Line Miles	Land-falls	Sections Laid	Line Miles	Sections Laid	Line Miles	Land-falls
1951	0	0	1	0.9	0	0	0	0	0	0
1952	1	10.4	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0
1954	1	0.9	3	6.9	1	0	0	0	0	0
1955	5	8.6	0	0	0	0	0	0	0	0
1956	13	55.1	3	14.8	1	0	0	0	0	0
1957	8	8.5	2	6.9	1	0	0	0	0	0
1958	15	20.8	2	4.9	1	0	0	0	0	0
1959	8	28.4	3	4.6	1	0	0	0	0	0
1960	19	29.6	6	21.9	4	0	0	0	0	0
1961	20	58.8	7	28.5	6	0	0	0	0	0
1962	27	98.8	1	4.2	1	0	0	0	0	0
1963	39	126.7	11	42.8	8	0	0	0	0	0
1964	18	65.1	2	74.3	2	0	0	0	0	0
1965	24	63.6	3	14.9	3	2	22.6	1	15	1
1966	31	271.7	5	21.2	5	0	0	0	0	0
1967	36	200.4	7	34.7	4	1	22.1	1	15.1	1
1968	39	227.9	9	46.6	7	0	0	0	0	0
1969	82	415.7	9	49.6	7	1	4	0	0	0
1970	125	413.2	9	43.2	8	1	16.5	0	0	0
1971	208	393.2	3	17.7	3	0	0	0	0	0
1972	318	1,286.3	15	158.7	10	10	26	1	7.4	0
1973	103	376.5	3	10.6	3	4	50.1	1	10.5	1
1974	115	522.8	4	31.5	3	2	11.6	0	0	0
1975	129	387.1	1	4.1	1	2	0.3	0	0	0
1976	200	578.9	5	24.5	3	3	2.8	0	0	0
1977	133	356	3	22.5	2	2	19.6	1	1.7	0
1978	202	585.4	9	40.4	8	24	148.8	1	22	1
1979	204	586.3	2	17.3	2	21	209.4	0	0	0
1980	178	649.7	3	4.9	1	38	224.6	0	0	0
1981	197	546	N/A	N/A	N/A	33	158.9	N/A	N/A	N/A
1982	147	261.6	N/A	N/A	N/A	13	29.9	N/A	N/A	N/A
1983	201	465.2	N/A	N/A	N/A	26	91.1	N/A	N/A	N/A
1984	176	265.5	N/A	N/A	N/A	5	23.2	N/A	N/A	N/A
1985	161	356.4	N/A	N/A	N/A	31	163.7	N/A	N/A	N/A
1986	162	423.9	N/A	N/A	N/A	34	113.2	N/A	N/A	N/A
1987	177	349.9	N/A	N/A	N/A	29	185	N/A	N/A	N/A
1988	174	535.9	N/A	N/A	N/A	41	174.7	N/A	N/A	N/A
1989	233	480	N/A	N/A	N/A	77	294	N/A	N/A	N/A
1990	235	601.7	N/A	N/A	N/A	78	200.6	N/A	N/A	N/A
1991	236	674.9	N/A	N/A	N/A	42	168.7	N/A	N/A	N/A
1992	168	515.9	N/A	N/A	N/A	30	91.1	N/A	N/A	N/A
Subtotal	4,568	13,303	131	753	96	550	2,453	6	72	4
Undated	2,819	3,097.4	50	251	32	117	416.8	4	48.3	3
Total	7,387	16,400.7	181	1,004.1	128	667	2,869.3	10	120.0	7

Table 15. Pipeline Installations on the Pacific OCS, 1967-92

Year	Pipeline Route	Length of Pipeline (meters)			
		Oil	Gas	Oil/Gas	Water
1967	Platform Hogan to shore facility	1,271.62	1,271.62	0.00	1,271.62
	Platform Hogan to shore facility	0.00	¹ 1,271.62	0.00	0.00
1968	Platform "A" to shore facility	10,845.39	10,845.39	0.00	10,845.39
	Platform "B" to Platform "A"	1,211.27	1,211.27	0.00	1,211.27
	Platform Houchin to Platform Hogan	1,022.60	1,022.60	0.00	1,022.60
	Platform Houchin to Platform Hogan	0.00	¹ 1,022.60	0.00	0.00
1969	Platform Hillhouse to Platform "A"	856.79	856.79	0.00	856.79
1977	Platform "C" to Platform "B"	865.32	865.32	0.00	865.32
1979	Platform Grace to (Platform Hope)	18,745.20	18,745.20	0.00	0.00
	Platform Henry to Platform Hillhouse	4,008.12	4,008.12	0.00	4,008.12
1980	Platform Ellen to Platform Elly	0.00	0.00	60.96	0.00
	Platform Elly to shore facility	10,282.73	0.00	0.00	0.00
1981	Platform Gilda to shore facility	10,036.45	10,036.45	0.00	10,036.45
	Platform Gina to shore facility	0.00	0.00	483.71	483.71
	Platform Hondo "A" to OS & T ²	2,481.07	³ 2,529.84	0.00	2,481.07
1983	Platform Edith to Platform Elly	1,873.30	0.00	0.00	0.00
	Platform Edith to (Platform Eva)	0.00	8,183.57	0.00	0.00
	Platform Habitat to shore facility	0.00	7,588.91	0.00	0.00
	Platform Hondo "A" to shore facility	0.00	3,346.70	0.00	0.00
1984	Platform Eureka to Platform Elly	2,566.41	2,596.89	0.00	2,551.77
1986	Platform Irene to shore facility	3,688.08	3,688.08	0.00	3,688.08
	Platform Harvest to Platform Hermosa	4,815.84	4,815.84	0.00	0.00
	Platform Hermosa to shore facility	9,662.16	9,662.16	0.00	0.00
1987	Platform Gail to Platform Grace	9,656.06	9,656.06	0.00	9,656.06
	Platform Hidalgo to Platform Hermosa	8,686.80	8,686.80	0.00	0.00
1992	Platform Harmony to shore	7,435.92	0.00	0.00	0.00
	(20" oil emulsion)				
	Platform Harmony to shore	0.00	0.00	0.00	7,521.87
	(12" treated water)				
	Platform Harmony to Platform Hondo	4,607.98	0.00	0.00	0.00
	(14" oil emulsion)				
	Platform Harmony to Platform Hondo	0.00	4,623.22	0.00	0.00
	(12" sales gas)				
	Platform Harmony to Platform Heritage	<u>10,900.58</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	(20" oil emulsion)				
Total		125,519.69	116,535.05	544.67	56,500.12

Footnotes at end of table.

Table 15. Pipeline Installations on the Pacific OCS, 1967-92 — *continued*

¹ Gas lift pipeline.

² Production from Platform Hondo, launched in 1981, is piped to a single anchor-leg mooring (SALM) to which a converted tanker, the Santa Ynez, is attached. An offshore storage and treatment vessel (OS&T) provides primary separation, treatment, and storage for about 40,000 barrels of oil per day. Approximately every 5 days the accumulated crude is offloaded to tankers for shipment to Exxon's Texas refinery. Hondo, in production since 1981, is the deepest set platform in the Santa Barbara Channel.

³ Fuel gas pipeline.

NOTE: All offshore facilities (with the launch dates) reported here are located in Federal waters with the exception of Platform Hope (1979) and Platform Eva (1983), shown above in parentheses, which are in State waters. Altogether, Federal leases offshore California are serviced by 299 kilometers (185.89 statute miles) of pipeline.

IV. Offshore Production of Crude Oil and Natural Gas

Table 16 and figure 6 show Federal OCS oil and natural gas production as a percentage of total U.S. production. The role of Federal OCS oil and natural gas production as part of total U.S. production has increased steadily since 1954. By 1971, Federal OCS crude oil and natural gas production stood at 11.8 and 12.5 percent, respectively, of the Nation's total. Since 1971, OCS crude oil as a percentage of total U.S. production has remained stable — ranging between 8.8 and 12.9 percent. Production of OCS natural gas as a percentage of total U.S. production has continued to rise, reaching an all-time high in 1990 of 28.5 percent before dropping to 26.8 percent in 1992.

Tables 17 through 28 compare Federal OCS production to offshore production in State waters. The States producing hydrocarbons in adjacent offshore waters are Alaska, Alabama, California, Louisiana, and Texas. There is no oil or natural gas production on the Federal OCS offshore Alaska.

The Federal OCS accounts for about 78 percent of offshore crude oil and 90 percent of natural gas production. In 1992, Federal production of crude oil and condensate was 66, 92, and 87 percent of total offshore production for California, Louisiana, and Texas respectively. Federal OCS leases offshore Alabama produced 4,462 bbl of condensate in 1992. There was no crude oil or condensate production in Alabama State waters. For California, Louisiana, and Texas, Federal offshore production is more than 79, 91, and 94 percent, respectively, of total offshore natural gas production.

Tables 29 and 30 present a ranking of operators by field size in Federal offshore waters. There are 116 operators producing crude oil or condensate from Federal OCS leases — 118 producers of natural gas. Most of these operators produce from leases in the Gulf of Mexico. On the Pacific OCS, there are 6 crude oil and natural gas producers.

Table 16. Federal Offshore Oil and Gas Production as a Percentage of Total U.S. Production, pre-1954-92

Year	Crude Oil & Condensate Production (bbl)			Natural Gas Production ¹ (Mcf)		
	Federal Offshore Production	Total U.S. Production	Federal OCS (Percent of Total)	Federal Offshore Production	Total U.S. Production	Federal OCS (Percent of Total)
pre-1954	1,266,284	2,357,082,000	0.05	25,382,974	8,396,916,000	0.30
1954	2,416,684	2,314,988,000	0.10	61,104,514	8,742,546,000	0.70
1955	3,841,332	2,484,428,000	0.15	89,178,760	9,405,351,000	0.95
1956	7,030,682	2,617,283,000	0.27	92,677,920	10,081,923,000	0.92
1957	11,824,727	2,616,901,000	0.45	95,212,917	10,680,258,000	0.89
1958	19,693,626	2,448,987,000	0.80	146,476,573	11,030,298,000	1.33
1959	29,628,136	2,574,590,000	1.15	228,817,319	11,619,951,000	1.97
1960	40,608,419	2,574,933,000	1.58	287,184,398	12,771,038,000	2.25
1961	55,640,370	2,621,758,000	2.12	341,457,127	13,254,025,000	2.58
1962	76,765,311	2,676,189,000	2.87	460,401,693	13,876,622,000	3.32
1963	96,391,296	2,752,723,000	3.50	571,881,217	14,666,559,000	3.90
1964	111,264,706	2,786,822,000	3.99	657,532,791	15,462,143,000	4.25
1965	165,969,656	2,848,514,000	5.83	757,623,062	16,039,753,000	4.72
1966	177,470,024	3,027,763,000	5.80	1,012,358,710	17,206,628,000	5.88
1967	209,538,664	3,215,742,000	6.52	1,310,907,903	18,171,325,000	7.21
1968	255,930,903	3,329,042,000	7.69	1,633,301,990	19,322,400,000	8.45
1969	302,187,991	3,371,751,000	8.96	1,996,209,574	20,698,240,000	9.64
1970	354,175,830	3,517,450,000	10.07	2,463,904,098	21,920,642,000	11.24
1971	406,912,590	3,453,914,000	11.78	2,802,303,987	22,493,000,000	12.46
1972	395,985,737	3,455,965,000	11.46	3,077,586,295	22,532,000,000	13.66
1973	384,796,753	3,360,920,000	11.45	3,388,541,513	21,731,000,000	15.59
1974	354,925,731	3,202,510,000	11.08	3,495,138,703	20,713,000,000	16.87
1975	325,277,114	3,056,875,000	10.64	3,502,583,049	19,236,000,000	18.21
1976	314,523,742	2,976,180,000	10.60	3,634,544,637	19,098,000,000	19.03
1977	295,948,312	3,009,425,000	9.83	3,848,191,771	19,163,000,000	20.08
1978	287,956,861	3,178,055,000	9.06	4,130,398,100	19,122,000,000	21.60
1979	274,237,127	3,121,480,000	8.79	4,771,562,671	19,663,000,000	24.27
1980	274,732,179	3,137,905,000	8.76	4,867,866,076	19,403,000,000	25.09
1981	282,923,076	3,128,780,000	9.04	5,001,460,785	19,181,000,000	26.08
1982	314,523,227	3,156,885,000	9.96	4,778,345,596	17,820,000,000	26.81
1983	350,794,257	3,171,120,000	11.06	4,181,614,901	16,094,000,000	25.98
1984	385,131,443	3,240,835,000	11.88	4,702,202,270	17,466,000,000	26.92
1985	380,022,004	3,274,415,000	11.61	4,203,186,745	16,454,000,000	25.55
1986	384,322,180	3,168,200,000	12.13	4,183,015,371	16,059,000,000	26.05
1987	358,832,754	3,047,385,000	11.78	4,671,135,345	16,621,000,000	28.10
1988	332,702,192	2,971,100,000	11.20	4,728,599,430	17,103,000,000	27.65
1989	313,739,473	2,778,745,000	11.29	4,793,483,582	17,311,000,000	27.69
1990	304,481,947	2,684,575,000	11.34	5,077,692,659	17,810,000,000	28.51
1991	326,385,853	2,707,205,000	12.06	4,842,382,241	17,751,000,000	27.28
1992	337,915,799	2,610,845,000	12.94	4,770,924,663	17,781,000,000	26.83
Total	9,307,210,645	118,022,265,000	7.89	105,684,373,914	663,951,618,00	15.92

¹ Includes production data for casinghead gas.

SOURCE: Total U.S. Production — Energy Information Administration, U.S. Department of Energy, Monthly Energy Review [DOE/EIA-0035 (March 1992)].

Figure 6. Federal OCS Production as a Percentage of Total U.S. Production, 1954-92.

Table 17. Alabama Offshore: Federal and State Crude Oil and Condensate Production, 1992

Year	State Production			Federal & State Comparison		
	Crude Oil (bbl)	Condensate (bbl)	Total (bbl)	Federal OCS (bbl)	Federal OCS & State Total (bbl)	Federal OCS Production as Percent of Total
pre-1992	0	0	0	0	0	0
1992	0	0	0	4,492	4,492	100
Total	0	0	0	4,492	4,492	100

NOTE: See table 23 for comparable data on natural gas production.
SOURCE: State Production —State Oil and Gas Board of Alabama

Table 18. Alaska Offshore: Federal and State Crude Oil and Condensate Production, 1965-92

Year	State			Federal & State Comparison	
	Crude Oil (bbl)	Condensate (bbl)	Total (bbl)	Federal OCS (bbl)	Federal OCS Production as Percent of Total
1965	31,867	0	31,867	0	0
1966	2,652,688	0	2,652,688	0	0
1967	15,933,006	0	15,933,006	0	0
1968	52,524,619	0	52,524,619	0	0
1969	60,886,964	0	60,886,964	0	0
1970	70,006,786	465,167	70,471,953	0	0
1971	66,161,697	631,601	66,793,298	0	0
1972	63,742,157	594,426	64,336,583	0	0
1973	61,714,937	712,370	62,427,307	0	0
1974	59,933,837	696,352	60,630,189	0	0
1975	60,034,539	674,685	60,709,224	0	0
1976	54,511,252	679,616	55,190,868	0	0
1977	49,839,033	777,030	50,616,063	0	0
1978	45,039,005	748,812	45,787,817	0	0
1979	38,358,066	554,634	38,922,700	0	0
1980	32,308,682	417,814	32,726,496	0	0
1981	27,957,666	489,488	28,447,154	0	0
1982	24,229,745	451,160	24,680,905	0	0
1983	21,576,014	335,886	21,911,900	0	0
1984	19,307,065	321,704	19,628,769	0	0
1985	14,632,586	197,513	14,830,099	0	0
1986	15,367,307	230,691	15,597,998	0	0
1987	22,742,244	199,985	22,942,229	0	0
1988	50,889,832	654,520	51,544,352	0	0
1989	49,358,957	843,239	50,202,196	0	0
1990	46,780,360	872,971	47,653,331	0	0
1991	54,501,534	1,217,176	55,718,710	0	0
1992	<u>54,834,271</u>	<u>1,479,134</u>	<u>56,313,405</u>	<u>0</u>	<u>0</u>
Total	1,135,866,716	14,245,974	1,150,112,690	0	0

¹ Increase in oil and condensate production caused by *Endicott Field* production (two offshore man-made islands, North Slope).

NOTE: See table 24 for comparable data on natural gas production from the State's offshore leases.

SOURCE: *State Production* — Alaska Oil and Gas Conservation Commission.

Table 19. California Offshore: Federal and State Crude Oil and Condensate Production, pre-1933-92

Year	State Production			Federal & State Production		
	Crude Oil ¹ (bbl)	Condensate ¹ (bbl)	Total (bbl)	Federal OCS Total (bbl)	Federal OCS & State Total (bbl)	Federal OCS (Percent of Total)
pre-1933	N/A	N/A	28,061,000	0	28,061,000	0
1933-53	N/A	N/A	394,324,000	0	394,324,000	0
1954	N/A	N/A	32,665,000	0	32,665,000	0
1955	N/A	N/A	33,252,000	0	33,252,000	0
1956	N/A	N/A	32,348,000	0	32,348,000	0
1957	N/A	N/A	30,561,000	0	30,561,000	0
1958	N/A	N/A	28,363,000	0	28,363,000	0
1959	N/A	N/A	26,787,000	0	26,787,000	0
1960	N/A	N/A	28,074,000	0	28,074,000	0
1961	N/A	N/A	29,887,000	0	29,887,000	0
1962	N/A	N/A	34,613,000	0	34,613,000	0
1963	N/A	N/A	38,346,000	0	38,346,000	0
1964	N/A	N/A	40,526,000	0	40,526,000	0
1965	N/A	N/A	42,772,000	0	42,772,000	0
1966	N/A	N/A	53,294,000	0	53,294,000	0
1967	N/A	N/A	64,807,000	0	64,807,000	0
1968	N/A	N/A	83,279,000	2,076,160	85,355,160	2.4
1969	88,635,955	425,045	89,061,000	9,942,733	99,003,733	10.0
1970	79,227,885	276,341	79,504,226	25,035,171	104,539,397	23.9
1971	70,623,439	195,575	70,819,014	31,103,681	101,922,695	30.5
1972	73,028,202	140,309	73,168,511	22,562,566	95,731,077	23.6
1973	70,480,460	102,122	70,582,582	18,818,026	89,400,608	21.0
1974	67,139,497	67,333	67,206,830	16,784,100	83,990,930	20.0
1975	64,236,367	37,594	64,273,961	15,434,507	79,708,468	19.4
1976	56,615,279	30,773	56,646,052	13,977,436	70,623,488	19.8
1977	48,196,061	27,864	48,223,925	12,258,013	60,481,938	20.3
1978	43,504,171	20,444	43,524,615	11,979,694	55,504,289	21.6
1979	42,184,333	18,241	42,202,574	10,971,013	53,173,587	20.6
1980	39,966,673	12,179	39,978,852	10,118,614	50,097,466	20.2
1981	39,154,316	10,367	39,164,683	19,619,670	58,784,353	33.4
1982	39,801,922	8,665	39,810,587	28,471,665	68,282,252	41.7
1983	37,695,467	7,120	37,702,587	30,558,866	68,261,453	44.8
1984	39,503,415	4,885	39,508,300	30,500,506	70,008,806	43.6
1985	39,503,348	85,492	39,588,840	29,673,649	69,262,489	42.8
1986	34,633,031	64,438	34,697,469	28,779,936	63,477,405	45.3
1987	30,335,628	24,766	30,360,394	31,279,566	61,639,960	52.7
1988	28,193,032	9,820	28,202,852	31,529,776	59,732,628	53.8
1989	25,390,894	6,090	25,396,984	33,074,530	58,471,514	56.6
1990	23,553,257	5,890	23,559,147	29,847,869	53,407,016	55.9
1991	23,243,332	0	23,243,332	31,641,553	54,884,885	57.7
1992	<u>21,943,748</u>	<u>0</u>	<u>21,943,748</u>	<u>42,699,617</u>	<u>64,643,365</u>	<u>66.1</u>
Total	1,104,845,964	1,581,353	2,128,386,317	526,039,280	2,654,425,597	19.8

¹ State offshore figures are not available (N/A) except as two lump sums through 1953 and only as combined yearly totals through 1968. State totals are rounded to the nearest thousand through 1969.

NOTE: See table 25 for comparable data on natural gas production.

SOURCE: State Production data through 1968 — Conservation Committee of California; 1969-92 — the State of California Division of Oil and Gas.

Table 20. Louisiana Offshore: Federal and State Crude Oil and Condensate Production, 1941-92

Year	State Production			Federal & State Production		
	Crude Oil (bbl)	Condensate (bbl)	Total (bbl)	Federal OCS Total (bbl)	Federal OCS & State Total (bbl)	Federal OCS (Percent of Total)
1941-53	22,405,822	0	22,405,822	1,266,284	23,672,106	5.3
1954	12,807,659	0	12,807,659	2,416,684	15,224,343	15.9
1955	20,428,368	3,096	20,431,464	3,838,860	24,270,324	15.8
1956	31,627,143	14,675	31,641,818	7,030,682	38,672,500	18.2
1957	37,997,383	441,629	38,439,012	11,819,086	50,258,098	23.5
1958	33,377,129	960,981	34,338,110	19,693,626	54,031,736	36.4
1959	38,633,234	1,086,855	39,720,089	29,627,876	69,347,965	42.7
1960	42,621,220	1,345,871	43,967,091	40,608,419	84,575,510	48.0
1961	42,499,174	1,477,544	43,976,718	55,640,370	99,617,088	55.9
1962	45,638,924	1,221,157	47,060,081	76,760,007	123,820,088	62.0
1963	48,166,750	1,056,747	49,223,497	96,338,161	145,561,658	66.2
1964	51,682,587	2,104,023	53,786,610	111,259,777	165,046,387	67.4
1965	48,753,046	4,499,953	53,252,999	165,963,347	219,216,346	75.7
1966	50,630,341	6,067,097	56,697,438	174,262,585	230,960,023	75.5
1967	57,262,205	7,778,015	65,040,220	206,895,491	271,935,711	76.1
1968	57,741,273	8,907,618	66,648,891	250,750,797	317,399,688	79.0
1969	58,434,872	8,815,786	67,250,658	289,461,139	356,711,797	81.1
1970	64,645,894	7,417,311	72,063,205	326,929,906	398,993,111	81.9
1971	63,047,255	6,014,111	69,061,366	374,093,809	443,155,175	84.4
1972	65,197,043	5,987,517	71,184,560	371,664,657	442,849,217	83.9
1973	49,794,738	5,162,941	54,957,679	364,391,357	419,349,036	86.9
1974	42,399,558	4,289,003	46,688,561	336,763,253	383,451,814	87.8
1975	37,017,112	3,945,210	40,962,322	308,821,939	349,784,261	88.3
1976	34,695,350	3,662,830	38,358,180	229,172,903	337,531,083	88.6
1977	30,477,122	3,327,557	33,804,679	282,795,323	316,600,002	89.3
1978	28,840,730	3,524,770	32,365,500	273,932,263	306,297,763	89.4
1979	25,990,275	3,369,666	29,359,941	259,887,654	289,247,595	89.8
1980	24,834,002	2,757,941	27,591,943	255,335,863	282,927,806	90.2
1981	23,884,965	2,334,686	26,219,651	250,329,678	276,549,329	90.5
1982	22,710,467	2,115,177	24,825,644	269,091,969	293,917,613	91.6
1983	22,340,535	1,973,935	24,314,470	300,460,274	324,774,744	92.5
1984	24,981,437	1,871,249	26,852,686	333,068,442	359,921,128	92.5
1985	22,204,428	1,543,377	23,747,805	330,507,292	354,255,097	93.3
1986	23,719,223	2,000,725	25,719,948	335,358,029	361,077,977	92.9
1987	23,174,339	1,727,436	24,901,775	303,086,548	327,988,323	92.4
1988	22,434,692	1,649,256	24,083,948	273,655,098	297,739,046	91.9
1989	20,743,514	1,819,599	22,563,113	252,987,039	275,550,152	91.8
1990	21,128,443	1,701,098	22,829,541	249,650,229	272,479,770	91.6
1991	21,476,805	1,791,408	23,268,213	270,329,209	293,597,422	92.1
1992	20,644,191	1,549,045	22,193,236	271,621,791	293,815,027	92.4
Total	1,437,289,248	117,316,895	1,554,606,143	8,437,567,716	9,892,173,859	84.4

NOTE: See table 26 for comparable data on natural gas production.

SOURCE: State Production — State of Louisiana Department of Natural Resources, Office of Conservation.

Table 21. Texas Offshore: Crude Oil and Condensate, 1954-92 — Federal and State Comparison

Year	State Production			Federal & State Production		
	Crude Oil ¹ (bbl)	Condensate ¹ (bbl)	Total (bbl)	Federal OCS Total (bbl)	Federal OCS & State Total (bbl)	Federal OCS (Percent of Total)
1954	N/A	N/A	10,000	0	10,000	0.0
1955	N/A	N/A	154,000	2,472	156,472	1.6
1956	N/A	N/A	127,000	13,028	140,028	9.3
1957	N/A	N/A	250,000	5,641	255,641	2.2
1958	N/A	N/A	470,000	0	470,000	0.0
1959	N/A	N/A	499,000	260	499,260	0.1
1960	N/A	N/A	567,000	0	567,000	0.0
1961	N/A	N/A	292,000	0	292,000	0.0
1962	N/A	N/A	800,000	5,304	805,304	0.7
1963	N/A	N/A	616,000	53,135	669,135	7.9
1964	N/A	N/A	573,000	4,929	577,929	0.9
1965	N/A	N/A	553,000	6,309	559,309	1.1
1966	111,782	255,812	367,594	1,207,439	1,575,033	76.7
1967	109,733	170,348	280,081	2,643,173	2,923,254	90.4
1968	34,090	501,929	536,019	3,103,946	3,639,965	85.3
1969	194,460	29,268	223,728	2,784,119	3,007,847	92.6
1970	344,872	434,638	779,510	2,210,753	2,990,263	73.9
1971	301,092	172,925	474,017	1,715,100	2,189,117	78.3
1972	262,179	477,603	739,782	1,758,514	2,498,296	70.4
1973	311,731	355,824	667,555	1,587,370	2,254,925	70.4
1974	285,249	292,861	578,110	1,378,378	1,956,488	70.5
1975	149,579	204,226	353,805	1,020,668	1,374,473	74.3
1976	344,401	364,145	708,546	1,373,403	2,081,949	66.0
1977	1,014,854	1,605,401	2,620,255	894,976	3,515,231	25.5
1978	863,308	1,594,297	2,457,605	2,044,924	4,502,529	45.4
1979	760,504	1,783,595	2,544,099	3,378,460	5,922,559	57.0
1980	574,995	1,387,576	1,962,571	9,277,702	11,240,273	82.5
1981	1,039,463	784,301	1,823,764	12,973,728	14,797,492	87.7
1982	922,763	831,514	1,754,277	16,959,593	18,713,870	90.6
1983	1,824,242	462,307	2,286,549	19,775,117	22,061,666	89.6
1984	1,753,154	347,597	2,100,751	21,562,495	23,663,246	91.1
1985	1,779,269	396,361	2,175,630	19,841,063	22,016,693	90.1
1986	1,816,738	274,718	2,091,456	20,184,215	22,275,671	90.6
1987	1,564,683	224,119	1,788,802	24,466,640	26,255,442	93.2
1988	1,272,823	226,774	1,499,597	27,517,318	29,016,915	94.8
1989	1,334,570	283,706	1,618,276	27,677,904	29,296,180	94.5
1990	1,298,719	470,061	1,768,780	24,983,849	26,752,629	93.4
1991	2,049,597	402,910	2,452,507	24,415,091	26,867,598	90.0
1992	<u>1,876,320</u>	<u>262,178</u>	<u>2,138,498</u>	<u>23,594,391</u>	<u>25,732,889</u>	<u>91.7</u>
Total	24,195,170	14,596,994	38,792,164	300,330,329	339,122,493	88.6

¹ Separate crude oil and condensate figures are not available (NA) from the State before 1966 and the combined totals are rounded to the nearest thousand through 1965.

NOTE: See table 27 for comparable data on natural gas production

SOURCE: *State Production* — Railroad Commission of Texas, Oil and Gas Division

Table 22. State Offshore and Federal OCS: Crude Oil and Condensate Production Total, pre- 1954-92

<i>Year</i>	<i>State Production (bbl)</i>	<i>Federal OCS (bbl)</i>	<i>Total (bbl)</i>	<i>Federal OCS (Percent of Total)</i>
pre-1954	444,790,822	¹ 1,266,284	446,057,106	0.3
1954	45,482,659	2,416,684	47,899,343	5.0
1955	53,837,464	3,841,332	57,678,796	6.7
1956	64,116,818	7,043,710	71,160,528	9.9
1957	69,250,012	11,824,727	81,074,739	14.6
1958	63,171,110	19,693,626	82,864,736	23.8
1959	67,006,089	29,628,136	96,634,225	30.7
1960	72,608,091	40,608,419	113,216,510	35.9
1961	74,155,718	55,640,370	129,796,088	42.9
1962	82,473,081	76,765,311	159,238,392	48.2
1963	88,185,497	96,391,296	184,576,793	52.2
1964	94,885,610	111,264,706	206,150,316	54.0
1965	96,609,866	165,969,656	262,579,522	63.2
1966	113,011,720	175,470,024	288,481,744	60.8
1967	146,060,307	209,538,664	355,598,971	58.9
1968	202,988,529	255,930,903	458,919,432	55.8
1969	217,422,350	302,187,991	519,610,341	58.2
1970	222,818,894	354,175,830	576,994,724	61.4
1971	207,147,695	406,912,590	614,060,285	66.3
1972	209,429,436	395,985,737	605,415,173	65.4
1973	188,635,123	384,796,753	573,431,876	67.1
1974	175,103,690	354,925,731	530,029,421	67.0
1975	166,299,312	325,277,114	491,576,426	66.2
1976	150,903,646	314,523,742	465,427,388	67.6
1977	135,264,922	295,948,312	431,213,234	68.6
1978	124,135,537	287,956,861	412,092,398	69.9
1979	113,029,314	274,237,127	387,266,441	70.8
1980	102,259,862	274,732,179	376,992,041	72.9
1981	95,655,252	282,923,076	378,578,328	74.7
1982	91,071,413	314,523,227	405,594,640	77.5
1983	86,215,506	350,794,257	437,009,763	80.3
1984	88,090,506	385,131,443	473,221,949	81.4
1985	80,342,374	380,022,004	460,364,378	82.5
1986	78,106,871	384,322,180	462,429,051	83.1
1987	79,993,200	358,832,754	438,825,954	81.8
1988	105,330,749	332,702,192	438,032,941	76.0
1989	99,780,569	313,739,473	413,520,042	75.9
1990	95,810,799	304,481,947	400,292,746	76.1
1991	104,682,762	326,385,853	431,068,615	75.7
1992	<u>102,588,887</u>	<u>337,915,799</u>	<u>440,504,686</u>	<u>76.7</u>
Total	4,898,752,062	9,306,728,020	14,205,480,082	66.5

¹ Production from Federal leases on the OCS began after 1953; however, reporting of both production and royalties was transferred from certain pre-1954 wells located in Federal waters.

NOTE: Louisiana and California had offshore leases in production before 1954. See tables 17, 18, 19, 20 and 21 for crude oil and condensate data; for Alabama, Alaska, California, Louisiana, and Texas, respectively.

Table 23. Alabama Offshore: Casinghead and Dry Gas, 1987-92 — Federal and State Comparison

Year	State Production	Federal & State Production		
	Dry Gas (Mcf)	Federal OCS (Mcf)	Federal OCS & State Total (Mcf)	Federal OCS (Percent of Total)
1987	41,986	0	41,986	0
1988	9,439,888	0	9,439,888	0
1989	12,876,571	0	12,876,571	0
1990	19,969,761	0	19,969,761	0
1991	32,602,862	0	32,602,862	0
1992	<u>111,644,951</u>	<u>79,307,238</u>	<u>190,952,189</u>	<u>41.5</u>
Total	186,576,019	79,307,238	265,883,257	29.8

NOTE: See table 17 for comparable data on crude oil and condensate production.

SOURCE: State Production — State Oil and Gas Board of Alabama.

Table 24. Alaska Offshore: Casinghead and Dry Gas, 1965-92 — Federal and State Comparison

Year	State Production			Federal OCS Production	
	Casinghead Gas (Mcf)	Dry Gas (Mcf)	Total (Mcf)	Federal OCS Total (Mcf)	Federal OCS (Percent of Total)
1965	10,861	0	10,861	0	0
1966	1,193,588	0	1,193,588	0	0
1967	8,997,159	0	8,997,159	0	0
1968	25,635,279	31,346	25,666,625	0	0
1969	30,565,788	12,442,833	43,008,620	0	0
1970	37,289,784	45,398,212	82,687,996	0	0
1971	37,524,667	48,332,760	85,857,426	0	0
1972	30,825,064	45,576,373	76,401,437	0	0
1973	26,914,300	47,335,335	74,249,635	0	0
1974	23,447,569	50,821,371	74,268,940	0	0
1975	22,552,799	53,327,355	75,880,154	0	0
1976	22,105,909	51,634,187	73,740,096	0	0
1977	22,479,313	54,639,108	77,118,421	0	0
1978	20,387,894	54,124,023	74,511,916	0	0
1979	16,502,925	56,893,474	73,396,398	0	0
1980	15,268,701	48,924,007	64,192,708	0	0
1981	14,812,542	56,923,248	71,735,790	0	0
1982	13,724,272	54,298,247	68,022,519	0	0
1983	12,172,936	56,501,727	68,674,662	0	0
1984	11,258,011	57,051,959	68,309,970	0	0
1985	9,412,310	53,042,278	62,454,588	0	0
1986	9,150,629	53,487,964	62,638,593	0	0
1987	16,239,041	53,236,778	69,475,818	0	0
1988	43,601,909	57,878,041	101,479,950	0	0
1989	50,264,533	72,430,167	122,694,700	0	0
1990	49,424,293	94,642,047	144,066,340	0	0
1991	70,931,371	100,733,152	171,664,523	0	0
1992	<u>106,310,788</u>	<u>110,066,434</u>	<u>216,377,221</u>	<u>0</u>	<u>0</u>
Total	749,004,229	1,389,772,425	2,138,776,654	0	0

¹ Increase in gas and casinghead gas production caused by *Endicott Field* production (two offshore man-made islands, North Slope).
NOTE: See table 18 for comparable data on crude oil and condensate production from the State's offshore leases.

SOURCE: *State Production* — Alaska Oil and Gas Conservation Commission.

Table 25. California Offshore: Casinghead and Dry Gas, 1960-92 — Federal and State Comparison

Year	State Production			Federal & State Production		
	Casinghead ¹ Gas (Mcf)	Dry Gas ¹ (Mcf)	Total (Mcf)	Federal OCS Total (Mcf)	Federal OCS & State Total (Mcf)	Federal OCS (Percent of Total)
1960	N/A	N/A	1,113,000	0	1,113,000	0.0
1961	N/A	N/A	5,903,000	0	5,903,000	0.0
1962	N/A	N/A	10,671,000	0	10,671,000	0.0
1963	N/A	N/A	25,769,000	0	25,769,000	0.0
1964	N/A	N/A	35,323,000	0	35,323,000	0.0
1965	N/A	N/A	40,770,000	0	40,770,000	0.0
1966	N/A	N/A	46,839,000	0	46,839,000	0.0
1967	N/A	N/A	46,732,000	0	46,792,000	0.0
1968	N/A	N/A	85,765,000	1,237,180	87,002,180	1.4
1969	44,701,265	34,356,739	79,058,004	6,016,485	85,074,489	7.1
1970	33,098,387	25,793,815	58,892,202	13,757,148	72,649,350	18.9
1971	27,539,950	18,236,683	45,776,633	17,853,055	63,629,688	28.1
1972	22,394,587	12,352,539	34,747,126	12,546,915	47,294,041	26.5
1973	20,921,819	9,674,530	30,596,349	9,157,714	39,754,063	23.0
1974	18,788,339	10,142,744	28,931,083	7,234,937	36,166,020	20.0
1975	16,580,811	6,739,235	23,320,046	5,978,959	29,299,005	20.4
1976	13,703,065	5,280,849	18,983,914	5,533,258	24,517,172	22.6
1977	11,152,000	3,085,185	14,237,185	5,366,181	19,603,366	27.4
1978	10,659,570	3,536,577	14,196,147	5,193,985	19,390,132	26.8
1979	11,415,873	2,134,394	13,550,267	5,430,689	18,980,956	28.6
1980	10,628,256	2,446,480	13,074,736	5,771,792	18,846,528	30.6
1981	11,300,192	2,170,475	13,470,667	12,769,110	26,239,777	48.7
1982	12,075,887	1,931,298	14,007,185	17,814,958	31,822,143	56.0
1983	12,054,614	1,798,652	13,853,266	23,923,258	37,776,524	63.3
1984	12,517,184	1,319,403	13,836,587	45,912,435	59,749,022	76.8
1985	13,356,754	6,126,304	19,483,058	63,523,094	83,006,152	76.5
1986	12,911,086	5,341,798	18,252,884	57,989,035	76,241,919	76.1
1987	10,936,678	2,067,900	13,004,578	54,872,217	67,876,795	80.0
1988	9,659,808	1,055,404	10,715,212	49,132,759	59,847,971	82.1
1989	8,173,175	855,205	9,028,380	50,870,767	59,899,147	84.9
1990	7,664,748	340,226	8,004,974	49,948,905	57,953,879	86.2
1991	7,577,376	0	7,577,376	52,582,858	60,160,234	87.4
1992	<u>7,210,620</u>	<u>0</u>	<u>7,210,620</u>	<u>55,116,176</u>	<u>62,326,796</u>	<u>88.4</u>
Total	367,022,044	156,786,435	815,482,859	635,533,870	1,458,227,349	43.6

¹ Separate casinghead and dry gas figures are not available (N/A) from the State before 1968, and the combined totals are rounded to the nearest thousand through 1968.

NOTE: See table 19 for comparable statistics on crude oil and condensate production from the State's offshore leases.

SOURCE: State Production data through 1968 — Conservation Committee of California; 1969-92 — State of California, Division of Oil and Gas.

Table 26. Louisiana Offshore: Casinghead and Dry Gas, 1941-92 —Federal and State Comparison

Year	State Production			Federal & State Comparison		
	Casinghead Gas (Mcf)	Dry Gas (Mcf)	Total (Mcf)	Federal OCS Total (Mcf)	Federal & OCS State Total (Mcf)	Federal OCS (Percent of Total)
1941-53	14,332,724	2,705,913	17,038,636	25,382,974	42,421,611	60.0
1954	9,379,658	1,784,267	11,163,925	61,104,514	72,268,439	84.5
1955	17,467,816	4,160,199	21,628,015	89,174,039	110,802,054	80.5
1956	28,770,662	7,233,098	36,003,759	92,658,051	128,661,810	72.3
1957	37,283,975	21,089,443	58,373,419	95,201,718	153,575,137	62.0
1958	30,672,719	45,118,435	75,791,154	146,476,573	222,267,727	66.0
1959	38,817,599	48,354,540	87,172,139	228,816,444	315,988,583	72.4
1960	46,874,757	61,691,807	108,566,564	287,184,398	395,750,962	72.4
1961	48,409,419	70,895,907	119,305,327	341,457,127	460,762,454	74.9
1962	53,240,138	79,819,450	133,059,588	460,395,415	593,455,003	77.6
1963	55,726,366	91,011,320	146,737,686	571,700,603	718,438,289	79.6
1964	56,786,776	103,877,134	160,663,910	657,509,495	818,173,405	80.4
1965	49,433,348	182,222,010	231,655,358	757,581,636	989,236,994	76.6
1966	50,968,519	251,566,341	302,534,860	972,207,948	1,274,742,808	76.3
1967	54,317,020	369,554,113	423,871,133	1,203,364,312	1,627,235,446	74.0
1968	56,253,978	472,990,977	529,244,955	1,518,507,284	2,047,752,239	74.2
1969	53,833,593	545,405,312	599,238,904	1,861,111,518	2,460,350,422	75.6
1970	67,542,844	571,546,073	639,088,917	2,315,355,871	2,954,444,788	78.4
1971	78,567,075	536,263,122	614,830,197	2,655,012,406	3,269,842,603	81.2
1972	84,243,335	562,850,168	647,093,504	2,911,641,756	3,558,735,260	81.8
1973	66,356,517	531,680,844	598,037,361	3,224,027,930	3,822,065,291	84.4
1974	59,070,604	497,624,430	556,695,034	3,344,660,590	3,901,355,624	85.7
1975	48,622,260	497,757,280	546,379,540	3,388,408,510	3,934,788,050	86.1
1976	43,806,173	507,688,189	551,494,362	3,532,017,404	4,083,511,766	86.5
1977	36,145,673	486,808,112	522,953,785	3,755,522,498	4,278,476,283	87.8
1978	30,300,913	496,920,395	527,221,308	4,083,241,273	4,610,462,581	88.6
1979	26,289,968	487,380,218	513,670,186	4,223,175,877	4,736,846,064	89.2
1980	22,979,195	417,236,745	440,215,940	4,190,788,707	4,631,004,647	90.5
1981	22,157,056	381,008,582	403,165,638	4,246,663,721	4,649,829,358	91.3
1982	23,657,754	363,118,935	386,776,689	3,873,552,714	4,260,329,403	91.0
1983	26,514,509	313,542,702	340,057,211	3,296,250,261	3,636,307,472	90.7
1984	30,104,263	306,618,200	336,722,463	3,746,674,125	4,083,396,588	91.8
1985	29,142,993	217,557,800	246,700,792	3,300,855,500	3,547,556,292	93.1
1986	32,539,589	211,970,831	244,510,421	3,069,670,092	3,314,180,513	92.6
1987	28,703,498	208,515,913	237,219,411	3,384,342,974	3,621,562,386	93.5
1988	23,953,736	201,944,180	225,897,916	3,390,418,253	3,616,316,169	93.8
1989	22,677,548	192,029,009	214,706,556	3,380,040,292	3,594,746,848	94.0
1990	20,952,494	170,806,515	191,759,009	3,553,534,364	3,745,293,372	94.9
1991	21,227,336	137,743,228	158,970,564	3,407,500,570	3,566,471,134	95.5
1992	21,633,887	123,340,074	144,973,961	3,303,614,473	3,448,588,435	95.8
Total	1,569,758,288	10,781,431,812	12,351,190,100	88,946,804,209	101,297,994,309	87.8

NOTE: Only lump sums are available from the State for the 13 years before 1954. See table 20 for comparable data on crude oil and condensate production from State offshore leases.

SOURCE: State Production—State of Louisiana Department of Natural Resources, Office of Conservation

Table 27. Texas Offshore: Casinghead and Dry Gas, 1954-92 —Federal and State Comparison

Year	State Production ¹			Federal & State Comparison		
	Casinghead Gas (Mcf)	Non-Associated Gas ² (Mcf)	Total (Mcf)	Federal OCS Total (Mcf)	Federal OCS & State Total (Mcf)	Federal OCS (Percent of Total)
1954	N/A	N/A	3,421,317	0	3,421,317	>0.1
1955	N/A	N/A	6,842,634	4,721	6,847,356	0.1
1956	N/A	N/A	6,842,634	19,869	6,862,503	0.1
1957	N/A	N/A	13,685,470	11,199	13,696,669	0.1
1958	N/A	N/A	23,949,219	0	23,949,219	>0.1
1959	N/A	N/A	23,949,219	875	23,950,094	>0.1
1960	N/A	N/A	30,791,853	0	30,791,853	>0.1
1961	N/A	N/A	13,685,268	0	13,685,268	>0.1
1962	N/A	N/A	41,055,804	6,278	41,062,082	>0.1
1963	N/A	N/A	30,791,853	180,615	30,972,468	0.6
1964	N/A	N/A	30,791,853	23,295	30,815,148	0.1
1965	N/A	N/A	27,370,536	41,426	27,411,962	0.2
1966	N/A	N/A	21,505,526	40,150,762	61,656,288	65.1
1967	N/A	N/A	60,514,123	107,543,591	168,057,714	63.9
1968	N/A	N/A	189,742,133	113,557,526	303,299,659	37.4
1969	N/A	N/A	110,356,829	129,081,554	239,438,383	53.9
1970	1,742,382	128,904,947	130,647,330	134,791,079	265,438,409	50.8
1971	2,037,525	105,616,692	107,654,216	129,438,526	237,092,743	54.6
1972	1,942,907	127,476,403	129,419,310	153,397,624	282,816,935	54.2
1973	1,205,732	100,602,652	101,808,384	155,355,870	257,164,254	60.4
1974	1,120,077	107,882,031	109,002,108	143,243,176	252,245,284	56.8
1975	731,334	96,693,840	97,425,175	108,195,579	205,620,754	52.6
1976	974,728	111,820,323	112,795,052	96,993,975	209,789,026	46.2
1977	2,219,152	178,102,830	180,321,981	87,303,092	267,625,073	32.6
1978	2,236,064	166,982,506	169,218,570	41,962,843	211,181,413	19.9
1979	1,772,569	204,717,169	206,489,739	542,956,105	749,445,844	72.5
1980	1,873,587	251,122,036	252,995,623	671,305,577	924,301,200	72.6
1981	3,278,425	232,143,174	235,421,600	742,027,954	977,449,554	75.9
1982	2,769,594	242,855,956	245,625,550	886,977,924	1,132,603,474	78.3
1983	3,381,651	143,948,103	147,329,754	861,441,382	1,008,771,136	85.4
1984	3,391,242	108,090,617	111,481,860	909,615,709	1,021,097,569	89.1
1985	3,491,506	104,051,921	107,543,426	838,808,151	946,351,577	88.6
1986	2,346,529	112,154,478	114,501,007	1,055,356,244	1,169,857,250	90.2
1987	2,997,255	95,053,454	98,050,709	1,231,878,168	1,329,928,877	92.6
1988	1,601,270	95,943,562	97,544,832	1,279,608,530	1,377,153,362	92.0
1989	2,502,648	108,398,202	110,900,849	1,349,695,952	1,460,596,801	92.4
1990	994,541	107,408,998	108,403,540	1,454,239,629	1,562,643,169	93.1
1991	1,607,991	96,884,485	98,492,476	1,396,382,102	1,494,874,579	93.4
1992	1,625,253	76,638,024	78,263,277	1,332,886,775	1,411,150,053	94.5
Total	47,843,962	3,103,492,406	3,786,632,640	15,994,483,680	19,781,116,320	80.9

¹ State offshore figures are not available (N/A) except as combined totals from 1954-69. Totals were rounded to the nearest thousand through 1965.

² Texas reports natural gas production as wet gas by State statute.

NOTE: See table 21 for comparable data on crude oil and condensate production.

SOURCE: State Production—Railroad Commission of Texas, Oil and Gas Division

Table 28. State Offshore and Federal OCS: Casinghead and Dry Gas Totals, pre- 1954-92

<i>Year</i>	<i>State Production (Mcf)</i>	<i>Federal OCS Production (Mcf)</i>	<i>Total (Mcf)</i>	<i>Federal OCS Production (Percent of Total)</i>
pre-1954	17,038,636	25,382,974	42,421,611	59.8
1954	14,585,242	61,104,514	75,689,756	80.7
1955	28,470,650	89,178,760	117,649,410	75.8
1956	42,846,393	92,677,920	135,524,314	68.4
1957	72,058,889	95,212,917	167,271,805	56.9
1958	99,740,373	146,476,573	246,216,946	59.5
1959	111,121,359	228,817,319	339,938,678	67.3
1960	140,471,417	287,184,398	427,655,815	67.2
1961	138,893,595	341,457,127	480,350,722	71.1
1962	184,786,392	460,401,693	645,188,085	71.4
1963	203,298,539	571,881,217	775,179,757	73.8
1964	226,778,763	657,532,791	884,311,554	74.4
1965	299,806,755	757,623,062	1,057,429,817	71.7
1966	372,072,973	1,012,358,710	1,384,431,683	73.1
1967	540,114,415	1,310,907,903	1,851,022,318	70.8
1968	830,418,713	1,633,301,990	2,463,720,703	66.3
1969	831,662,358	1,996,209,557	2,827,871,915	70.6
1970	911,316,444	2,463,904,098	3,375,220,542	72.9
1971	854,118,473	2,802,303,987	3,656,422,460	76.6
1972	887,661,378	3,077,586,295	3,965,247,672	77.6
1973	804,691,729	3,388,541,513	4,193,233,242	80.8
1974	768,897,165	3,495,138,703	4,264,035,868	81.9
1975	743,004,914	3,502,583,049	4,245,587,963	82.5
1976	757,013,424	3,634,544,637	4,391,558,061	82.8
1977	794,631,373	3,848,191,771	4,642,823,143	82.9
1978	785,147,942	4,130,398,100	4,915,546,042	84.0
1979	807,106,590	4,771,562,671	5,578,669,261	85.5
1980	770,479,007	4,867,866,076	5,638,345,083	86.3
1981	723,793,695	5,001,460,785	5,725,254,480	87.4
1982	714,431,944	4,778,345,596	5,492,777,540	86.9
1983	569,914,893	4,181,614,901	4,751,529,794	88.1
1984	530,350,879	4,702,202,270	5,232,553,149	89.9
1985	436,181,864	4,203,186,745	4,639,368,609	90.6
1986	439,902,904	4,183,015,371	4,622,918,275	90.5
1987	417,792,502	4,671,135,345	5,088,927,847	91.8
1988	445,077,798	4,728,599,430	5,173,677,228	91.4
1989	470,207,057	4,793,483,582	5,263,690,639	91.1
1990	472,203,623	5,077,692,659	5,549,896,282	91.5
1991	469,307,801	4,842,382,241	5,311,690,042	91.2
1992	558,470,031	4,770,924,663	5,329,394,694	89.5
Total	19,285,868,892	105,684,373,914	124,970,242,806	84.6

NOTE: Production from Federal leases on the OCS began after 1953, with passage of the SLS, when certain pre-OCS leases already in production on Federal lands were transferred to the Federal Government. See tables 23, 24, 25, 26, and 27 on natural gas production from Alabama, Alaska, California, Louisiana, and Texas, respectively.

Table 29. Oil Production — Producing OCS Operators In 1992

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	<u>Gulf of Mexico OCS</u>		<u>Pacific</u>	Field Volume (bbl)
		Crude Oil (bbl)	Condensate (bbl)	Crude Oil & Condensate (bbl)	
1	Chevron USA, Inc.	46,640,064	6,002,358	12,464,165	65,106,587
2	Shell Offshore, Inc.	50,038,321	2,283,106	0	52,321,427
3	Exxon Corp.	18,394,657	1,048,266	8,155,165	27,598,088
4	Conoco, Inc.	19,925,358	2,623,591	0	22,548,949
5	Union Oil Company of California	5,475,674	1,306,252	10,490,257	17,272,183
6	Mobil Oil Exploration & Production	10,952,483	2,512,495	0	13,464,978
7	Texaco Exploration & Production	11,712,496	1,266,171	0	12,978,667
8	Marathon Oil Company	10,785,101	346,570	0	11,131,671
9	Freeport-McMoran, Inc.	9,901,761	201,538	0	10,103,299
10	Pennzoil Exploration & Production	7,173,399	973,301	0	8,146,700
	<i>Subtotal (1-10)</i>	190,999,314	18,563,648	31,109,587	240,672,549
11	Mobil Producing Texas & New Mexico Inc.	4,793,557	2,885,203	0	7,678,760
12	Texaco Inc.	9,674	24,692	6,758,026	6,792,392
13	BP Exploration & Oil, Inc.	6,306,562	297,550	0	6,604,112
14	Odeco Oil & Gas Company	4,799,858	1,098,428	0	5,898,286
15	Atlantic Richfield Company	3,749,601	1,091,617	0	4,841,218
16	Amoco Production Company	2,337,864	2,039,503	0	4,377,367
17	Shell Western Expl. & Prod., Inc.	0	0	4,009,211	4,009,211
18	AGIP Petroleum Co., Inc.	3,925,276	56,186	0	3,981,462
19	Kerr-McGee Corp.	2,525,221	1,119,823	0	3,645,044
20	Unocal Exploration Corp.	2,757,827	669,095	0	3,426,922
	<i>Subtotal (1-20)</i>	222,204,754	27,845,745	41,876,824	291,927,323
21	CNG Producing Company	836,589	2,530,320	0	3,366,909
22	Hall-Houston Oil Company	2,493,323	561,974	0	3,055,297
23	Torch Operating Company	2,522,541	492,060	0	3,014,601
24	Delmar Operating, Inc.	1,413,145	1,145,868	0	2,559,013
25	Amerada Hess Corp.	1,241,130	1,107,181	0	2,348,311
26	Nerco Oil & Gas, Inc.	1,047,701	1,144,116	0	2,191,817
27	Walter Oil & Gas Corp.	270,307	1,580,581	0	1,850,888
28	Elf Exploration, Inc.	1,744,107	54,744	0	1,798,851
29	Phillips Petroleum Company	654,546	1,142,004	0	1,796,550
30	Samedan Oil Corp.	1,451,091	284,403	0	1,735,494
	<i>Subtotal (1-30)</i>	235,879,234	37,888,996	41,876,824	315,645,054
31	Newfield Exploration Company	1,412,614	313,154	0	1,725,768
32	Forest Oil Corp.	1,433,937	289,185	0	1,723,122
33	BP Exploration Inc.	1,429,055	114,326	0	1,543,381
34	Shell Frontier Oil & Gas, Inc.	1,279,393	111,920	0	1,391,313
34	Sonat Exploration Company	518,056	484,044	0	1,002,100
35	Apache Corp.	491,730	445,663	0	937,393

Table 29. Oil Production — Producing OCS Operators in 1992 —continued

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	<u>Gulf of Mexico OCS</u>		<u>Pacific</u>	Field Volume (bbl)
		Crude Oil (bbl)	Condensate (bbl)	Crude Oil & Condensate (bbl)	
36	W & T Offshore Inc.	891,702	44,985	0	936,687
37	Canadianoxy Offshore Production	755,107	123,629	0	878,736
38	Oryx Energy Company	736,340	89,023	0	825,363
39	Total Minatome Corp.	419,992	277,399	0	697,391
40	Anadarko Petroleum Corp.	602,267	48,559	0	650,826
	<i>Subtotal (1-40)</i>	245,849,427	40,230,883	41,876,824	327,957,134
41	Howell Petroleum Corp.	639,095	698	0	639,793
42	Norcen Explorer Inc.	501,134	131,568	0	632,702
43	Energy Development Corporation	331,319	298,157	0	629,476
44	B T Operating Co.	540,690	68,062	0	608,752
45	Mobil Exploration and Producing	248,225	354,094	0	602,319
46	Energy Development Corporation	331,619	210,000	0	541,619
47	Louis Dreyfus Reserves Corporation	486,992	50,203	0	537,195
48	Taylor Energy Company	284,194	238,251	0	522,445
49	Pacific Offshore Operators	0	0	497,722	497,722
50	Columbia Gas Development Corp.	333,803	159,439	0	493,242
	<i>Subtotal (1-50)</i>	249,546,498	41,741,355	42,374,546	333,662,399
51	Union Pacific Resources Company	620	475,767	0	476,387
52	Union Pacific Resources Co.	620	475,767	0	476,387
53	Mesa Operating Limited Partnership	179,447	273,626	0	453,073
54	Century Offshore Management	369,068	74,101	0	443,169
55	Sandeler Offshore Operating	309,522	101,885	0	411,407
56	Zilkha Energy Company	0	399,131	0	399,131
57	Santa Fe Energy Operation Partnership	361,062	4,188	0	365,250
58	Stone Petroleum Corp.	258,113	73,939	0	332,052
59	Aquila Energy Resources Corp.	131,336	170,066	0	301,402
60	Mobil Oil Corp.	151,836	87,570	0	239,406
	<i>Subtotal (1-60)</i>	251,308,122	43,877,395	42,374,546	337,560,063
61	Louisiana Land and Exploration	94,765	144,511	0	239,276
62	Diamond Shamrock Offshore Partners	48,200	162,690	0	210,890
63	GulfStream Resources, Inc.	80,609	124,005	0	204,614
64	Brooklyn Union Exploration Co.	0	201,283	0	201,283
65	Adobe Resources Corp.	178,328	4,775	0	183,103
66	AEDC USA Inc.	0	181,600	0	181,600
67	Hunt Oil Company	46,794	128,174	0	174,968
68	UMC Petroleum Corporation	173,188	0	0	173,188
69	OXY USA Inc.	0	171,308	0	171,308
70	Gas Transportation Corp.	134,380	34,779	0	169,159
	<i>Subtotal (1-70)</i>	252,064,386	45,030,520	42,374,546	339,469,452

Table 29. Oil Production — Producing OCS Operators in 1992 —continued

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	<u>Gulf of Mexico OCS</u>		<u>Pacific</u>	Field Volume (bbl)
		Crude Oil (bbl)	Condensate (bbl)	Crude Oil & Condensate (bbl)	
71	WHK, Inc.	145,072	20,699	0	165,771
72	Aviva America Inc.	152,270	2,462	0	154,732
73	Sante Fe International Corp.	0	125,927	0	125,927
74	Coastal Oil & Gas Corp.	122,318	0	0	122,318
75	Mesa Petroleum Co.	111,533	590	0	112,123
76	Wacker Oil Inc.	0	107,655	0	107,655
77	Great Western Offshore Inc.	0	99,327	0	99,327
78	Mitchell Energy Corp.	97,541	9	0	97,550
79	PG&E Resources Offshore Co.	0	88,730	0	88,730
80	Koch Exploration Company	0	81,529	0	81,529
	Subtotal (1-80)	252,693,120	45,557,448	42,374,546	340,625,114
81	Transco Expl. & Prod.	0	77,078	0	77,078
82	Aran Energy Corporation	71,723	2,100	0	73,823
83	Enron Oil & Gas Company	0	67,199	0	67,199
84	Sekco Energy Inc.	62,734	0	0	62,734
85	Aquila Energy Corporation	0	61,280	0	61,280
86	American Exploration Company	44,506	14,469	0	58,975
87	Quintana Petroleum Corp.	0	54,295	0	54,295
88	Roberts & Bunch Offshore Inc.	0	52,679	0	52,679
89	Cockrell Oil Corporation.	0	44,644	0	44,644
90	Pan Petroleum Master Limited	0	44,610	0	44,610
	Subtotal (1-90)	252,872,083	45,975,802	42,374,546	341,222,431
91	Wayman W. Buchanan, Inc.	0	43,114	0	43,114
92	Partners Oil Company	0	40,160	0	40,160
93	Corpus Christi Oil and Gas Company	0	39,770	0	39,770
94	Zapata Exploration Company	0	39,180	0	39,180
95	Seagull Energy E&P, Inc.	0	37,178	0	37,178
96	Flash Gas & Oil Southwest	0	37,112	0	37,112
97	Hughes Eastern Petroleum Inc.	0	34,465	0	34,465
98	Global Marine Oil & Gas Company	0	24,298	0	24,298
99	Pogo Producing Company	0	20,051	0	20,051
100	Trade & Development Corporation	0	14,086	0	14,086
	Subtotal (1-100)	252,872,083	46,305,216	42,374,546	341,551,845
101	Hardy Oil & Gas USA, Inc.	0	13,165	0	13,165
102	Four Star Oil & Gas Company	0	12,006	0	12,006
103	Seneca Resources Corp.	0	11,810	0	11,810
104	Houston Oil & Minerals Corp.	0	9,892	0	9,892
105	General Atlantic Resources Inc.	7,465	2,326	0	9,791

Table 29. Oil Production — Producing OCS Operators in 1992 —continued

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	<u>Gulf of Mexico OCS</u>		<u>Pacific</u>	Field Volume (bbl)
		Crude Oil (bbl)	Condensate (bbl)	Crude Oil & Condensate (bbl)	
106	Ashland Exploration Inc.	0	9,576	0	9,576
107	Van Petroleum Inc.	0	9,517	0	9,517
108	Ivory Production Co.	0	5,937	0	5,937
109	BHP Petroleum Americas Inc.	2,409	3,407	0	5,816
110	Pel-Tex Company	0	4,118	0	4,118
	<i>Subtotal (1-110)</i>	252,881,957	46,386,970	42,374,546	341,643,473
111	ANR Production Company	0	3,423	0	3,423
112	Challenger Minerals	0	1,275	0	1,275
113	Offshore Energy Development	0	594	0	594
114	Falcon Offshore Operating Co.	0	565	0	565
115	Levinson Partners Corporation	0	97	0	97
116	Petrobras America Inc.	0	14	0	14
	Field Totals	252,881,957	46,392,938	42,374,546	341,649,441

Table 30. Natural Gas Production — Producing OCS Operators in 1992

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	Gulf of Mexico		Pacific OCS	Field Volume (Mcf)
		Natural Gas (Mcf)	Coalinghead Gas (Mcf)	Natural Gas (Mcf)	
1	Chevron USA Inc.	539,145,448	80,550,984	13,852,457	633,548,889
2	Shell Offshore Inc.	233,814,784	75,075,535	0	308,890,319
3	Texaco E&P	192,579,097	30,855,013	0	223,434,110
4	Exxon Corp.	136,699,971	47,481,154	17,216,149	201,397,274
5	Amoco Production Company	172,062,440	2,562,846	0	174,625,286
6	Atlantic Richfield Company	164,886,523	8,572,979	0	173,459,502
7	Amerada Hess Corp.	169,348,524	3,821,919	0	172,970,443
8	Union Oil Company of California	138,177,835	10,449,110	5,628,918	154,255,863
9	Conoco Inc.	103,770,151	43,113,445	0	146,883,596
10	Pennzoil E & P	124,727,735	9,902,275	0	134,630,010
	<i>Subtotal (1-10)</i>	1,975,212,508	312,185,260	36,697,524	2,324,095,292
11	OXY USA Inc.	107,974,788	0	0	107,974,788
12	Odeco Oil & Gas Company	89,871,497	8,022,131	0	97,893,628
13	Marathon Oil Company	75,728,362	21,638,956	0	97,367,318
14	Nerco Oil & Gas Inc.	89,988,370	884,191	0	90,872,561
15	Mobil Producing Texas & New Mexico Inc.	72,912,849	14,537,812	0	87,450,661
16	Kerr-McGee Corp.	82,516,314	3,893,007	0	86,409,321
17	CNG Producing Company	84,859,574	1,372,059	0	86,231,633
18	Hall-Houston Oil Company	79,410,527	2,793,452	0	82,203,979
19	Unocal Exploration Corp.	72,523,409	5,189,700	0	77,713,109
	<i>Subtotal (1-20)</i>	2,730,998,198	370,516,568	36,697,524	3,138,212,290
20	Phillips Petroleum Company	63,780,969	2,506,878	0	66,287,847
21	Forest Oil Corp.	60,169,729	2,055,019	0	62,224,748
22	Walter Oil & Gas Corp.	57,365,387	155,969	0	57,521,356
23	Oryx Energy Company	54,291,967	1,413,454	0	55,705,421
24	Union Pacific Resources Company	53,317,423	3,337	0	53,320,760
25	Samedan Oil Corp.	50,981,592	1,824,919	0	52,806,511
26	Brooklyn Union Exploration Co.	51,397,854	0	0	51,397,854
27	Torch Operating Company	44,407,433	6,036,535	0	50,443,968
28	Delmar Operating, Inc.	36,335,347	3,868,154	0	40,203,501
29	Energy Development Corporation	37,891,285	912,787	0	38,804,072
30	Newfield Exploration Company	35,836,971	2,262,898	0	38,099,869
	<i>Subtotal (1-30)</i>	3,276,774,155	391,556,518	36,697,524	3,705,028,197
31	Enron Oil & Gas Company	34,372,343	0	0	34,372,343
32	Sonata Exploration Company	32,229,912	1,186,301	0	33,416,213
33	Diamond Shamrock Offshore Partners	32,624,138	129,749	0	32,753,887
34	Sante Fe International Corp.	31,054,167	0	0	31,054,167
35	BP Exploration & Oil, Inc.	22,365,634	7,397,449	0	29,763,083

Table 30. Natural Gas Production — Producing OCS Operators in 1992 — *continued*

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	Gulf of Mexico		Pacific OCS	Field Volume (Mcf)
		Natural Gas (Mcf)	Casinghead Gas (Mcf)	Natural Gas (Mcf)	
36	Mobil Exploration and Producing	24,627,105	479,988	0	25,107,093
37	Wacker Oil Inc.	24,338,821	0	0	24,338,821
38	Anadarko Petroleum Corp.	22,171,026	1,625,871	0	23,796,897
39	Texaco Inc.	5,232,033	28,587	16,359,180	21,619,800
40	PG&E Resources Offshore Co.	21,547,329	0	0	21,547,329
	<i>Subtotal (1-40)</i>	3,527,336,663	402,404,463	53,056,704	3,982,797,830
41	AGIP Petroleum Co. Inc.	13,295,709	7,566,094	0	20,861,803
42	Koch Exploration Company	18,038,300	0	0	18,038,300
43	Mesa Operating Limited Partners	16,765,255	561,635	0	17,326,890
44	Zilkha Energy Company	16,477,450	0	0	16,477,450
45	Century Offshore Management	14,450,048	949,724	0	15,399,772
46	Columbia Gas Development Corp.	14,054,021	666,431	0	14,720,452
47	Total Minatome Corp.	12,705,534	1,835,287	0	14,540,821
48	Elf Exploration Inc.	9,938,999	4,410,216	0	14,349,215
49	Zapata Exploration Company	13,974,745	0	0	13,974,745
50	W & T Offshore Inc.	11,602,373	1,822,392	0	13,424,765
	<i>Subtotal (1-50)</i>	3,668,639,097	420,216,242	53,056,704	4,141,912,043
51	Hunt Oil Company	12,654,643	760,131	0	13,414,774
52	Aquila Energy Resources Corp.	12,691,498	70,146	0	12,761,644
53	Taylor Energy Company	11,862,404	705,503	0	12,567,907
54	AEDC USA Inc.	12,193,192	0	0	12,193,192
55	Sante Fe Energy Operating Ptr	10,879,785	212,930	0	11,092,715
56	Great Western Offshore Inc.	10,819,602	0	0	10,819,602
57	Louisiana Land and Exploration	10,154,080	479,012	0	10,633,092
58	Sandefor Offshore Operating	9,125,431	454,236	0	9,579,667
59	Transco E & P	9,312,902	0	0	9,312,902
60	Mobil Oil Corp.	8,212,434	193,554	0	8,405,988
	<i>Subtotal (1-60)</i>	3,776,545,068	423,091,754	53,056,704	4,252,693,526
61	Corpus Christi Oil and Gas Company	8,396,960	0	0	8,396,960
62	BP Exploration, Inc.	5,257,911	2,366,876	0	7,624,787
63	Shell Frontier Oil and Gas, Inc.	5,584,533	1,704,939	0	7,289,472
64	Apache Corp.	6,272,983	247,474	0	6,520,457
65	Scana Petroleum Resource	5,903,349	0	0	5,903,349
66	Norcen Explorer Inc.	4,089,309	1,617,912	0	5,707,221
67	Canadianoxy Offshore Production	4,586,769	1,027,586	0	5,614,355
68	Adobe Resources Corp.	5,258,097	111,936	0	5,370,033
69	Wayman W. Buchanan Inc.	4,994,489	0	0	4,994,489
70	B T Operating Co.	3,802,198	1,182,697	0	4,984,895
	<i>Subtotal (1-70)</i>	3,830,691,666	431,351,174	53,056,704	4,315,099,544

Table 30. Natural Gas Production — Producing OCS Operators in 1992 — *continued*

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	Gulf of Mexico		Pacific OCS	Field Volume (Mcf)
		Natural Gas (Mcf)	Casinghead Gas (Mcf)	Natural Gas (Mcf)	
71	Aquila Energy Corporation	4,961,368	0	0	4,961,368
72	Cockrell Oil Corp.	4,938,891	0	0	4,938,891
73	Partners Oil Company	4,404,576	0	0	4,404,576
74	BHP Petroleum Americas Inc.	2,792,932	817,188	0	3,610,120
75	Houston Oil & Minerals Corp.	3,240,836	0	0	3,240,836
76	Aviva America Inc.	2,330,927	797,371	0	3,128,298
77	Ashland Exploration Inc.	3,036,385	0	0	3,036,385
78	ANR Production Company	2,905,008	0	0	2,905,008
79	Matrix Oil & Gas, Inc.	2,840,361	0	0	2,840,361
80	Roberts & Bunch Offshore Inc.	2,680,529	0	0	2,680,529
	<i>Subtotal (1-80)</i>	3,864,823,479	432,965,733	53,056,704	4,350,845,916
81	Hughes Eastern Petroleum Inc.	2,603,504	0	0	2,603,504
82	WHK, Inc.	1,971,697	399,208	0	2,370,905
83	Gas Transportation Corp.	2,091,205	225,838	0	2,317,043
84	Hardy Oil & Gas USA, Inc.	2,107,960	0	0	2,107,960
85	Louis Dreyfus Reserves Corp.	1,022,989	1,059,353	0	2,082,342
86	Gulfstream Resources, Inc.	1,941,101	141,025	0	2,082,126
87	POGO Producing Company	2,078,705	0	0	2,078,705
88	Stone Petroleum Corp.	1,906,857	133,473	0	2,040,330
89	Howell Petroleum Corp.	220,462	1,605,172	0	1,825,634
90	Seneca Resources Corp.	1,670,019	0	0	1,670,019
	<i>Subtotal (1-90)</i>	3,882,437,978	436,529,802	53,056,704	4,372,024,484
91	Flash Gas & Oil Southwest	1,491,102	0	0	1,491,102
92	Aran Energy Corporation	1,174,570	190,197	0	1,364,767
93	Mesa Petroleum, Inc.	605,675	676,051	0	1,281,726
94	Van Petroleum Inc.	1,222,179	0	0	1,222,179
95	Trade & Development Corporation	1,211,037	0	0	1,211,037
96	Shell Western E&P Inc.	0	0	980,103	980,103
97	Offshore Energy Development	859,205	0	0	859,205
98	Pacific Offshore Operators	0	0	822,836	822,836
99	General Atlantic Resources Inc.	733,512	18,586	0	752,098
100	Ivory Production Co.	711,287	22,544	0	733,831
	<i>Subtotal (1-100)</i>	3,890,446,545	437,437,180	54,859,643	4,382,743,368
101	Petrobras America Inc.	666,133	0	0	666,133
102	Four Star Oil & Gas Company	591,008	0	0	591,008
103	Pan Petroleum Master Limited	520,598	0	0	520,598
104	Chandeleur Ltd.	505,888	0	0	505,888
105	Coastal Oil & Gas Corp.	0	501,437	0	501,437

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

2 of 2

Table 30. Natural Gas Production — Producing OCS Operators In 1992 — *continued*

[The volumes here are those metered in the field at the wellhead not the adjusted final production figures that the operators report and on which lessees pay royalties to the Federal Government.]

Rank	OCS Operators	Gulf of Mexico		Pacific OCS	Field Volume (Mcf)
		Natural Gas (Mcf)	Casinghead Gas (Mcf)	Natural Gas (Mcf)	
106	UMC Petroleum Corporation	283,932	200,277	0	484,209
107	Tatham Offshore Inc.	402,123	0	0	402,123
108	American Exploration Company	292,956	54,014	0	346,970
109	Pel-Tex Company	346,311	0	0	346,311
110	Falcon Offshore Operating Co.	328,525	0	0	328,525
	Subtotal (1-110)	3,894,384,019	438,192,908	54,859,643	4,387,436,570
111	Mitchell Energy Corp.	10,007	316,241	0	326,248
112	Challenger Minerals, Inc.	303,745	0	0	303,745
113	Conn Energy Inc.	303,745	0	0	303,745
114	Global Marine Oil & Gas Company	214,043	0	0	214,043
115	Southland Royalty Company	187,495	0	0	187,495
116	Quintana Petroleum Corp.	185,755	0	0	185,755
117	Sekco Energy Inc.	140,592	29,625	0	170,217
118	Levinson Partners Corporation	158,600	0	0	158,600
	Field Totals	3,895,888,001	438,538,774	54,859,643	4,389,286,418

V. Federal Offshore Oil and Natural Gas Sales Volume and Royalties

Annual crude oil and condensate sales volume is shown in tables 31 and 32. These two tables also give data on the sales value and royalties received from the sale of these commodities. Table 33 gives totals for crude oil and condensate. Natural gas sales volume is shown in table 34 with sales value and royalties received.

Crude oil and condensate sales peaked in 1971 at 418 million barrels (MMbbl) and steadily decreased to 277 MMbbl in 1980. In 1981, sales began rising again and reached a 2-year peak of 389 MMbbl in 1985 and 1986. Sales decreased through the latter half of the 1980s, before rebounding slightly in 1992, reaching 353 MMbbl. Natural gas sales on the OCS hit an all-time high in 1990 of 5.1 Tcf. In 1992, OCS natural gas sales decreased to 4.7 Tcf.

The amount of royalty collected is a function of both sales volume and current crude oil and natural gas prices. Therefore, the peak years for sales volume and royalty collections do not coincide. Royalties from the sale of crude oil peaked in 1984 at \$1.8 billion this was 86 percent more revenue than in 1971 the peak year of production. Additionally, natural gas royalties hit a high in 1984 of \$2.1 billion, this was 26 percent more revenue than in the peak production year of 1990.

Tables 35 through 52 show offshore oil and natural gas sales volume and royalty statistics for Federal leases adjacent to Alabama, California, Louisiana, and Texas. Submerged lands offshore Louisiana produce the most oil and natural gas of any Federal OCS area (see fig. 7). Therefore, production highs and lows for offshore Louisiana closely follow total Federal OCS production. In 1992, Louisiana and Alabama were the only OCS producers of salt and sulphur. California produced small quantities of sulphur in 1988 and 1989, but none since 1990.

Royalty rates for OCS resources generally range between 12.5 and 16.7 percent of sales value, with the majority of leases employing a 16.7 percent royalty rate. One exception involves net profit share leases (NPSL) introduced in the early 1980's. Under NPSL lease terms, payors must report the sales volume and sales value from a lease but do not owe a profit share payment until aggregate lease revenues exceed costs.

In 1992, payors reported approximately 1.8 percent of oil and 1.3 percent of natural gas sales volume from NPSL's on which profit share payments were not due. Payors must submit a percentage share once a profit is realized. Although the percentage share ranges up to 50 percent for existing leases, no NPSL's reached a profitable status until 1988, and only a few profitable leases existed in 1992. Therefore, most OCS resources remain subject to customary royalty rates.

Table 31. Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre-1954-92

Year	Sales Volume (bbl)	Sales Value (\$)	Royalties Received (\$)
pre-1954	940,634	2,770,866	584,088
1954	2,723,173	8,028,326	1,681,702
1955	5,871,853	17,318,314	3,539,946
1956	10,136,355	29,764,624	6,019,747
1957	15,373,071	51,166,849	9,793,597
1958	23,709,108	77,266,710	14,482,598
1959	34,177,529	108,197,518	20,331,723
1960	47,359,144	139,113,972	27,843,125
1961	61,265,770	192,144,960	35,462,210
1962	84,931,909	264,052,899	48,707,457
1963	98,331,298	313,797,445	55,618,246
1964	114,977,253	352,677,995	64,360,892
1965	136,236,062	417,141,510	75,419,562
1966	175,187,390	537,917,792	96,028,102
1967	205,860,535	633,989,826	112,770,550
1968	252,016,345	780,113,838	138,248,305
1969	295,429,477	958,388,119	167,701,123
1970	337,122,885	1,112,183,855	193,102,272
1971	390,180,091	1,378,656,056	235,780,785
1972	378,497,189	1,331,063,800	227,096,426
1973	360,888,784	1,480,012,269	248,255,928
1974	332,354,155	2,196,822,331	361,566,306
1975	303,159,121	2,207,663,216	363,462,463
1976	294,483,025	2,335,775,088	380,224,980
1977	276,983,936	2,434,108,445	400,363,388
1978	270,421,174	2,627,929,612	429,615,710
1979	262,275,483	2,873,567,427	468,727,986
1980	258,809,111	4,783,536,710	778,757,011
1981	263,117,614	8,844,132,476	1,440,447,962
1982	283,845,607	8,928,559,167	1,536,145,116
1983	311,897,837	9,161,386,009	1,468,642,532
1984	330,081,395	9,623,439,863	1,630,494,906
1985	351,291,399	9,585,170,180	1,541,512,557
1986	350,611,608	5,765,016,676	910,801,628
1987	325,323,990	5,629,094,453	888,099,155
1988	279,168,943	4,162,079,652	648,388,269
1989	260,180,825	4,448,633,477	693,991,544
1990	273,744,957	5,850,392,530	909,534,651
1991	263,272,578	5,225,977,492	822,585,098
1992	<u>301,811,829</u>	<u>5,328,198,399</u>	<u>810,471,642</u>
Total	8,624,050,442	112,197,250,746	18,266,661,288

NOTE: See tables 39, 43, and 49 for comparable statistics for California, Louisiana, and Texas, respectively.

Table 32. Condensate Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre- 1954-92

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1954	210,063	719,664	135,453
1954	619,057	1,947,804	361,496
1955	833,631	2,624,334	483,418
1956	878,177	2,738,187	505,938
1957	697,116	2,397,306	432,270
1958	1,059,929	3,470,484	627,780
1959	1,519,992	4,871,845	889,736
1960	2,306,845	7,320,399	1,328,526
1961	3,064,308	9,527,903	1,788,043
1962	4,804,673	14,874,907	2,799,353
1963	6,247,942	19,168,310	3,618,838
1964	7,522,873	22,941,499	4,286,902
1965	8,732,553	26,664,321	4,988,612
1966	13,526,680	41,750,232	7,679,495
1967	16,001,079	48,190,009	8,627,708
1968	16,979,545	55,166,230	9,789,356
1969	17,430,510	60,742,729	10,590,402
1970	23,523,283	81,407,670	13,974,190
1971	28,368,855	103,024,860	17,448,239
1972	33,388,704	122,901,971	20,593,075
1973	33,841,215	140,719,956	23,234,913
1974	28,239,910	201,954,417	32,798,697
1975	27,078,331	221,185,285	36,064,743
1976	22,437,084	197,634,617	32,077,708
1977	26,964,304	249,472,545	40,783,625
1978	21,843,868	226,416,780	37,012,093
1979	23,290,055	254,025,614	40,592,290
1980	18,579,864	359,575,076	58,480,375
1981	26,647,791	843,634,441	134,868,547
1982	37,365,850	1,224,612,621	204,142,922
1983	36,433,406	1,106,012,804	170,878,978
1984	40,157,619	1,205,552,892	192,952,938
1985	38,032,886	1,036,510,708	165,672,342
1986	38,604,396	664,049,929	104,236,075
1987	40,817,719	715,958,985	111,174,336
1988	41,498,481	652,825,286	99,066,090
1989	44,986,830	806,924,323	124,599,951
1990	50,678,224	1,130,145,158	181,418,661
1991	52,420,673	1,092,395,207	173,980,987
1992	<u>51,914,551</u>	<u>991,468,676</u>	<u>157,531,060</u>
Total	889,548,872	13,953,525,994	2,232,516,161

NOTE: See tables 35, 40, 44, and 50 for comparable statistics for Alabama, California, Louisiana, and Texas, respectively.

Table 33. Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre- 1954-92

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1954	1,150,697	3,490,530	719,541
1954	3,342,230	9,976,130	2,043,198
1955	6,705,484	19,942,648	4,023,364
1956	11,014,532	32,502,811	6,525,685
1957	16,070,187	53,564,155	10,225,867
1958	24,769,037	80,737,194	15,110,378
1959	35,697,521	113,069,363	21,221,459
1960	49,665,989	146,434,371	29,171,651
1961	64,330,078	201,672,863	37,250,253
1962	89,736,582	278,927,806	51,506,810
1963	104,579,240	332,965,755	59,237,084
1964	122,500,126	375,619,494	68,647,794
1965	144,968,615	443,805,831	80,408,174
1966	188,714,070	579,668,024	103,707,597
1967	221,861,614	682,179,835	121,398,258
1968	268,995,890	835,280,068	148,037,661
1969	312,859,987	1,019,130,848	178,291,525
1970	360,646,168	1,193,591,525	207,076,462
1971	418,548,946	1,481,680,916	253,229,024
1972	411,885,893	1,453,965,771	247,689,501
1973	394,729,999	1,620,732,225	271,490,841
1974	360,594,065	2,398,776,748	394,365,003
1975	330,237,452	2,428,848,501	399,527,206
1976	316,920,109	2,533,409,705	412,302,688
1977	303,948,240	2,683,580,990	441,147,013
1978	292,265,042	2,854,346,392	466,627,803
1979	285,565,538	3,127,593,041	509,320,276
1980	277,388,975	5,143,111,786	837,237,386
1981	289,765,405	9,687,766,917	1,575,316,509
1982	321,211,457	10,153,171,788	1,740,288,038
1983	348,331,243	10,267,398,813	1,639,521,510
1984	370,239,014	10,828,992,755	1,823,447,844
1985	389,324,285	10,621,680,888	1,707,184,899
1986	389,216,004	6,429,066,605	1,015,037,703
1987	366,141,709	6,345,053,438	999,273,491
1988	320,667,424	4,814,904,938	747,454,359
1989	305,167,655	5,255,557,800	818,591,495
1990	324,423,181	6,980,537,688	1,090,953,312
1991	315,693,251	6,318,372,699	996,566,085
1992	<u>353,726,380</u>	<u>6,319,667,078</u>	<u>968,052,702</u>
Total	9,514,051,825	126,148,436,900	20,499,227,449

NOTE: See tables 36, 41, 45, and 51 for comparable statistics for Alabama, California, Louisiana, and Texas, respectively.

Table 34. Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Offshore Leases, pre- 1954-92

<i>Year</i>	<i>Sales Volume (Mcf)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1954	19,881,055	1,546,331	248,361
1954	56,325,083	4,393,968	705,779
1955	81,279,042	7,118,031	1,116,642
1956	82,892,538	6,995,060	1,103,698
1957	82,573,604	7,508,433	1,165,378
1958	127,692,848	15,733,942	2,313,500
1959	207,156,296	37,403,164	5,318,518
1960	273,034,451	52,761,614	7,636,074
1961	318,280,095	64,615,520	9,483,489
1962	451,952,659	92,209,196	13,748,400
1963	564,352,606	106,783,758	16,136,781
1964	621,731,438	118,377,080	17,887,512
1965	645,589,469	126,917,562	19,248,110
1966	1,007,447,235	189,381,492	29,142,325
1967	1,187,215,750	227,694,353	32,034,125
1968	1,524,178,078	291,257,157	48,453,724
1969	1,954,486,975	365,770,489	57,390,300
1970	2,418,676,591	438,136,408	69,445,227
1971	2,777,043,418	549,648,012	87,405,869
1972	3,038,554,773	663,647,779	105,892,430
1973	3,211,588,422	736,877,724	118,244,998
1974	3,514,723,907	877,700,506	141,653,952
1975	3,458,693,454	1,205,677,587	195,198,256
1976	3,595,923,526	1,652,842,563	268,090,028
1977	3,737,746,922	2,766,397,049	449,322,812
1978	4,385,060,878	4,135,198,537	672,570,441
1979	4,672,979,139	6,125,502,323	1,002,697,388
1980	4,641,456,983	7,885,212,996	1,295,291,353
1981	4,849,536,728	10,502,988,536	1,711,962,893
1982	4,679,511,272	12,419,927,350	2,074,583,597
1983	4,040,733,857	11,273,488,686	1,814,796,569
1984	4,537,841,051	12,839,297,031	2,091,276,753
1985	4,000,975,226	11,369,247,971	1,905,597,880
1986	3,948,891,837	9,117,507,291	1,518,338,984
1987	4,425,581,690	8,134,688,593	1,337,761,434
1988	4,309,874,827	7,946,040,609	1,310,301,872
1989	4,200,263,926	7,838,429,288	1,300,193,995
1990	5,092,931,169	9,458,313,225	1,539,364,756
1991	4,515,531,673	7,890,057,471	1,286,891,566
1992	<u>4,685,644,725</u>	<u>8,164,857,461</u>	<u>1,333,786,723</u>
Total	101,945,835,216	145,708,212,146	23,893,802,492

NOTE: See tables 37, 42, 46, and 52 for comparable statistics for Alabama, California, Louisiana, and Texas respectively.

Table 35. Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Alabama, 1992

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1992	0	0	0
1992	<u>3,209</u>	<u>58,687</u>	<u>9,742</u>
Total	3,209	58,687	9,742

Table 36. Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Alabama, 1992

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1992	0	0	0
1992	<u>3,209</u>	<u>58,687</u>	<u>9,742</u>
Total	3,209	58,687	9,742

Table 37. Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Alabama, 1992

<i>Year</i>	<i>Sale Volume (Mcf)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1992	0	0	0
1992	<u>67,280,071</u>	<u>121,995,233</u>	<u>18,743,011</u>
Total	67,280,071	121,995,233	18,743,011

**Table 38. Sulphur Sales Volume, Sales Value, and Royalties Received from Federal Leases
Offshore Alabama, 1992**

<i>Year</i>	<i>Sales Volume (Short tons)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1992	0	0	0
1992	<u>218</u>	<u>9,464</u>	<u>1,116</u>
Total	218	9,464	1,116

**Table 39. Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Leases
Offshore California, 1968-92**

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
1968	2,059,889	5,222,660	870,444
1969	9,940,844	28,042,929	4,673,822
1970	24,987,628	72,294,311	12,049,052
1971	31,103,548	98,407,829	16,401,306
1972	22,562,213	70,131,629	11,688,605
1973	18,915,314	63,475,178	10,579,199
1974	16,776,744	78,014,292	13,002,385
1975	15,304,757	63,789,230	10,631,541
1976	13,978,553	65,245,691	10,874,283
1977	12,267,598	58,205,617	9,707,115
1978	12,085,908	69,709,403	11,704,453
1979	10,961,076	78,086,108	13,014,352
1980	10,198,886	111,407,469	18,567,912
1981	19,605,027	477,803,916	86,004,705
1982	28,434,202	679,293,086	160,992,461
1983	30,527,487	717,395,945	165,001,067
1984	30,254,306	645,004,111	122,270,587
1985	29,781,465	628,442,977	123,056,974
1986	29,227,846	358,544,517	63,973,110
1987	33,556,686	423,213,631	75,690,692
1988	32,615,118	322,221,171	53,723,584
1989	33,072,161	401,679,836	69,618,869
1990	33,312,719	540,919,648	94,552,896
1991	29,142,348	359,875,572	64,130,301
1992	<u>41,220,209</u>	<u>474,967,802</u>	<u>71,946,494</u>
Total	571,892,532	6,891,394,558	1,294,726,209

Table 40. Condensate Sales Volume, Sales Value, and Royalties Recieved from Federal Leases Offshore California, 1968-92

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
1968-89	0	0	0
1990	3,742	66,651	11,488
1991	3,125	55,684	9,281
19m92	<u>2,592</u>	<u>36,958</u>	<u>6,095</u>
Total	9,459	159,293	26,864

Table 41. Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore California, 1968-92

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
1968	2,059,889	5,222,660	870,444
1969	9,940,844	28,042,929	4,673,822
1970	24,987,628	72,294,311	12,049,052
1971	31,103,548	98,407,829	16,401,306
1972	22,562,213	70,131,629	11,688,605
1973	18,915,314	63,475,178	10,579,199
1974	16,776,744	78,014,292	13,002,385
1975	15,304,757	63,789,230	10,631,541
1976	13,978,553	65,245,691	10,874,283
1977	12,267,598	58,205,617	9,707,115
1978	12,085,908	69,709,403	11,704,453
1979	10,961,076	78,086,108	13,014,352
1980	10,198,886	111,407,469	18,567,912
1981	19,605,027	477,803,916	86,004,705
1982	28,434,202	679,293,086	160,992,461
1983	30,527,487	717,395,945	165,001,067
1984	30,254,306	645,004,111	122,270,587
1985	29,781,465	628,442,977	123,056,974
1986	29,227,846	358,544,517	63,973,110
1987	33,556,686	423,213,631	75,690,692
1988	32,615,118	322,221,171	53,723,584
1989	33,072,161	401,679,836	69,618,869
1990	33,316,461	540,986,299	94,564,384
1991	29,145,473	359,931,256	64,139,582
1992	<u>41,222,801</u>	<u>475,004,760</u>	<u>71,952,589</u>
Total	571,901,991	6,891,553,851	1,294,753,073

Table 42. Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore California, 1968-92

<i>Year</i>	<i>Sales Volume (Mcf)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
1968	799,685	215,915	35,986
1969	4,845,851	1,308,380	218,063
1970	12,229,147	3,301,870	550,312
1971	15,671,479	4,231,299	705,217
1972	10,033,581	2,709,067	451,511
1973	7,286,549	1,968,775	328,129
1974	5,573,642	1,485,338	247,556
1975	3,951,633	1,083,486	180,581
1976	3,475,201	1,013,835	168,973
1977	3,289,963	1,699,845	283,381
1978	3,472,292	1,934,826	314,421
1979	2,866,822	1,878,349	313,058
1980	3,107,023	2,435,833	405,972
1981	12,766,307	13,919,105	2,158,289
1982	17,750,924	40,521,810	10,936,614
1983	16,024,292	45,508,989	11,832,337
1984	27,806,899	99,218,401	16,932,454
1985	49,164,213	151,241,817	25,676,251
1986	42,689,021	129,220,799	21,888,369
1987	40,986,158	111,589,318	18,085,583
1988	34,570,638	92,648,015	15,086,166
1989	28,574,912	77,322,251	12,920,381
1990	38,531,764	107,345,547	17,822,908
1991	40,626,577	116,722,285	19,536,916
1992	<u>40,873,660</u>	<u>111,075,007</u>	<u>18,325,587</u>
Total	466,968,233	1,121,600,242	195,405,015

**Table 43. Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Leases
Offshore Louisiana, pre- 1954-92**

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1954	940,634	2,770,866	584,088
1954	2,723,173	8,028,326	1,681,702
1955	5,869,897	17,312,409	3,538,967
1956	10,123,071	29,724,365	6,013,072
1957	15,367,279	51,146,960	9,790,301
1958	23,709,108	77,266,710	14,482,598
1959	34,177,272	108,196,671	20,331,582
1960	47,359,046	139,113,688	27,843,078
1961	61,265,770	192,144,960	35,462,210
1962	84,928,426	264,041,875	48,705,620
1963	98,278,494	313,637,681	55,591,619
1964	114,972,300	352,663,296	64,358,443
1965	136,232,315	417,131,468	75,417,896
1966	174,304,792	535,253,645	95,584,085
1967	204,698,134	630,364,403	112,166,314
1968	248,223,799	769,355,722	136,455,284
1969	283,974,318	925,153,657	162,162,256
1970	311,035,150	1,036,032,944	180,410,505
1971	358,366,080	1,277,637,359	218,947,766
1972	355,029,953	1,257,524,468	214,844,499
1973	341,277,611	1,413,819,684	237,227,064
1974	315,124,798	2,116,320,829	348,152,189
1975	287,515,795	2,142,058,833	352,531,404
1976	279,738,781	2,263,338,628	368,173,908
1977	264,522,771	2,374,005,873	390,343,437
1978	257,395,201	2,548,509,418	416,325,361
1979	249,183,243	2,768,895,263	451,278,478
1980	239,908,850	4,506,131,180	732,523,049
1981	234,774,684	8,038,329,770	1,299,779,462
1982	244,965,408	7,912,382,678	1,318,994,192
1983	270,291,238	8,113,911,006	1,252,703,480
1984	286,179,678	8,585,390,310	1,444,944,002
1985	308,963,685	8,610,369,286	1,363,608,919
1986	310,229,856	5,222,317,657	819,079,411
1987	278,095,030	4,963,852,356	774,729,750
1988	233,931,885	3,642,541,107	565,189,667
1989	213,826,751	3,808,158,426	587,668,216
1990	227,122,655	5,013,258,505	769,435,910
1991	224,442,426	4,656,857,085	726,484,625
1992	<u>248,857,594</u>	<u>4,631,840,641</u>	<u>703,313,779</u>
Total	7,887,926,951	101,736,790,008	16,406,858,188

Table 44. Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, pre- 1954-92

Year	Sales Volume (bbl)	Sales Value (\$)	Royalties Received (\$)
pre-1954	210,063	719,664	135,453
1954	619,057	1,947,804	361,496
1955	833,631	2,624,334	483,418
1956	878,177	2,738,187	505,938
1957	697,116	2,397,306	432,270
1958	1,059,929	3,470,484	627,780
1959	1,519,992	4,871,845	889,736
1960	2,306,845	7,320,399	1,328,526
1961	3,064,308	9,527,903	1,788,043
1962	4,804,673	14,874,907	2,799,353
1963	6,247,942	19,168,310	3,618,838
1964	7,522,873	22,941,499	4,286,902
1965	8,732,553	26,664,321	4,988,612
1966	13,526,680	41,750,232	7,679,495
1967	14,297,694	42,884,947	7,743,531
1968	15,601,560	50,711,986	9,046,984
1969	16,184,974	56,381,108	9,863,476
1970	22,376,342	77,309,209	13,291,113
1971	27,394,271	99,350,253	16,835,804
1972	32,560,709	119,704,749	20,060,994
1973	32,919,245	136,308,235	22,505,037
1974	27,310,698	194,647,283	31,596,951
1975	26,076,764	213,350,928	34,774,428
1976	22,148,221	194,022,687	31,475,662
1977	26,248,834	242,253,426	39,581,711
1978	20,676,334	212,781,919	34,739,603
1979	21,825,673	237,417,026	37,824,355
1980	16,779,232	326,710,741	53,003,093
1981	21,101,033	733,062,032	116,447,980
1982	30,548,081	1,001,671,575	166,978,650
1983	27,802,321	843,800,442	130,367,168
1984	31,844,944	954,011,338	152,454,740
1985	29,938,178	813,081,497	130,292,473
1986	29,922,420	517,989,208	80,809,948
1987	29,855,851	525,364,523	80,463,024
1988	28,004,645	444,135,383	67,498,626
1989	32,380,902	581,792,391	90,138,817
1990	37,547,880	840,299,780	135,992,050
1991	38,205,307	801,165,282	127,385,280
1992	<u>40,060,614</u>	<u>773,524,961</u>	<u>122,331,496</u>
Total	751,636,566	11,194,750,104	1,793,428,854

Table 45. Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, pre- 1954-92

Year	Sales Volume (bbl)	Sales Value (\$)	Royalties Received (\$)
pre-1954	1,150,697	3,490,530	719,541
1954	3,342,230	9,976,130	2,043,198
1955	6,703,528	19,936,743	4,022,385
1956	11,001,248	32,462,552	6,519,010
1957	16,064,395	53,544,266	10,222,571
1958	24,769,037	80,737,194	15,110,378
1959	35,697,264	113,068,516	21,221,318
1960	49,665,891	146,434,087	29,171,604
1961	64,330,078	201,672,863	37,250,253
1962	89,733,099	278,916,782	51,504,973
1963	104,526,436	332,805,991	59,210,457
1964	122,495,173	375,604,795	68,645,345
1965	144,964,868	443,795,789	80,406,508
1966	187,831,472	577,003,877	103,263,580
1967	218,995,828	673,249,350	119,309,845
1968	263,825,359	820,067,708	145,502,268
1969	300,159,292	981,534,765	172,025,732
1970	333,411,492	1,113,342,153	193,701,618
1971	385,760,351	1,376,987,612	235,783,570
1972	387,590,662	1,377,229,217	234,905,493
1973	374,196,856	1,550,127,919	259,732,101
1974	342,435,496	2,310,968,112	379,749,140
1975	313,592,559	2,355,409,761	387,305,832
1976	301,887,002	2,457,361,315	399,649,570
1977	290,771,605	2,616,259,299	429,925,148
1978	278,071,535	2,761,291,337	451,064,964
1979	271,008,916	3,006,312,289	489,102,833
1980	256,688,082	4,832,841,921	785,526,142
1981	255,875,717	8,771,391,802	1,416,227,442
1982	275,513,489	8,914,054,253	1,485,972,842
1983	298,093,559	8,957,711,448	1,383,070,648
1984	318,024,622	9,539,401,648	1,597,398,742
1985	338,901,863	9,423,450,783	1,493,901,392
1986	340,152,276	5,740,306,865	899,889,359
1987	307,950,881	5,489,216,879	855,192,774
1988	261,936,530	4,086,676,490	632,688,293
1989	246,207,653	4,389,950,817	677,807,033
1990	264,670,535	5,853,558,285	905,427,960
1991	262,647,733	5,458,022,367	853,869,905
1992	<u>288,918,208</u>	<u>5,405,365,602</u>	<u>825,715,273</u>
Total	8,639,563,517	112,931,540,112	18,200,357,040

Table 46. Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, pre- 1954-92

<i>Year</i>	<i>Sales Volume (Mcf)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
pre-1954	19,881,055	1,546,331	248,351
1954	56,325,083	4,393,968	705,779
1955	81,279,042	7,118,031	1,116,642
1956	82,892,538	6,995,060	1,103,698
1957	82,568,807	7,507,953	1,165,294
1958	127,692,848	15,733,942	2,313,500
1959	207,156,296	37,403,164	5,318,518
1960	273,034,451	52,761,614	7,636,074
1961	318,280,095	64,615,520	9,483,489
1962	451,952,659	92,209,196	13,748,400
1963	564,352,606	106,783,758	16,136,781
1964	621,731,438	118,377,080	17,887,512
1965	645,589,469	126,977,562	19,248,110
1966	965,387,849	182,465,908	27,989,727
1967	1,087,262,804	210,606,727	29,186,187
1968	1,413,467,606	272,969,079	45,405,714
1969	1,822,544,142	344,015,027	53,764,395
1970	2,273,147,040	414,018,458	65,425,568
1971	2,634,014,031	525,451,277	83,373,079
1972	2,881,364,733	636,164,978	101,311,962
1973	3,055,628,236	707,142,624	113,289,175
1974	3,349,170,864	844,519,248	136,123,741
1975	3,332,169,057	1,169,897,666	189,234,935
1976	3,499,865,900	1,622,680,649	263,063,050
1977	3,647,513,674	2,712,635,503	440,362,490
1978	4,149,731,136	3,847,319,737	624,603,700
1979	4,158,521,710	5,225,483,453	852,694,229
1980	4,013,707,434	6,578,100,474	1,077,439,212
1981	4,106,494,590	8,677,535,461	1,407,880,914
1982	3,803,740,050	10,079,911,140	1,680,321,200
1983	3,173,892,354	8,632,987,203	1,381,277,952
1984	3,578,740,570	9,656,366,956	1,551,459,784
1985	3,116,884,490	8,468,902,650	1,420,442,835
1986	2,927,832,264	6,605,111,673	1,081,739,674
1987	3,180,107,195	5,775,180,843	935,053,158
1988	3,096,881,628	5,705,494,358	919,994,644
1989	3,006,576,061	5,590,014,727	912,525,885
1990	3,706,324,044	6,914,198,999	1,116,561,923
1991	3,289,968,602	5,811,082,617	938,334,655
1992	<u>3,338,101,447</u>	<u>5,903,755,520</u>	<u>952,478,988</u>
Total	86,141,755,898	113,756,436,134	18,497,450,924

Table 47. Salt Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Louisiana, 1960–92

Year	Sales Volume (Short Tons)	Sales Value (\$)	Royalties Received (\$)
1960	59,794	10,764	1,792
1961	528,581	95,142	15,857
1962	176,924	31,848	5,308
1963	262,951	47,334	7,889
1964	212,978	38,334	6,389
1965	290,804	52,334	8,724
1966	297,475	53,544	8,924
1967	274,422	49,396	7,422
1968	540,651	97,317	17,030
1969	343,060	61,751	10,292
1970	269,691	48,544	8,091
1971	370,406	66,673	11,112
1972	358,782	64,581	10,764
1973	381,247	68,624	11,437
1974	346,411	62,354	10,392
1975	151,032	(54,212)	(8,469)
1976	(113,590)	(20,446)	(3,408)
1977–87	0	0	0
1988	44	2,619	437
1989	1,059	63,556	10,614
1990	302,246	54,404	9,086
1991	197,543	35,701	5,926
1992	<u>265,528</u>	<u>140,730</u>	<u>7,966</u>
Total	5,252,511	930,162	155,609

**Table 48. Sulphur Sales Volume, Sales Value, and Royalties Received from Federal Leases
Offshore Louisiana, 1960-92**

<i>Year</i>	<i>Sales Volume (Short Tons)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
1960	98,025	1,762,866	285,784
1961	401,521	7,252,931	1,170,733
1962	285,975	5,507,050	835,816
1963	552,573	11,069,637	1,617,471
1964	634,875	12,748,602	1,858,535
1965	1,090,950	23,387,005	3,197,532
1966	1,400,848	32,621,551	4,128,691
1967	1,409,276	37,291,107	4,167,804
1968	1,553,621	53,277,667	4,628,512
1969	1,232,939	49,129,573	3,684,432
1970	1,099,584	24,636,736	3,235,874
1971	1,178,400	23,718,311	3,452,117
1972	1,176,833	22,286,906	3,438,515
1973	1,235,358	23,748,632	3,610,757
1974	1,303,750	34,820,443	3,852,700
1975	1,248,134	69,737,571	3,737,784
1976	1,073,187,553	1,036,964,673	1,072,090,030
1977	0	0	0
1978	(5,090)	(27,891)	(4,648)
1979-87	0	0	0
1988	887	104,753	17,494
1989	162,012	17,497,256	2,922,042
1990	734,449	91,967,724	4,598,386
1991	854,126	95,704,777	4,785,239
1992	<u>1,046,948</u>	<u>67,503,963</u>	<u>3,818,434</u>
Total	18,141,723	668,970,019	61,388,210

**Table 49. Crude Oil Sales Volume, Sales Value, and Royalties Received from Federal Leases
Offshore Texas, 1955-92**

Year	Sales Volume (bb)	Sales Value (\$)	Royalties Received (\$)
1955	1,956	5,905	979
1956	13,284	40,259	6,675
1957	5,792	19,889	3,296
1958	0	0	0
1959	257	847	141
1960	98	284	47
1961	0	0	0
1962	3,483	11,024	1,837
1963	52,804	159,764	26,627
1964	4,953	14,699	2,449
1965	3,747	10,042	1,666
1966	882,598	2,664,147	444,017
1967	1,162,401	3,625,423	604,236
1968	1,732,657	5,535,456	922,577
1969	1,514,315	5,191,533	865,045
1970	1,100,107	3,856,600	642,715
1971	710,463	2,610,868	431,713
1972	905,023	3,407,703	563,322
1973	695,859	2,717,407	449,665
1974	452,613	2,487,210	411,732
1975	338,569	1,815,153	299,518
1976	765,691	7,190,769	1,176,789
1977	193,567	1,896,955	312,836
1978	940,065	9,710,791	1,585,896
1979	2,131,164	26,586,056	4,435,156
1980	8,701,375	165,998,061	27,666,050
1981	8,737,903	327,998,790	54,663,795
1982	10,445,997	336,883,403	56,158,463
1983	11,079,112	330,079,058	50,937,985
1984	13,647,411	393,045,442	63,280,317
1985	12,546,249	346,357,917	54,846,664
1986	11,153,906	184,154,502	27,749,107
1987	13,672,274	242,028,466	37,678,713
1988	12,621,940	197,317,374	29,475,018
1989	13,281,913	238,795,215	36,704,459
1990	13,312,708	296,270,061	45,555,126
1991	9,687,804	209,244,835	31,970,172
1992	<u>11,734,026</u>	<u>221,389,956</u>	<u>35,141,369</u>
Total	164,234,084	3,569,121,864	565,016,172

Table 50. Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Texas, 1967-92

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
1967	1,703,385	5,305,062	884,177
1968	1,377,985	4,454,244	742,372
1969	1,245,536	4,361,621	726,926
1970	1,146,941	4,098,461	683,077
1971	974,584	3,674,607	612,435
1972	827,995	3,197,222	532,081
1973	921,970	4,411,721	729,876
1974	929,212	7,307,134	1,201,746
1975	1,001,567	7,834,357	1,290,315
1976	288,863	3,611,930	602,046
1977	715,470	7,219,119	1,201,914
1978	1,167,534	13,634,861	2,272,490
1979	1,464,382	16,608,588	2,767,935
1980	1,800,632	32,864,335	5,477,282
1981	5,546,758	110,572,409	18,420,567
1982	6,817,769	222,941,046	37,164,272
1983	8,631,085	262,212,362	40,511,810
1984	8,312,675	251,541,554	40,498,198
1985	8,094,708	223,429,211	35,379,869
1986	8,681,976	146,060,721	23,426,127
1987	10,961,868	190,594,462	30,711,312
1988	13,493,836	208,689,903	31,567,464
1989	12,605,928	225,131,932	34,461,134
1990	13,127,219	289,789,694	45,417,330
1991	14,211,624	291,163,274	46,584,219
1992	<u>11,848,136</u>	<u>217,848,070</u>	<u>35,233,727</u>
Total	137,899,638	2,758,557,900	439,100,701

Table 51. Crude Oil and Condensate Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Texas, 1955–92

<i>Year</i>	<i>Sales Volume (bbl)</i>	<i>Sales Value (\$)</i>	<i>Royalties Received (\$)</i>
1955	1,956	5,905	979
1956	13,284	40,259	6,675
1957	5,792	19,889	3,296
1958	0	0	0
1959	257	847	141
1960	98	284	47
1961	0	0	0
1962	3,483	11,024	1,837
1963	52,804	159,764	26,627
1964	4,953	14,699	2,449
1965	3,747	10,042	1,666
1966	882,598	2,664,147	444,017
1967	2,865,786	8,930,485	1,488,413
1968	3,110,642	9,989,700	1,664,949
1969	2,759,851	9,553,154	1,591,971
1970	2,247,048	7,955,061	1,325,792
1971	1,685,047	6,285,475	1,044,148
1972	1,733,018	6,604,925	1,095,403
1973	1,617,829	7,129,128	1,179,541
1974	1,381,825	9,794,344	1,613,478
1975	1,340,136	9,649,510	1,589,833
1976	1,054,554	10,802,699	1,778,835
1977	909,037	9,116,074	1,514,750
1978	2,107,599	23,345,652	3,858,386
1979	3,595,546	43,194,644	7,203,091
1980	10,502,007	198,862,396	33,143,332
1981	14,284,661	438,571,199	73,084,362
1982	17,263,766	559,824,449	93,322,735
1983	19,710,197	592,291,420	91,449,795
1984	21,960,086	644,586,996	103,778,515
1985	20,640,957	569,787,128	90,226,533
1986	19,835,882	330,215,223	51,175,234
1987	24,634,142	432,622,928	68,390,025
1988	26,115,776	406,007,277	61,042,482
1989	25,887,841	463,927,147	71,165,593
1990	26,439,927	586,059,755	90,972,456
1991	23,899,428	500,408,109	78,554,391
1992	<u>23,582,162</u>	<u>439,238,026</u>	<u>70,375,096</u>
Total	302,133,722	6,327,679,764	1,004,116,873

Table 52. Natural Gas Sales Volume, Sales Value, and Royalties Received from Federal Leases Offshore Texas, 1957-92

Year	Sales Volume (Mcf)	Sales Value (\$)	Royalties Received (\$)
1957	4,797	480	84
1958	0	0	0
1959	0	0	0
1960	0	0	0
1961	0	0	0
1962	0	0	0
1963	0	0	0
1964	0	0	0
1965	0	0	0
1966	42,059,386	6,915,584	1,152,598
1967	99,952,946	17,087,626	2,847,938
1968	109,910,787	18,072,163	3,012,028
1969	127,096,982	20,447,082	3,407,848
1970	133,300,404	20,816,080	3,469,347
1971	127,357,908	19,965,436	3,327,573
1972	147,156,459	24,773,734	4,128,957
1973	148,673,637	27,766,325	4,627,694
1974	159,979,401	31,695,920	5,282,655
1975	122,572,764	34,696,435	5,782,740
1976	92,582,425	29,148,079	4,858,005
1977	86,943,285	52,061,701	8,676,941
1978	231,857,450	285,943,974	47,652,320
1979	511,590,607	898,140,521	149,690,101
1980	624,642,526	1,304,676,689	217,446,169
1981	730,275,831	1,811,533,970	301,923,690
1982	858,020,298	2,299,494,400	383,325,783
1983	850,817,211	2,594,992,494	421,686,280
1984	931,293,582	3,083,711,594	522,884,515
1985	834,926,523	2,749,103,504	459,478,794
1986	978,370,552	2,383,174,819	414,710,941
1987	1,204,488,337	2,247,918,432	384,622,693
1988	1,178,422,561	2,147,898,236	375,221,062
1989	1,165,112,953	2,171,092,310	374,747,729
1990	1,348,075,361	2,436,768,679	404,979,925
1991	1,184,936,494	1,962,252,569	329,019,995
1992	<u>1,239,389,547</u>	<u>2,028,031,701</u>	<u>344,239,137</u>
Total	15,269,811,014	30,708,180,537	5,182,203,543

Figure 7. Total Federal Offshore Crude Oil and Condensate Sales Volume Compared to Federal Leases Offshore Louisiana.

Figure 8. Total Federal Offshore Natural Gas Sales Volume Compared to Federal Leases Offshore Louisiana.

VI. Revenue from Federal Offshore Leases

Annual and cumulative mineral revenue from the OCS mineral leasing program are shown in table 53. The contributions from Federal leases of adjacent States are shown in table 54. Revenue by commodity is shown in tables 55 through 58. The OCS mineral leasing program generates revenue from the following sources:

- **Bonus bids** paid on tracts at lease offerings;
- **Annual rental payments** on leases not in production;
- **Minimum royalties** assessed on producible leases that are not actively producing;
- **Shut-in gas payments** on producible gas wells closed temporarily because of mechanical, safety, or other problems; and
- **Royalties** paid on sales of crude oil, condensate, natural gas, oil lost, gas lost, gas plant products, sulphur, and salt.

The major sources of OCS revenue are bonuses, and oil and natural gas royalties, which accounted for 93 percent of total OCS mineral revenue in 1992. The number one contributor to OCS revenue in 1992 was the royalties paid for crude oil, condensate, and natural gas. Crude oil, condensate, and natural gas royalties made up 90 percent of total OCS mineral revenue in 1992, with natural gas royalties being responsible for 56 percent of total mineral royalties.

In 1992, lease sale bonuses totaled about \$85 million, which was about 3 percent of OCS revenue. This total for bonus monies was the lowest it has been since 1971. This was smaller than the combined contribution of rental payments and minimum royalties which was about 4 percent. This was the first time since 1961 that the total of rental payments and minimum royalties was more than bonus payments from lease sales. Over the life of the program, bonuses have played a much larger role, generating 55 percent of OCS mineral revenue since 1954 compared to 43 percent from crude oil, condensate, and natural gas royalties (see fig. 9).

Tables 59 through 70 show annual OCS revenue generated by adjacent State or planning area. Leases offshore Louisiana have generated more revenue than any other State both in 1992 and over the life of the program. In 1992, OCS leases offshore Louisiana generated 78 percent of total OCS revenue (see fig. 10). Since 1954, OCS leases offshore Louisiana have been the source of 65 percent of total OCS mineral revenue.

👉 This page is intentionally blank 👈

Table 53. All Coastal States: Annual and Cumulative Mineral Revenue and Sales Value from Federal Offshore Leases, pre- 1954-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-in Payments (\$)	Oil & Gas Royalties¹ (\$)
pre-1954	0	1,359,630	0	30,650	967,902
1954	140,969,005	3,855,333	0	86,950	2,748,977
1955	108,528,726	3,406,351	0	122,000	5,140,006
1956	0	4,006,193	0	79,950	7,629,383
1957	0	3,270,122	68,581	110,268	11,391,245
1958	0	2,420,584	184,396	121,218	17,423,878
1959	89,746,992	2,285,725	171,036	84,984	26,539,977
1960	282,717,065	3,603,140	316,975	49,350	36,807,725
1961	0	3,073,861	314,121	37,100	46,733,742
1962	489,481,061	8,412,207	517,722	62,200	65,255,210
1963	12,807,337	8,435,184	668,339	52,950	75,373,865
1964	95,874,327	9,798,573	820,343	45,800	86,535,306
1965	33,740,309	8,731,378	1,072,699	38,450	99,656,284
1966	209,199,893	6,869,277	1,367,250	41,700	132,849,922
1967	510,109,742	6,208,936	1,891,515	41,400	153,432,383
1968	1,346,487,097	8,230,787	2,145,178	52,300	196,491,385
1969	111,660,685	8,312,607	1,923,632	41,650	235,681,825
1970	945,064,773	8,607,855	1,745,864	47,700	276,521,689
1971	96,304,523	7,741,997	1,891,000	32,300	340,634,893
1972	2,251,347,556	7,984,897	2,019,533	49,550	353,581,931
1973	3,082,462,611	8,948,816	2,391,249	52,650	389,735,839
1974	5,022,860,815	13,532,754	2,048,439	32,550	536,018,955
1975	1,088,133,152	17,522,037	2,085,885	39,500	594,725,462
1976	2,242,898,467	23,370,502	2,128,336	38,400	680,392,716
1977	1,568,564,745	19,830,026	1,678,957	21,106	890,469,825
1978	1,767,042,064	21,512,669	2,207,183	3,950	1,139,198,244
1979	5,078,861,692	20,287,300	2,088,478	6,632	1,512,017,664
1980	4,204,640,257	19,062,498	2,291,433	0	2,132,528,739
1981	^a 6,652,980,897	21,731,035	2,250,300	0	3,287,279,402
1982	3,987,490,009	20,055,201	2,393,759	0	3,814,871,635
1983	5,749,016,369	32,463,097	4,463,658	0	3,454,318,079
1984	3,928,876,308	35,607,835	3,458,139	0	3,914,724,597
1985	1,557,650,714	61,999,144	4,067,321	0	3,612,782,779
1986	187,094,747	52,958,237	5,176,608	0	2,533,376,687
1987	497,247,006	74,642,712	21,399,332	0	2,337,034,925
1988	1,259,548,738	62,867,785	16,822,821	0	2,057,756,231
1989	645,646,870	79,247,653	38,890,914	0	2,118,785,490
1990	584,301,918	79,339,130	19,298,248	0	2,630,318,068
1991	338,856,549	78,115,402	20,677,698	0	2,283,457,651
1992	<u>84,784,975</u>	<u>59,598,811</u>	<u>39,743,046</u>	<u>0</u>	<u>2,301,849,425</u>
Total	56,252,968,534	919,407,281	212,679,988	1,423,258	44,393,029,941

Footnotes at end of table.

Table 53. All Coastal States: Annual and Cumulative Mineral Revenue and Sales Value from Federal Offshore Leases, pre- 1954-92 — *continued*

<i>Year</i>	<i>Other Mineral Revenue¹ (\$)</i>	<i>Total Mineral Revenue² (\$)</i>	<i>Cumulative Mineral Revenue¹ (\$)</i>	<i>Total Sales Value (\$)</i>	<i>Cumulative Sales Value (\$)</i>	<i>Federal Percent Share³</i>
pre-1954	0	2,365,530	2,365,530	5,036,861	5,036,861	47
1954	0	147,660,265	150,025,795	14,370,098	19,406,959	773
1955	0	117,197,083	267,222,878	27,060,679	46,467,638	575
1956	0	11,715,526	278,938,404	39,497,871	85,965,509	324
1957	0	14,840,216	293,778,620	61,072,588	147,038,097	200
1958	0	20,150,076	313,928,696	96,471,136	243,509,233	129
1959	0	118,828,714	432,757,410	150,472,527	393,981,760	110
1960	287,576	323,781,831	756,539,241	200,969,615	594,951,375	127
1961	1,186,590	51,345,414	807,884,655	273,636,456	868,587,831	93
1962	841,124	564,569,524	1,372,454,179	376,675,900	1,245,263,731	110
1963	1,625,360	98,963,035	1,471,417,214	450,866,484	1,696,130,215	87
1964	1,864,924	194,939,273	1,666,356,487	506,783,510	2,202,913,725	76
1965	3,206,256	146,445,376	1,812,801,863	594,222,732	2,797,136,457	65
1966	4,137,615	354,465,657	2,167,267,520	801,724,611	3,598,861,068	60
1967	4,175,226	675,859,202	2,843,126,722	947,214,691	4,546,075,759	63
1968	4,645,542	1,558,052,289	4,401,179,011	1,179,912,209	5,725,987,968	77
1969	4,408,835	362,029,234	4,763,208,245	1,443,870,472	7,169,858,440	66
1970	6,972,879	1,238,960,760	6,002,169,005	1,707,593,450	8,877,451,890	68
1971	9,407,595	456,012,308	6,458,181,313	2,135,677,078	11,013,128,968	59
1972	9,974,408	2,624,957,875	9,083,139,188	2,229,179,121	13,242,308,089	69
1973	11,390,275	3,494,981,440	12,578,120,628	2,486,864,855	15,729,172,944	80
1974	24,264,934	5,598,758,447	18,176,879,075	3,570,053,959	19,299,226,903	94
1975	20,819,108	1,723,325,144	19,900,204,219	3,924,914,930	23,224,141,833	86
1976	19,032,074	2,967,860,495	22,868,064,714	4,402,439,996	27,626,581,829	83
1977	29,177,641	2,509,742,300	25,377,807,014	5,774,056,434	33,400,638,263	76
1978	11,147,838	2,941,111,948	28,318,918,962	7,096,500,055	40,497,138,318	70
1979	3,330,286	6,616,592,052	34,945,511,014	9,273,278,309	49,770,416,627	70
1980	4,134,686	6,362,650,265	41,298,161,279	13,055,515,832	62,825,932,459	66
1981	1,270,822	9,965,512,456	51,263,673,735	20,199,823,201	83,025,755,660	62
1982	0	7,824,810,604	59,088,484,339	22,573,099,138	105,598,854,798	56
1983	0	9,240,261,203	68,328,745,542	21,540,887,499	127,139,742,297	54
1984	49,456,076	7,932,122,955	76,260,868,497	24,001,446,123	151,141,188,420	50
1985	26,030,597	5,262,530,555	81,523,399,052	22,153,497,042	173,294,685,462	47
1986	26,283,936	2,804,890,215	84,328,289,267	15,711,161,561	189,005,847,023	45
1987	14,129,101	2,944,453,076	87,272,742,343	14,575,635,158	203,581,482,181	43
1988	20,845,382	3,417,840,957	90,690,583,300	12,929,511,935	216,510,994,116	42
1989	32,604,073	2,915,145,540	93,605,728,840	13,352,682,705	229,863,676,821	41
1990	54,481,455	3,367,738,819	96,973,467,659	16,916,343,010	246,780,019,831	39
1991	72,059,198	2,793,166,498	99,766,634,157	14,846,275,327	261,626,295,158	38
1992	<u>75,339,395</u>	<u>2,561,405,652</u>	<u>102,328,039,809</u>	<u>15,144,392,460</u>	<u>276,770,687,618</u>	<u>37</u>
Total	548,530,807	102,328,039,80	1,240,229,065,4211	276,770,687,618	2,601,232,540,134	48

Footnotes at end of table.

Table 53. All Coastal States: Annual and Cumulative Mineral Revenue and Sales Value from Federal Offshore Leases, pre- 1954-92 — *continued*

¹ Royalties for condensate are included in the oil and gas royalties. Data for condensate are reported separately in tables 35, 40, 44, and 50.

² *Other Mineral Revenue* includes the 1960-91 royalties for gas lost (\$13,907,597), oil lost (\$136,094), sulphur (\$61,390,870), gasoline and LPG (\$472,932,671), and salt (\$163,575).

³ No monies from Sale PH (12/15/61) are reported as Federal revenue in this table (See table 3).

⁴ Escrow funds distributed to the State of Louisiana and lessees, pursuant to decrees of the U.S. Supreme Court, are not deducted from the *Cumulative Mineral Revenues* reported in this table.

⁵ *Federal Percent Share* is the Federal Government's share of the mineral revenues from the competitive leasing and private development of Federal oil and gas and other leases on the OCS. The percentage figure represents *Cumulative Mineral Revenue* divided by *Cumulative Sales Value*. (Sales value for royalty purposes means the mineral's monetary worth at the time of its production, not its current sale price).

⁶ As adjusted, this 1981 figure now includes \$10,846,000 paid in 1984 for leases on five tracts. Timely issuance of those leases was held up, pending resolution of litigation.

Table 54. Total Revenue from Mineral Leases on the Federal OCS by Adjacent State or OCS Planning Area, 1954-92

<i>State/ Planning Area</i>	<i>Bonus Payments (\$)</i>	<i>Rental Payments (\$)</i>	<i>Minimum Royalties (\$)</i>	<i>Shut-in Gas Production (\$)</i>	<i>Production¹ Royalties (\$)</i>	<i>Total Revenue by State or OCS Planning Area (\$)</i>
Alabama	712,631,014	3,843,211	2,780,103	0	18,753,869	738,008,197
Alaska	6,462,230,797	124,145,859	745,010	0	0	6,587,121,666
California	3,916,123,323	37,329,956	5,819,186	0	1,490,731,730	5,450,004,195
Florida	1,629,007,590	12,510,804	0	0	0	1,641,543,319
Louisiana	29,048,899,936	569,313,012	160,534,486	1,423,258	37,221,219,914	67,001,390,606
Mississippi	271,723,950	1,424,795	230,535	0	0	273,379,280
Oregon	27,768,773	3,759,021	0	0	0	31,527,794
Texas	11,336,673,216	126,662,809	42,496,940	0	6,210,853,722	17,716,686,707
Washington	7,764,928	1,399,080	0	0	0	9,164,008
Mid-Atlantic	1,563,897,654	26,236,234	73,728	0	0	1,590,238,716
North Atlantic	816,516,546	5,185,782	0	0	0	821,702,328
South Atlantic	<u>459,730,807</u>	<u>7,651,994</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>467,382,801</u>
Total	56,252,968,534	919,407,281	212,679,988	1,423,258	44,941,559,235	102,328,139,517

¹ These royalties include: \$472,932,671 for gasoline and LPG; \$13,907,597 for gas lost; and \$136,094 for oil lost; \$61,390,870 for sulphur; and \$163,575 for salt. See table 55 for a reporting of royalties for these commodities by year.

NOTE: See table 52 for comparable revenue statistics per annum.

Table 55. Total Revenues from Sulphur and Salt Leases on the Federal OCS by Adjacent State or OCS Planning Area, 1954-92

<i>OCS Leases by Adjacent State</i>	<i>Bonus Payments (\$)</i>	<i>Rental Payments (\$)</i>	<i>Minimum Royalties (\$)</i>	<i>Production Royalties (\$)</i>	<i>Total Revenue (\$)</i>
Alabama					
Sulphur	0	0	0	1,116	1,116
California					
Sulphur	0	0	0	1,544	1,544
Louisiana					
Sulphur	1,948,650	621,839	17,392	61,388,210	63,976,091
Salt	105,814	29,940	59,500	163,575	358,829
Salt & Sulphur	15,149,327	428,058	0	0	15,577,385
Texas					
Sulphur	<u>33,740,309</u>	<u>635,310</u>	<u>39,420</u>	<u>0</u>	<u>34,415,039</u>
Total	50,944,100	1,715,147	116,312	61,554,445	114,330,004

NOTE: For other Federal sulphur and salt information, see table 3 for offerings, bids, and bonuses in sulphur leases in 1954 and 1965, salt leases in 1960, 1967, and 1969, and salt and sulphur leases in 1988. Table 11 shows operation activity, table 54 sales value data, table 55 royalty data, and table 56 summary totals.

Table 56. Sales Value for Sulphur, Salt, Gasoline and LPG, Gas Lost, and Oil Lost from Federal Offshore Leases, 1960-92

Year	Sulphur (\$)	Salt (\$)	Gasoline & LPG (\$)	Gas Lost (\$)	Oil Lost (\$)	Yearly Total (\$)
1960	1,762,866	10,764	0	0	0	1,773,630
1961	7,252,931	95,142	0	0	0	7,348,073
1962	5,507,050	31,848	0	0	0	5,538,898
1963	11,069,637	47,334	0	0	0	11,116,971
1964	12,748,602	38,334	0	0	0	12,786,936
1965	23,387,005	52,334	0	0	0	23,439,339
1966	32,621,551	53,544	0	0	0	32,675,095
1967	37,291,107	49,396	0	0	0	37,340,503
1968	53,277,667	97,317	0	0	0	53,374,984
1969	49,129,573	61,751	9,777,811	0	0	58,969,135
1970	24,636,736	48,544	51,180,237	0	0	75,865,517
1971	23,718,311	66,673	80,563,166	0	0	104,348,150
1972	22,286,906	64,581	89,214,084	0	0	111,565,571
1973	23,748,632	68,624	105,437,650	0	0	129,254,906
1974	34,820,443	62,354	254,743,978	3,933,524	16,406	293,576,705
1975	69,737,571	(54,212)	216,042,645	4,636,434	26,404	290,388,842
1976	1,036,964,673	(20,446)	246,449,316	6,522,116	13,893	216,187,728
1977	0	0	314,642,294	9,159,109	276,992	324,078,395
1978	(27,891)	0	85,728,017	20,950,991	304,009	106,955,126
1979	0	0	1,073,124,991	20,732,506	67,272	20,182,945
1980	0	0	3,271,711	23,811,929	107,410	27,191,050
1981	0	0	2,640,193	6,417,800	9,755	9,067,748
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	333,156,337	0	0	333,156,337
1985	0	0	166,784,148	1,069,525,859	0	162,568,183
1986	0	0	164,258,808	328,042	815	164,587,665
1987	0	0	95,336,708	556,373	46	95,893,127
1988	104,932	2,619	168,314,496	144,201	140	168,566,388
1989	17,506,189	63,556	247,308,996	1,067,559,123	(423)	258,695,617
1990	91,967,724	54,404	385,050,216	419,753	0	477,492,097
1991	95,706,063	35,701	541,736,415	366,872	106	637,845,157
1992	<u>67,513,203</u>	<u>140,730</u>	<u>590,793,743</u>	<u>1,420,248</u>	<u>0</u>	<u>659,867,924</u>
Total	668,989,657	1,070,892	4,151,814,136	89,001,232	822,825	4,911,698,742

Table 57. Royalties for Sulfur, Salt, Gasoline and Liquified Petroleum Gas, Gas Lost, and Oil Lost from Federal Offshore Leases, 1960-92

Year	Sulphur (\$)	Salt (\$)	Gasoline & LPG (\$)	Gas Lost (\$)	Oil Lost (\$)	Total Royalties (\$)
1960	285,784	1,792	0	0	0	287,576
1961	1,170,733	15,857	0	0	0	1,186,590
1962	835,816	5,308	0	0	0	841,124
1963	1,617,471	7,889	0	0	0	1,625,360
1964	1,858,535	6,389	0	0	0	1,864,924
1965	3,197,532	8,724	0	0	0	3,206,256
1966	4,128,691	8,924	0	0	0	4,137,615
1967	4,167,804	7,422	0	0	0	4,175,226
1968	4,628,512	17,030	0	0	0	4,645,542
1969	3,684,432	10,292	714,111	0	0	4,408,835
1970	3,235,874	8,091	3,728,914	0	0	6,972,879
1971	3,452,117	11,112	5,944,366	0	0	9,407,595
1972	3,438,515	10,764	6,525,129	0	0	9,974,408
1973	3,610,757	11,437	7,768,081	0	0	11,390,275
1974	3,852,700	10,392	19,796,332	602,715	2,795	24,264,934
1975	3,737,784	(8,469)	16,375,770	709,658	4,365	20,819,108
1976	(1,651,794)	(3,408)	19,655,521	1,029,451	2,304	19,032,074
1977	0	0	27,687,770	1,443,719	46,152	29,177,641
1978	(4,648)	0	7,744,713	3,357,374	50,399	11,147,838
1979	0	0	12,157	3,307,259	10,870	3,330,286
1980	0	0	309,011	3,808,206	17,469	4,134,686
1981	0	0	427,803	841,393	1,626	1,270,822
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	49,456,076	0	0	49,456,076
1985	0	0	26,732,896	(702,299)	0	26,030,597
1986	0	0	26,229,226	54,574	136	26,283,936
1987	0	0	14,048,961	80,132	8	14,129,101
1988	17,524	437	20,808,745	18,653	23	20,845,382
1989	2,923,525	10,614	30,640,383	(970,378)	(71)	32,604,073
1990	4,598,386	9,086	49,806,815	67,168	0	54,481,455
1991	4,785,304	5,926	67,187,838	80,112	18	72,059,198
1992	<u>3,819,516</u>	<u>7,966</u>	<u>71,332,053</u>	<u>179,860</u>	<u>0</u>	<u>75,339,395</u>
Total	61,390,870	163,575	472,932,671	13,907,597	136,094	548,530,807

Table 58. Oil and Gas and Sulphur and Salt Revenue from Federal Offshore Leases, 1953-92

<i>Minerals</i>	<i>Bonus Payments (\$)</i>	<i>Rental Payments (\$)</i>	<i>Minimum Royalties (\$)</i>	<i>Shut-in Gas Payments (\$)</i>	<i>Production Royalties (\$)</i>	<i>Total Revenue (\$)</i>
Oil & Gas	56,202,024,434	917,692,134	212,563,676	1,423,258	44,880,006,303	102,213,709,805
Sulphur & Salt	<u>50,944,100</u>	<u>1,672,826</u>	<u>116,312</u>	<u>0</u>	<u>57,726,963</u>	<u>110,460,201</u>
Total	56,252,968,534	919,407,281	212,679,988	1,423,258	44,941,560,748	102,328,039,809

Table 59. Alabama OCS: Revenue from Federal Oil and Gas Leases, 1973-92

<i>Year</i>	<i>Bonus Payments (\$)</i>	<i>Rental Payments (\$)</i>	<i>Minimum Royalties (\$)</i>	<i>Shut-in Gas Payments (\$)</i>	<i>Production Royalties¹ (\$)</i>	<i>Annual Revenue (\$)</i>
1973	135,834,100	222,318	0	0	0	136,056,418
1974	0	187,758	0	0	0	187,758
1975	0	187,758	0	0	0	187,758
1976	0	187,758	0	0	0	187,758
1977	0	120,960	0	0	0	120,960
1978	17,353,000	154,605	0	0	0	17,507,605
1979	0	51,840	0	0	0	51,840
1980	0	207,360	0	0	0	207,360
1981	0	154,602	0	0	0	154,602
1982	218,707,403	85,485	0	0	0	218,792,888
1983	41,667,460	85,485	0	0	0	41,752,945
1984	168,541,640	122,820	0	0	0	168,664,460
1985	93,314,800	340,409	34,038	0	0	93,689,247
1986	16,545,148	450,034	51,318	0	0	17,046,500
1987	15,627,000	548,601	101,859	0	0	16,277,460
1988	0	130,884	209,011	0	0	339,895
1989	1,711,900	160,020	191,949	0	0	2,063,869
1990	2,812,682	155,469	252,089	0	0	3,220,240
1991	381,906	141,522	248,742	0	0	772,170
1992	<u>133,975</u>	<u>147,523</u>	<u>1,691,097</u>	<u>0</u>	<u>18,753,869</u>	<u>20,726,464</u>
Total	712,631,014	3,843,211	2,780,103	0	18,753,869	738,008,197

¹ These royalties include \$1,116 for sulphur.

Table 60. Alaska OCS: Revenue from Federal Oil and Gas Leases, 1976-92

<i>Year</i>	<i>Bonus Payments (\$)</i>	<i>Rental Payments (\$)</i>	<i>Minimum Royalties (\$)</i>	<i>Shut-in Gas Payments (\$)</i>	<i>Production Royalties (\$)</i>	<i>Annual Revenue (\$)</i>
1976	559,836,587	1,226,718	0	0	0	561,063,305
1977	398,471,313	2,796,157	0	0	0	401,267,470
1978	0	2,813,129	0	0	0	2,813,129
1979	488,691,137	2,395,763	0	0	0	491,086,900
1980	109,751,073	2,036,436	0	0	0	111,787,509
1981	4,576,395	1,722,966	0	0	0	6,299,361
1982	2,055,632,336	1,965,516	0	0	0	2,057,597,852
1983	744,332,202	4,248,241	12,516	0	0	748,592,959
1984	1,388,281,658	4,601,574	39,934	0	0	1,392,923,166
1985	0	11,603,554	112,088	0	0	11,715,642
1986	0	7,561,960	56,792	0	0	7,618,752
1987	0	7,677,314	71,320	0	0	7,748,634
1988	688,733,767	16,915,379	130,696	0	0	705,779,842
1989	0	18,708,334	102,480	0	0	18,810,814
1990	0	15,255,133	84,048	0	0	15,339,181
1991	23,924,329	15,243,423	67,568	0	0	39,235,320
1992	<u>0</u>	<u>7,374,262</u>	<u>67,568</u>	<u>0</u>	<u>0</u>	<u>7,441,830</u>
Total	6,462,230,797	124,145,859	745,010	0	0	6,587,121,666

Table 61. California OCS: Revenue from Federal Oil and Gas Leases, 1963-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-in Gas Payments (\$)	Production Royalties¹ (\$)	Annual Revenue (\$)
1963	12,807,337	938,838	0	0	0	13,746,175
1964	0	938,838	0	0	0	938,838
1965	0	817,878	0	0	0	817,878
1966	21,189,000	568,658	0	0	0	21,757,658
1967	0	34,560	0	0	0	34,560
1968	602,719,262	1,089,543	0	0	906,430	604,715,235
1969	0	1,056,063	0	0	4,891,885	5,947,948
1970	0	974,817	17,280	0	12,599,910	13,592,007
1971	0	953,913	51,435	0	17,115,304	18,120,652
1972	0	965,940	55,388	0	12,140,515	13,161,843
1973	0	544,516	77,592	0	10,907,328	11,529,436
1974	0	404,631	0	0	13,249,941	13,654,572
1975	417,312,141	1,662,867	25,752	0	10,812,254	429,813,014
1976	0	892,145	(43,368)	0	11,043,334	11,892,111
1977	0	1,328,966	0	0	9,990,581	11,319,547
1978	0	1,665,835	0	0	12,020,055	13,685,890
1979	572,825,418	2,305,301	77,592	0	13,327,448	588,535,759
1980	0	2,213,979	77,592	0	18,973,897	21,265,468
² 1981	2,088,881,824	2,275,512	154,227	0	88,192,738	2,179,504,301
1982	122,244,753	2,051,874	171,507	0	171,929,075	296,397,209
1983	16,022,336	1,821,505	481,932	0	176,833,404	195,159,177
1984	62,121,252	1,937,130	178,119	0	139,302,841	203,539,342
1985	0	1,995,694	451,785	0	148,751,441	151,198,920
1986	0	1,862,983	445,015	0	85,861,479	88,169,477
1987	0	1,848,659	434,917	0	93,776,275	96,059,851
1988	0	1,130,759	646,162	0	68,819,19	70,596,088
1989	0	1,104,568	526,300	0	82,587,466	84,216,851
1990	0	901,733	551,205	0	112,479,294	113,932,232
1991	0	640,071	441,400	0	83,866,615	84,948,086
1992	0	402,180	997,354	0	90,354,536	91,754,070
Total	3,916,123,323	37,329,956	5,819,186	0	1,490,733,243	5,450,005,708

¹ These royalties include \$515,767 paid for gasoline and LPG, \$67,125 paid for gas lost, and \$1,544 for sulphur.

² The 1981 bonuses reported here include payments of \$10,846,000 from Sale 53 for five leases that could not be issued until 1984 because of litigation. In the same sale, certain bidders relinquished their rights to lease 12 other tracts and forfeited \$41,081,734 or one-fifth of the \$205,408,672 they had bid for those tracts.

Table 62. Florida OCS: Revenue from Federal Oil and Gas Leases, 1959-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-In Gas Payments (\$)	Production Royalties (\$)	Annual Revenue (\$)
1959	1,711,872	397,440	0	0	0	2,109,312
1960	0	397,440	0	0	0	397,440
1961	0	397,440	0	0	0	397,440
1962	0	190,080	0	0	0	190,080
¹ 1963-72	0	0	0	0	0	0
1973	1,100,399,131	1,071,360	0	0	0	1,101,470,491
1974	0	881,280	0	0	0	881,280
1975	0	881,280	0	0	0	881,280
1976	4,040,000	829,440	0	0	0	4,869,440
1977	0	604,800	0	0	0	604,800
1978	43,823,730	604,800	0	0	0	44,428,530
1979	0	276,480	0	0	0	276,480
1980	0	379,245	0	0	0	379,245
1981	3,515,000	449,260	0	0	0	3,964,260
1982	2,457,000	604,800	0	0	0	3,061,800
1983	1,795,000	604,800	0	0	0	2,399,800
1984	310,586,261	138,240	0	0	0	310,724,501
1985	119,097,298	1,402,632	0	0	0	120,499,930
1986	0	138,240	0	0	0	138,240
1987	0	0	0	0	0	0
1988	41,582,298	1,972,047	0	0	0	43,554,345
1989	0	(14,825)	0	0	0	(14,825)
1990	0	88,527	0	0	0	88,527
1991	0	110,191	0	0	0	110,191
1992	<u>0</u>	<u>105,807</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>105,807</u>
Total	1,629,007,590	12,510,804	0	0	0	1,614,533,219

¹ No oil and gas leases in force on Federal offshore lands in this area from 1963-72.

Table 63. Louisiana OCS: Revenue from Federal Oil and Gas Leases, 1953-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-In Gas Payments (\$)	Production Royalties¹ (\$)	Annual Revenues (\$)
1953	0	1,271,790	0	30,650	967,892	2,270,332
1954	116,378,476	3,516,043	0	86,950	2,748,977	122,730,446
1955	100,091,264	2,819,231	0	122,000	5,139,027	108,171,522
1956	0	3,259,704	0	79,950	7,622,708	10,962,362
1957	0	2,930,301	67,201	110,268	11,387,865	14,495,635
1958	0	2,140,584	184,396	121,218	17,423,878	19,870,076
1959	88,035,120	1,780,026	171,036	84,984	26,539,836	116,611,002
1960	246,909,784	2,422,790	299,695	49,350	36,807,678	286,489,297
1961	0	1,984,441	291,790	37,100	46,733,742	49,047,073
1962	488,923,341	7,707,267	497,202	62,200	65,253,373	562,443,383
1963	0	7,059,246	632,376	52,950	75,347,238	83,091,810
1964	60,340,626	7,040,422	823,439	45,800	112,999,967	154,439,969
1965	0	5,909,553	1,021,505	38,450	126,121,728	106,280,951
1966	238,958,065	4,736,294	1,327,830	41,700	131,253,307	376,317,196
1967	510,079,178	5,500,516	1,888,758	41,400	149,096,032	666,605,884
1968	149,868,789	5,275,979	2,140,858	52,300	190,907,982	348,245,908
1969	110,945,535	5,584,162	1,922,340	41,650	226,504,238	344,997,925
1970	945,064,773	6,243,362	1,692,274	47,700	262,709,833	1,215,757,942
1971	96,304,523	5,687,848	1,564,845	32,300	324,815,819	428,405,335
1972	2,251,347,556	6,396,291	1,725,573	49,550	342,476,302	2,601,995,272
1973	193,031,709	5,272,797	2,005,785	52,650	380,509,177	580,872,118
1974	3,528,744,084	8,350,760	1,739,159	32,550	535,836,029	4,074,702,582
1975	325,424,688	8,947,571	1,837,253	39,500	593,359,397	929,608,409
1976	482,592,035	12,974,770	1,879,704	38,400	682,922,971	1,180,407,880
1977	813,991,004	7,740,185	1,248,616	21,106	899,016,863	1,722,017,774
1978	1,015,873,944	8,616,027	1,502,963	3,950	1,086,517,424	2,112,514,308
1979	2,521,190,635	7,328,999	1,105,865	6,632	1,344,995,442	3,874,627,573
1980	2,676,927,673	7,361,904	1,277,987	0	1,866,737,837	4,552,305,401
1981	3,308,009,881	8,205,515	1,211,959	0	2,825,271,285	6,142,698,640
1982	1,110,172,751	7,288,316	1,349,850	0	3,166,294,042	4,285,104,959
1983	3,796,644,766	13,620,158	2,540,294	0	2,764,348,600	6,577,153,818
1984	1,154,495,009	16,323,567	2,010,462	0	3,195,995,282	4,368,824,320
1985	830,710,260	33,756,447	2,139,530	0	2,940,519,737	3,807,125,974
1986	113,731,609	34,110,029	3,199,547	0	2,006,205,199	2,157,246,384
1987	247,344,486	52,115,828	19,239,027	0	1,803,208,740	2,121,908,081
1988	388,730,457	35,752,757	8,727,373	0	1,571,981,500	2,004,764,029
1989	386,710,637	48,498,402	26,261,190	0	1,618,163,065	2,079,633,294
1990	421,375,632	55,568,777	16,028,740	0	2,068,487,831	2,561,460,980
1991	276,234,849	59,126,732	15,444,167	0	1,859,392,914	2,210,198,662
1992	<u>53,716,797</u>	<u>49,087,621</u>	<u>33,533,897</u>	<u>0</u>	<u>1,848,599,157</u>	<u>1,984,937,472</u>
Total	29,048,889,936	569,313,012	160,534,486	1,423,258	372,221,219,914	67,001,390,606

¹ These royalties include \$448,553,066 paid for gasoline and LPG; \$13,181,699 paid for gas lost; \$125,398 for oil lost; \$61,388,210 for sulphur, and \$163,575 for salt.

Table 64. Mississippi OCS: Revenue from Federal Oil and Gas Leases, 1973-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-In Gas Payments (\$)	Production Royalties (\$)	Annual Revenue (\$)
1973	115,702,000	103,680	0	0	0	115,805,680
1974	0	120,960	0	0	0	120,960
1975	0	103,680	0	0	0	103,680
1976	0	103,680	0	0	0	103,680
1977	0	69,120	0	0	0	69,120
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	49,731	0	0	0	49,731
1985	155,352,700	334,681	0	0	0	155,687,381
1986	0	103,257	0	0	0	103,257
1987	0	138,240	15,594	0	0	153,834
1988	0	17,280	32,874	0	0	50,154
1989	0	51,840	15,594	0	0	67,434
1990	146,000	69,120	49,731	0	0	264,851
1991	0	51,840	49,731	0	0	101,571
1992	<u>523,250</u>	<u>107,686</u>	<u>67,011</u>	<u>0</u>	<u>0</u>	<u>697,947</u>
Total	271,723,950	1,424,795	230,535	0	0	273,279,280

Table 65. Oregon OCS: Revenue from Federal Oil and Gas Leases, 1964-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-In Gas Payments (\$)	Production Royalties (\$)	Annual Revenue (\$)
1964	27,768,773	1,276,302	0	0	0	29,045,075
1965	0	1,276,302	0	0	0	1,276,302
1966	0	1,034,382	0	0	0	1,034,382
1967	0	137,475	0	0	0	137,475
1968	0	34,560	0	0	0	34,560
1969-92	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	27,768,773	3,759,021	0	0	0	31,527,794

Table 66. Texas OCS: Revenue from Federal Oil and Gas Leases, 1953-92

Year	Bonus Payments	Rental Payments	Minimum Royalties	Shut-In Gas Payments	Production Royalties¹	Annual Revenue
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
1953		87,840	0	0	0	87,840
1954	23,357,029	289,290	0	0	0	23,646,319
1955	8,437,462	537,120	0	0	979	8,975,561
1956	0	696,489	0	0	6,875	703,164
1957	0	289,821	1,380	0	3,380	294,581
1958	0	236,010	0	0	0	236,010
1959	0	64,269	0	0	141	64,410
1960	35,732,031	762,750	17,280	0	47	36,512,108
1961	0	679,320	19,123	0	0	698,443
1962	557,720	502,200	20,520	0	1,837	1,082,277
1963	0	424,440	35,963	0	26,627	487,030
1964	0	686,475	55,060	0	2,449	406,619
1965	0	655,109	109,350	0	1,666	428,760
1966	0	2,933	0	0	1,596,615	1,599,548
1967	0	244,080	2,757	0	4,336,351	4,583,188
1968	593,899,046	1,727,325	4,320	0	4,676,977	600,307,668
1969	0	1,642,275	0	0	4,999,819	6,642,094
1970	0	1,357,695	29,430	0	4,940,860	6,327,985
1971	0	1,072,575	267,840	0	4,648,136	5,988,551
1972	0	602,505	231,692	0	5,490,243	6,324,440
1973	1,537,495,671	1,723,674	302,400	0	6,087,415	1,545,609,160
1974	1,494,116,731	3,570,954	302,400	0	7,334,827	1,505,324,912
1975	345,396,323	5,722,470	216,000	0	7,643,604	358,978,397
1976	68,493,420	5,428,842	285,120	0	7,113,687	81,321,069
1977	356,102,428	5,442,689	423,461	0	10,640,022	372,608,600
1978	589,247,947	5,144,173	697,340	0	51,813,251	646,902,711
1979	639,636,325	4,010,097	900,021	0	157,025,060	801,571,503
1980	1,417,961,511	3,796,514	928,974	0	250,951,691	1,673,638,690
1981	581,572,623	4,448,482	884,114	0	375,086,201	961,991,420
1982	471,495,788	3,891,934	872,402	0	476,648,518	952,908,642
1983	1,066,782,325	7,676,526	1,428,916	0	513,136,075	1,589,023,842
1984	844,850,488	8,545,621	1,155,896	0	628,882,550	1,483,434,555
1985	359,175,656	10,206,431	1,329,880	0	549,542,198	920,254,165
1986	56,817,990	6,738,005	1,423,936	0	467,593,945	532,573,876
1987	234,275,520	10,556,888	1,536,615	0	454,179,011	700,548,034
1988	125,352,889	5,640,007	7,076,705	0	437,782,985	575,852,586
1989	257,224,333	9,578,098	11,793,401	0	447,706,376	726,302,208
1990	159,967,604	6,120,723	2,332,435	0	499,224,926	667,645,688
1991	38,312,393	3,478,608	4,426,090	0	412,257,320	458,474,411
1992	30,411,963	2,381,572	3,386,119	0	419,471,258	455,650,912
	36,673,216	126,662,829	42,496,940	0	6,210,853,722	17,716,686,707

¹ These royalties include \$23,863,838 paid for gasoline and LPG; \$658,773 paid for gas lost; and \$10,696 paid for oil lost.

Table 67. Washington OCS: Revenue from Federal Oil and Gas Leases, 1964-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-in Gas Payments (\$)	Production Royalties (\$)	Annual Revenue (\$)
1964	7,764,928	466,260	0	0	0	8,231,188
1965	0	466,260	0	0	0	466,260
1966	0	362,880	0	0	0	0
1967	0	51,840	0	0	0	51,840
1968	0	51,840	0	0	0	51,840
1969-92	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	7,764,928	1,399,080	0	0	0	9,164,008

Table 68. North Atlantic OCS: Revenue from Federal Oil and Gas Leases, 1979-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-in Gas Payments (\$)	Production Royalties (\$)	Annual Revenue (\$)
1979	816,516,546	1,161,216	0	0	0	817,677,762
1980	0	0	0	0	0	0
1981	0	1,075,977	0	0	0	1,075,977
1982	0	1,075,977	0	0	0	1,075,977
1983	0	1,024,740	0	0	0	1,024,740
1984	0	847,872	0	0	0	847,872
1985-92	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	816,516,546	5,185,782	0	0	0	821,702,328

Table 69. Mid-Atlantic OCS: Revenue from Federal Oil and Gas Leases, 1976-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-in Gas Payments (\$)	Production Royalties (\$)	Annual Revenue (\$)
1976	1,127,936,425	1,714,176	0	0	0	1,129,650,601
1977	0	1,714,176	0	0	0	1,714,176
1978	0	1,714,176	0	0	0	1,714,176
1979	40,001,631	1,957,680	0	0	0	41,959,311
1980	0	2,359,296	0	0	0	2,359,296
1981	323,628,530	1,929,927	0	0	0	325,588,927
1982	3,920,828	2,254,428	0	0	0	6,175,256
1983	68,410,240	2,835,114	0	0	0	71,245,354
1984	0	2,451,456	73,728	0	0	2,525,184
1985	0	1,990,656	0	0	0	1,990,656
1986	0	1,852,137	0	0	0	1,852,137
1987	0	1,415,590	0	0	0	1,415,590
1988	0	967,080	0	0	0	967,080
1989	0	940,032	0	0	0	940,032
1990	0	958,464	0	0	0	958,464
1991	0	(673,450)	0	0	0	(673,450)
1992	0	55,296	0	0	0	55,296
Total	1,563,897,654	26,236,234	73,728	0	0	1,590,238,086

¹ Recoupments were claimed in 1991 by several firms for payments made in prior years.

Table 70. South Atlantic OCS: Revenue from Federal Oil and Gas Leases, 1978-92

Year	Bonus Payments (\$)	Rental Payments (\$)	Minimum Royalties (\$)	Shut-in Gas Payments (\$)	Production Royalties (\$)	Annual Revenue (\$)
1978	100,743,443	792,576	0	0	0	101,536,019
1979	0	792,576	0	0	0	792,576
1980	0	700,416	0	0	0	700,416
1981	342,766,174	1,468,794	0	0	0	344,234,968
1982	2,859,150	836,871	0	0	0	3,696,021
1983	13,362,040	546,528	0	0	0	13,908,568
1984	0	589,824	0	0	0	589,824
1985	0	368,640	0	0	0	368,640
1986	0	341,592	0	0	0	341,592
1987	0	341,592	0	0	0	341,592
1988	0	341,592	0	0	0	341,592
1989	0	221,184	0	0	0	221,184
1990	0	221,184	0	0	0	221,184
1991	0	(3,535)	0	0	0	(3,535)
1992	0	36,864	0	0	0	36,864
Total	459,730,807	7,596,698	0	0	0	467,327,505

¹ Recoupments were claimed in 1991 by several firms for payments made in prior years.

Figure 9. Revenue from Bonus Bids, Rentals and Minimum Royalties, and Oil and Natural Gas Royalties, 1954–92.

Figure 10. Revenue Generated from Federal Offshore Leases by Adjacent State in 1992.

VII. Disbursement of Federal Offshore Revenue

The MMS distributes revenue from Federal offshore leases to the General Fund of the U.S. Treasury, the Land and Water Conservation Fund (LWCF), the National Historic Preservation Fund (NHPF), and coastal States. Total disbursements of OCS revenue since 1955 amount to \$98.9 billion (see table 71). About 81 percent of total disbursements of OCS revenue have gone to the U.S. Treasury General Fund. In 1992, MMS turned over to the U.S. Treasury about \$1.5 billion.

In accordance with Section 8(g) of the OCSLA Amendments of 1978, States must receive some of the revenue from the leasing of lands within 3 miles of the seaward boundary of a coastal State that contain oil and gas fields underlying both the Federal OCS and lands subject to State jurisdiction.

Because the States and the Federal Government could not reach an agreement on a formula for dividing these revenues, the subject monies went into a Section 8(g) escrow fund beginning in August 1979. Revenues from the Beaufort Sea in Alaska went into a second escrow fund under Section 7 beginning in December 1979.

Congress resolved the dispute in the OCSLA Amendments of 1985, Public Law 99-72. The law provides to the States the following distribution of Section 8(g) funds (see table 71):

- Escrow funds to be disbursed in FY 1986 and 1987;
- A series of annual payments disbursed to the States between FY 1987 and 2001; and
- Recurring annual disbursements of 27 percent of royalty, rent, and bonus revenues from Section 8(g) leases.

Congress passed a second law, Public Law 100-102, to distribute the Section 7 Beaufort Sea escrow funds to the State of Alaska in FY 1988 (see table 71). In 1992, MMS disbursements to the States amounted to \$68.4 million.

As amended, the LWCF Act of 1965 requires the National Park Service, since 1978, to keep at least \$900 million in the LWCF each fiscal year (FY). Before FY 1978, the amount was \$300 million. Money for the LWCF comes from surplus property sales held by the General Services Administration, motorboat fuel taxes collected by the U.S. Treasury, and recreation use fees collected by the U.S. Department of the Interior and the U.S. Department of Agriculture. Any difference between these combined receipts and the \$900 million total is made up from OCS revenue.

Since 1971, OCS revenue has provided more than 70 percent of LWCF monies, and in some of those years more than 90 percent (see table 71). In 1992, the LWCF received about \$887

million. The States and Federal Agencies use LWCF grants to buy parks and recreation areas, and to aid in planning, acquiring, and developing land and water areas for recreation use. Since 1965, the LWCF has distributed about \$3.2 billion to States and \$5 billion to Federal Agencies (see table 72).

Revenue from Federal offshore mineral leases sustains the NHPF. The National Historic Preservation Act of 1986, as amended, limits OCS revenue payments into the NHPF to \$150 million. The Act specifies how annual appropriations of the NHPF support matching grants to the States and Territories and to the National Trust for Historic Preservation. Each State or Territory in turn must award 10 percent of its annual NHPF allocation to certified local governments as subgrants. Projects funded by the NHPF include among others, the following:

- Identifying and nominating properties to the National Register of Historic Places (NRHP);
- Protecting NRHP-listed properties and districts affected by federally funded or licensed construction projects;
- Reviewing and recommending to the NPS historic preservation certifications under the Economic Recovery Tax Act of 1981; and
- Setting up rehabilitation standards for public or private properties.

Table 73 shows the amount of monies distributed by the LWCF and NHPF to the States, and U.S. Territories and Possessions in FY 93.

Table 71. Mandated Disbursement by Fiscal Year of Mineral Revenue from Federal OCS Leases, 1955-92

Fiscal Year	U.S. Treasury, General Fund		Land & Water Conservation Fund (\$)	National Historic Preservation Fund (\$)	States (\$)	Total Disbursement ¹ (\$)
	Bonus & Rental Payments (\$)	Royalty Payments (\$)				
1955	142,404,630	0	0	0	0	142,404,630
1956	111,171,041	52,814	0	0	0	111,223,855
1957	(55,457,867)	9,352,889	0	0	0	(46,104,978)
1958	2,630,090	10,686,064	0	0	0	13,316,154
1959	1,145,720	2,266,484	0	0	0	3,412,204
1960	226,616,838	2,839,980	0	0	0	229,456,818
1961	1,716,161	5,588,525	0	0	0	7,304,686
1962	6,006,936	5,605,230	0	0	0	11,612,166
1963	359,370,510	7,443,921	0	0	0	366,814,431
1964	5,870,970	10,620,439	0	0	0	16,491,409
1965	42,223,700	11,246,201	0	0	0	53,469,901
1966	161,893,155	86,424,061	0	0	0	248,317,216
1967	596,202,951	41,107,770	0	0	0	637,310,721
1968	903,330,950	57,935,108	0	0	0	961,266,058
1969	223,821,610	78,083,889	126,873,900	0	0	428,779,399
1970	73,280,497	14,933,349	107,882,204	0	0	196,096,050
1971	680,542,388	159,914,892	210,092,091	0	0	1,050,549,371
1972	28,029,742	27,645,946	223,677,068	0	0	279,352,756
1973	2,704,908,793	1,026,685,098	223,983,126	0	0	3,955,577,017
1974	6,096,405,041	408,101,161	243,887,918	0	0	6,748,394,120
1975	1,688,826,143	491,813,968	247,325,029	0	0	2,427,965,140
1976	1,385,179,272	1,000,627,187	276,641,316	0	0	2,662,447,775
TQ ²	1,090,478,816	178,741,689	41,898,324	0	0	1,311,118,829
1977	1,302,356,698	804,649,966	232,339,865	24,400,000	0	2,363,746,529
1978	320,153,229	1,005,726,401	833,428,546	100,000,000	0	2,259,308,176
1979	1,088,416,655	1,337,744,641	741,214,437	100,000,000	0	3,267,375,733
1980	1,360,713,229	1,839,574,175	900,583,342	0	0	4,100,870,746
1981	6,684,689,957	2,286,169,198	867,123,128	300,000,000	0	10,137,982,283
1982	1,744,453,723	3,529,206,734	825,959,504	150,000,000	0	6,249,619,961
1983	6,579,073,584	2,947,728,610	814,693,040	150,000,000	0	10,491,495,234
1984	2,604,347,777	3,149,777,867	789,421,288	150,000,000	0	6,693,546,932
1985	1,018,662,056	3,588,937,243	784,279,198	150,000,000	0	5,541,878,497
1986	1,188,838,879	2,621,904,068	755,223,819	150,000,000	897,486,953	5,613,453,719
1987	629,745,831	2,418,156,141	823,575,610	150,000,000	681,782,529	4,703,260,111
1988	270,108,066	2,267,821,971	859,761,232	150,000,000	³ 367,020,193	3,914,711,462
1989	(145,215,350)	2,061,666,495	862,760,617	150,000,000	46,849,754	2,976,061,516
1990	259,659	2,010,060,802	843,765,173	150,000,000	49,023,327	3,053,108,961
1991	208,049	2,115,242,775	884,999,910	150,000,000	43,683,226	3,194,133,960
1992	60	1,460,328,533	887,925,509	150,000,000	⁴ 68,391,572	2,566,645,674
Total	41,123,410,189	39,082,412,285	14,409,315,194	2,174,400,000	2,154,237,554	98,943,775,222

¹ Total disbursement does not include the Federal share of escrow interest because interest is not a direct mineral leasing receipt. However, the figures for State's payments include their share of escrow interest. Interest is accrued for the time bid deposits are held in escrow pending fair market determination and other bid acceptance criteria.

² Transition Quarter, which resulted from a change in the end of the Federal Government's FY from June 30 to September 30.

³ From 1988 forward, Alaska's payment includes 27% from part of a disputed Federal/State boundary area in the Beaufort Sea. Part of the disputed area was determined to be in the 8(g) zone. Alaska received \$320 million from monies held in escrow for this area in 1988.

⁴ The increase here is a result of a 1986 Budget Reconciliation Act increase in the settlement payment from \$19.5 million to \$45.5 million.

Table 72. Appropriation and Distribution of Monies by the Land & Water Conservation Fund, Fiscal Year 1965–93 and Appropriations for the National Historic Preservation Fund, Fiscal Year 1967–93

Fiscal Year	Land and Water Conservation Fund			National Historic Preservation Fund
	Grants to States (\$)	Grants to Federal Agencies (\$)	Total Appropriations ¹ (\$)	Appropriations (\$)
1965	10,375,000	5,555,000	16,000,000	N/A
1966	82,408,718	39,183,000	125,000,000	N/A
1967	56,531,090	41,737,000	110,000,000	0
1968	61,557,248	51,416,000	119,191,000	300,000
1969	45,000,000	116,725,000	164,500,000	100,000
1970	62,000,000	65,900,000	131,100,000	969,000
1971	185,400,000	167,841,000	357,400,000	5,980,000
1972	255,000,000	101,669,000	361,500,000	5,980,000
1973	181,800,000	112,957,000	300,000,000	7,505,000
1974	66,000,000	5,000,000	76,223,000	11,505,000
1975	180,000,000	121,092,000	307,492,000	20,000,000
1976	175,840,000	134,953,000	316,986,000	² 24,750,000
TQ ³	43,960,000	30,480,000	75,988,000	N/A
1977	175,516,000	355,597,000	537,799,000	17,500,000
1978	306,070,000	490,166,000	805,000,000	45,000,000
1979	369,790,000	359,988,000	737,025,000	60,000,000
1980	300,000,000	201,801,000	509,194,000	⁴ 55,000,000
1981	173,745,000	107,282,000	288,593,000	⁵ 26,000,000
1982	0	167,386,000	179,927,000	25,440,000
1983	110,619,000	212,593,000	335,093,000	⁶ 51,000,000
1984	72,919,000	213,113,000	295,913,000	27,500,000
1985	71,853,000	206,245,000	286,612,000	25,480,000
1986	45,992,900	116,883,000	169,201,900	23,729,330
1987	32,700,000	153,126,000	193,096,000	24,250,000
1988	16,567,000	144,040,000	170,464,000	⁷ 27,250,000
1989	16,700,000	179,992,000	206,233,000	⁸ 30,500,000
1990	16,700,000	232,599,000	249,299,000	⁹ 32,887,504
1991	29,843,000	311,832,207	341,675,207	¹⁰ 34,484,000
1992	19,748,000	298,192,000	321,400,000	¹¹ 35,478,000
1993	<u>24,787,000</u>	<u>255,437,000</u>	<u>283,651,000</u>	<u>¹²36,617,000</u>
Total	3,189,421,956	5,000,780,207	8,371,556,107	655,204,834

¹ LWCF total appropriations include funds for Federal administration costs for Federal land acquisition and State and Federal agency Grants.

² Fifteen-month year when the end of the Federal FY was changed to September 30 from June 30.

³ Transition quarter, July 1, 1976, to September 30, 1976, because of adoption of new FY calendar.

⁴ Includes \$10 million deferred from fiscal year 1980 to fiscal year 1981.

⁵ Beginning with 1981, total appropriation includes funds for NHPF program administration costs.

⁶ Included \$25 million appropriated by the Emergency Jobs Act (P.L. 98–8).

⁷ The FY 1988 appropriation included \$1 million for the Bicentennial Lighthouse Program.

⁸ The FY 1989 appropriation included \$1 million for the Bicentennial Lighthouse Program.

⁹ The FY 1990 appropriation included \$1 million for the Bicentennial Lighthouse Program, \$473,000 for grants to Native American tribes, and \$600,000 for disaster relief.

¹⁰ The FY 1991 appropriation included \$721,000 for grants to Native American tribes.

¹¹ The FY 1992 appropriation included \$938,000 for grants to Native American tribes.

¹² The FY 1993 appropriation included \$1,487,000 for grants to Native American tribes.

NOTE: The total awarded to date for the National Trust for Historic Preservation is \$93,463,713.

SOURCE: National Park Service, Recreation Grants Division and Preservation Assistance Division.

Table 73. Apportionments to States and U.S. Territories and Possessions from the Land and Water Conservation Fund and the National Historic Preservation Fund, Fiscal Year 1993

State	Apportionment	
	Land and Water Conservation Fund (\$)	National Historic Preservation Fund (\$)
Alabama	420,633	549,483
Alaska	219,895	388,761
American Samoa	25,000	162,652
Arizona	386,029	500,647
Arkansas	300,493	448,315
California	1,885,468	855,122
Colorado	398,497	555,629
Connecticut	409,856	564,700
Delaware	231,598	399,419
District of Columbia	67,471	301,103
Federated States of Micronesia	N/A	238,161
Florida	1,043,859	634,038
Georgia	552,982	717,172
Guam	25,000	182,096
Hawaii	260,372	288,174
Idaho	232,705	458,721
Illinois	902,571	579,517
Indiana	507,138	544,291
Iowa	323,836	490,100
Kansas	319,472	290,270
Kentucky	369,882	737,152
Louisiana	433,718	677,314
Maine	247,684	419,962
Maryland	510,727	723,982
Massachusetts	583,146	722,477
Michigan	760,307	655,957
Minnesota	439,933	567,756
Mississippi	300,299	435,297
Missouri	477,891	699,010
Montana	225,417	452,940
Nebraska	270,903	354,142
Nevada	271,009	282,238
New Hampshire	251,051	346,691
New Jersey	724,834	557,995
New Mexico	268,298	651,802
New York	1,365,492	883,708
North Carolina	538,358	668,136
North Dakota	223,008	299,445
Northern Marianas	25,000	161,522

Table 73. Apportionments to States and U.S. Territories and Possessions from the Land and Water Conservation Fund and the National Historic Preservation Fund, Fiscal Year 1993 — *continued*

<i>State</i>	<i>Apportionment</i>	
	<i>Land and Water Conservation Fund (\$)</i>	<i>National Historic Preservation Fund (\$)</i>
Ohio	850,191	759,889
Oklahoma	360,409	521,256
Oregon	356,113	487,574
Pennsylvania	939,457	838,950
Puerto Rico	358,118	286,646
Republic of the Marshalls	N/A	123,057
Republic of Palau	N/A	123,057
Rhode Island	260,193	506,750
South Carolina	381,188	550,771
South Dakota	222,921	442,059
Tennessee	468,486	594,285
Texas	1,245,507	728,226
Utah	298,529	549,541
Vermont	216,063	388,860
Virginia	553,900	617,872
Virgin Islands	25,000	255,582
Washington	497,057	466,970
West Virginia	272,484	391,555
Wisconsin	468,481	552,512
Wyoming	<u>213,071</u>	<u>456,701</u>
Total	24,448,529	28,986,000

SOURCE: National Park Service, Recreation Grants Division and Preservation Assistance Division

VIII. *Reserves and Resource Estimates of Offshore Oil and Natural Gas*

Offshore oil and natural gas reserves are shown in tables 75, 76, and 77. The tables show annual MMS estimates of oil and natural gas reserves that remained in producing or active fields between 1975 and 1992. Oil includes crude oil and condensate; gas includes associated and non-associated natural gas.

The definition for reserve estimation changed in 1988 from American Petroleum Institute (API) **demonstrated reserves** to Society of Petroleum Engineers (SPE) **proved reserves**. Consequently, annual reserve estimates from 1975 to 1987 are API demonstrated reserves. Annual reserve estimates from 1988 through 1992 are SPE proved reserves.

Oil reserves are given in Bbbl at 60°F and 1 atm and natural gas reserves are given in Tcf at 60°F. Table 68 reports natural gas reserves for the GOM using a pressure base of 15.025 psi while table 69 reports PAC reserves using a pressure base of 14.73 psi. The MMS has adopted these pressures on the basis of standard industry practices for the respective regions. The total gas reserves in table 75 include an adjustment of GOM OCS natural gas reserves to 14.73 psi (standard atmospheric pressure). The adjustment was done by multiplying the reported GOM OCS natural gas reserves by 1.02, which is the ratio of the GOM to PAC pressure base.

To arrive at a combined oil and natural gas reserve figure, natural gas numbers were converted to **barrels of oil equivalent (BOE)**. Given a figure for BOE of natural gas, adding this number to the estimated reserves of oil in barrels results in total BOE for each OCS region.

For detailed information on reserve estimates and methodology, refer to the following reports:

- *Estimated Oil and Gas Reserves, Gulf of Mexico, December 31, 1991* (MMS 92-0037)
- *Estimated Oil and Gas Reserves, Pacific Outer Continental Shelf, as of December 31, 1991* (MMS 92-0073)

In 1987, the U.S. Geological Survey and the MMS completed an assessment of the undiscovered conventional resources of crude oil and natural gas in the United States. National Resource Assessment (NRA) results for all 26 Federal offshore planning areas are shown in table 74. The MMS updated portions of that assessment in January 1990. Rankings are according to risked mean BOE resource estimates of the undiscovered, economically recoverable hydrocarbon resources. The estimates include both leased and unleased submerged lands of the OCS. The table also includes each planning area's conditional mean estimates for oil and gas.

The NRA made an inventory of those conventional resources considered recoverable under current technology, and those for which development and production are economical under specified price and cost relationships, excluding exploration costs. The NRA did not include resources from the following:

- Tar deposits;
- Intractable heavy oil deposits;
- Oil shales;
- Gas in low-permeability (<0.1 millidarcy in situ) tight reservoirs;
- Coal bed methane;
- Gas in geopressed shales and brines; and
- Natural gas hydrates (clathrates).
- Any other unconventional resource

Using an exploration simulation model called PRESTO, the MMS calculated resource estimates for the OCS. The mean estimate is the average estimate of a distribution of possible values. The conditional mean estimate refers to the average estimate of oil or gas given the condition that economically recoverable hydrocarbons are present in the assessment area. Each planning area has a **marginal probability of hydrocarbons** (MP_{HC}) associated with its corresponding range of estimates.

In table 71, risked mean estimates are used as the basis for ranking the planning area whose MP_{HC} 's are different. An area's risked mean BOE estimate comes from dividing the area's conditional mean gas estimate by 5,620, and adding the result to the area's conditional mean oil estimate. The conditional mean BOE is then multiplied by the MP_{HC} for the area. Therefore, risked mean resource estimates include the possibility that an area is devoid of commercially recoverable hydrocarbons.

Complete explanations of the modeling methodology and the data used are in the MMS reports *Estimates of Undiscovered Oil and Gas Resources for the Outer Continental Shelf as of January 1987* (MMS 89-0090) and *Estimates of Undiscovered, Economically Recoverable Oil and Gas Resources for the Outer Continental Shelf Revised as of January 1990* (MMS 91-0051). Another NRA is underway, with a completion date at the end of 1994. Results are expected to be published in 1995.

Table 74. Conditional and Risked Mean Estimates of Undiscovered, Economically Recoverable Resources for Federal Offshore Planning Areas, January 1, 1990

[Oil and oil equivalents are expressed in billions of barrels; gas in trillion cubic feet]

Rank	OCS Planning Area	Marginal Probability of Hydrocarbons (MP _{hd})	Conditional Mean		Risked Mean Estimates BOE
			Oil	Gas ¹	
1	Central Gulf of Mexico	1.00	3.82	37.66	10.52
2	Western Gulf of Mexico	1.00	1.58	25.40	6.10
3	Southern California	1.00	1.31	3.01	1.84
4	Chukchi Sea	0.23	5.96	0.00	1.36
5	Eastern Gulf of Mexico	1.00	0.95	1.68	1.25
6	Northern California	0.78	0.89	2.45	1.03
7	Central California	0.90	0.50	0.82	0.58
8	Mid-Atlantic	0.44	0.22	5.35	0.52
9	Beaufort Sea	0.23	1.66	0.00	0.38
10	South Atlantic	0.23	0.21	4.60	0.24
11	North Atlantic	0.39	0.11	2.54	0.22
12	Washington-Oregon	0.25	0.19	1.97	0.14
13	Straits of Florida	0.19	0.34	0.57	0.08
14	Navarin Basin	0.03	1.14	0.00	0.03
15	Gulf of Alaska	0.04	0.98	0.00	0.04
16	St. George Basin	0.02	0.39	0.00	0.01
17	N. Aleutian Basin	0.02	0.61	0.00	0.01
18	Kodiak	0.03	0.43	0.00	0.01
19	Norton Basin	< 0.01	0.58	0.00	< 0.01
20	Cook Inlet	< 0.01	0.17	0.00	< 0.01
21	Hope Basin	< 0.01	0.50	0.00	< 0.01
22	Shumagin	0.01	0.28	0.00	< 0.01
23	Aleutian Arc	<0.01	<0.01	0.00	< 0.01
24	Aleutian Basin	<0.01	<0.01	0.00	< 0.01
25	Bowers Basin	<0.01	<0.01	0.00	< 0.01
26	St. Matthew-Hall	<0.01	<0.01	0.00	< 0.01

¹ Natural gas in Alaska was noneconomic.

Table 75. Proved Oil and Gas Reserves and Cumulative Production for the United States Federal OCS, 1975-92

[Oil and oil equivalents are expressed in billions of barrels; gas in trillion cubic feet]

Year	No. of OCS Fields Included in Reserve Estimation	Original Recoverable Reserves		Cumulative Production		Remaining Recoverable Reserves		
		Oil	Gas	Oil	Gas	Oil	Gas	BOE
1975	255	6.61	61.1	3.82	27.7	2.79	33.4	8.73
1976	308	7.11	66.9	4.28	31.5	2.84	35.4	9.14
1977	338	7.74	71.5	4.64	35.8	3.10	35.7	9.46
1978	389	8.12	78.6	4.94	39.9	3.18	38.8	10.08
1979	421	8.31	84.8	5.02	45.2	3.29	39.6	10.33
1980	441	8.80	91.6	5.19	49.8	3.60	41.9	11.05
1981	468	9.01	96.4	5.49	54.8	3.52	41.6	10.92
1982	491	9.38	101.2	5.83	59.6	3.55	41.6	10.95
1983	528	10.12	109.5	6.18	63.9	3.94	45.6	12.06
1984	558	10.74	115.1	6.55	68.6	4.19	46.4	12.45
1985	586	11.80	120.7	6.92	72.8	4.92	48.0	13.44
1986	657	12.14	125.4	7.30	77.0	4.84	48.4	13.45
1987	717	12.09	126.6	7.66	81.7	4.52	44.1	12.51
² 1988	691	12.37	131.2	7.99	86.4	4.38	44.8	12.35
1989	752	12.29	133.7	8.30	91.2	3.98	42.5	11.55
1990	795	12.06	134.5	8.60	96.2	3.45	39.3	10.27
1991	823	12.16	135.2	8.94	101.1	3.22	33.5	9.18
1992	848	12.50	134.8	9.28	103.8	3.22	30.9	8.73

¹ No reserve estimates were available for the Pacific OCS.

² Basis of reserves changed from API demonstrated to SPE proved.

Table 76. Proved Oil and Gas Reserves and Cumulative Production for the Gulf of Mexico OCS Region Federal Outer Continental Shelf and Slope, 1975-92

[Oil and oil equivalents are expressed in billions of barrels; gas in trillion cubic feet]

Year	No. of OCS Fields Included In Reserve Estimation	Original Recoverable Reserves		Cumulative Production		Remaining Recoverable Reserves		
		Oil	Gas	Oil	Gas	Oil	Gas	BOE
1975	255	6.61	59.9	3.82	27.2	2.79	32.7	8.61
1976	306	6.86	65.5	4.12	30.8	2.74	34.7	8.91
1977	334	7.18	69.2	4.47	35.0	2.71	34.2	8.80
1978	385	7.52	76.2	4.76	39.0	2.76	37.2	9.38
1979	417	7.71	82.2	4.83	44.2	2.88	38	9.64
1980	435	8.04	88.9	4.99	48.7	3.05	40.2	10.20
1981	461	8.17	93.4	5.27	53.6	2.90	39.8	9.98
1982	484	8.56	98.1	5.58	58.3	2.98	39.8	10.06
1983	521	9.31	106.2	5.90	62.5	3.41	43.7	11.19
1984	551	9.91	111.6	6.24	67.1	3.67	44.5	11.59
1985	575	10.63	116.7	6.58	71.1	4.05	45.6	12.16
1986	645	10.81	121.0	6.93	75.2	3.88	45.8	12.03
1987	704	10.76	122.1	7.26	79.7	3.50	42.4	11.04
1988	678	10.95	126.7	7.56	84.3	3.39	42.4	10.93
1989	739	10.87	129.1	7.84	88.9	3.03	40.2	10.18
1990	782	10.64	129.9	8.11	93.8	2.53	36.1	8.95
1991	819	10.74	130.5	8.41	98.5	2.33	32.0	8.02
1992	835	11.08	132.7	8.71	103.2	2.37	29.5	7.62

¹ Basis of reserves changed from API demonstrated to SPE proved.

**Table 77. Proved Oil and Gas Reserves and Cumulative Production for the Pacific OCS Region
Federal Outer Continental Shelf and Slope, 1975-92**

(Oil and oil equivalents are expressed in billions of barrels; gas in trillion cubic feet)

Year	No. of OCS Fields Included in Reserve Estimation	Original Recoverable Reserves		Cumulative Production		Remaining Recoverable Reserves		
		Oil	Gas	Oil	Gas	Oil	Gas	BOE
¹ 1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1976	2	0.25	0.11	0.16	0.08	0.10	0.03	0.10
1977	4	0.57	0.94	0.17	0.08	0.40	0.86	0.55
1978	4	0.60	0.92	0.18	0.09	0.42	0.83	0.57
1979	4	0.60	0.92	0.19	0.10	0.41	0.82	0.55
1980	6	0.76	0.96	0.20	0.10	0.55	0.86	0.71
1981	7	0.84	1.13	0.22	0.11	0.62	1.02	0.80
1982	7	0.82	1.15	0.25	0.13	0.57	1.02	0.75
1983	7	0.81	1.20	0.28	0.16	0.53	1.05	0.72
1984	7	0.83	1.22	0.31	0.20	0.52	1.02	0.70
1985	11	1.17	1.70	0.34	0.27	0.87	1.43	1.12
1986	12	1.33	2.00	0.37	0.32	0.96	1.68	1.26
1987	13	1.42	2.03	0.40	0.38	1.02	1.65	1.31
² 1988	13	1.42	2.00	0.43	0.43	0.99	1.57	1.27
1989	13	1.42	1.99	0.46	0.48	0.95	1.51	1.22
1990	13	1.42	2.01	0.49	0.53	0.92	1.48	1.19
1991	13	1.42	2.08	0.53	0.58	0.89	1.50	1.16
1992	13	1.42	2.08	0.57	0.64	0.85	1.44	1.11

¹ No reserve estimates were available.

² The basis of reserve estimation changed from API demonstrated to SPE proved.

IX. Oil Pollution in U.S. and International Waters

Table 78 lists pollution spills on the OCS that are greater than 1 bbl. In 1992, there were 25 spills on the OCS from facilities or operational activity on Federal leases. These incidents resulted in the release of 2,804 bbl of pollutant (i.e., crude oil, condensate, refined product, mineral oil, diesel, or natural gas) into offshore waters. One of those 25 spills released a total of 2,000 bbl (see table 79).

Table 80 lists the number of blowouts from offshore wells. In 1992, there were three blowouts during exploratory drilling in the GOM; there were none from production or development wells. One of these blowouts released 100 bbl of oil. Over the last 21 years, out of the 21,715 wells spudded on the OCS there have been a total of 146 blowouts, less than 0.7 percent of the total. Between 1971 and 1992 the total spillage from OCS operations amounted to 200,418 bbl of pollutants. This spillage is less than .002 percent of the oil produced from OCS facilities.

Table 81 reports on the number of crude oil and refined petroleum product spills of 1,000 bbl or more from tankers in coastal and offshore waters worldwide since 1974. In 1992, there were 14 such tanker spills, which released 1,023,439 bbl of oil. Two of these spills, which released 5,760 bbl, occurred in U.S. coastal and offshore waters (see table 82).

The information on spill incidents from OCS facilities comes from the MMS OCS Events database file, maintained by MMS headquarters and each regional office. Information on tanker spills comes from MMS's Technical Analysis Group (TAG) in the Environmental Policy and Programs Division. All the spills in the TAG database must be from a vessel — usually a tanker or barge — that carried a petroleum product as cargo. The spill may be cargo or fuel from the carrier and must be at least 1,000 bbl in size.

An MMS contract established the worldwide tanker spill database in 1983. Since 1983, TAG has maintained and verified the database in-house. The TAG adds U.S. Coast Guard data annually. Additional information comes from the Institut Français du Pétrole tanker database for the years 1974–87 and the *Oil Spill Bulletin* for events between 1986 and 1987. Current information usually comes from the *Oil Spill Intelligence Report* (OSIR), *Golob's Oil Pollution Bulletin*, newspaper accounts, and various reports concerning oil spill events.

The most recent updates to the database include OSIR's *1992 International Spill Statistic Summary* (March 1992); Tanker Advisory Center Report *1993 Guide to the Selection of Tankers*; and *Oil Spill Case Histories: 1967–1991* prepared for the NOAA/Hazardous Materials Response and Assessment Division.

Table 78. Number and Volume of Spills of More than 1 Barrel of All Pollutants from Facilities and Operations on Federal OCS Leases, 1970-92

Year	Gulf of Mexico OCS			Pacific OCS			Total OCS Spillage (bbl)
	No. of Spills		Total Spillage (bbl)	No. of Spills		Total Spillage (bbl)	
	>1 and ≤50 (bbl)	> 50 (bbl)		>1 and ≤50 (bbl)	> 50 (bbl)		
1970	8	5	83,894	0	0	0	83,894
1971	267	7	2,441	0	0	0	2,441
1972	204	1	999	0	0	0	999
1973	178	5	23,125	0	0	0	23,125
1974	80	7	24,453	0	0	0	24,453
1975	109	2	761	0	0	0	761
1976	66	3	5,021	1	0	2	5,023
1977	70	3	1,080	1	0	4	1,084
1978	77	3	1,524	0	0	0	1,524
1979	106	4	2,627	1	0	2	2,629
1980	49	8	2,826	2	0	7	2,833
1981	51	5	5,794	10	0	75	5,869
1982	71	3	1,137	1	0	3	¹ 1,159
1983	91	9	2,552	3	0	5	² 2,581
1984	58	1	378	3	0	36	³ 416
1985	71	6	1,666	3	0	9	⁴ 1,677
1986	45	3	572	3	0	12	584
1987	35	1	231	2	0	11	242
1988	30	3	15,971	1	0	2	⁵ 15,798
1989	24	1	476	3	0	8	484
1990	35	3	19,307	0	1	100	19,407
1991	33	1	570	3	0	61	631
1992	<u>23</u>	<u>2</u>	<u>2,804</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2,804</u>
Total	1,786	86	200,029	37	1	337	200,418

¹ This total includes 1 spill of 19 barrels on the Alaska OCS.

² This total includes 2 spills totaling 24 barrels on the Atlantic OCS.

³ This total includes 1 spill of 2 barrels on the Alaska OCS.

⁴ This total includes 1 spill of 2 barrels on the Alaska OCS.

⁵ This total includes 1 spill of 5 barrels on the Alaska OCS.

Table 79. Spills of 1,000 Barrels or More from Facilities and Operations on Federal OCS Leases, 1964-92

[The 25 spills reported here are from oil and gas activities on the Gulf of Mexico OCS, except for the 1969 blowout in the Santa Barbara Channel on the Pacific OCS.]

Year	Location	Cause of Accident	Spillage (bbl)
1964	Eugene Island	Freighter struck platform	2,559
	Eugene Island	Platform in hurricane	5,180
	Ship Shoal	Platform in hurricane	5,100
	Ship Shoal	Platform in hurricane	1,589
1965	Ship Shoal	Well blowout	1,688
1967	West Delta	Anchor damage to pipeline	160,638
1968	South Timbalier	Anchor damage to pipeline	6,000
1969	Santa Barbara Channel	Well blowout	80,000
	Main Pass	Anchor damage to pipeline	7,532
	Ship Shoal	Ship struck platform during storm	2,500
1970	Main Pass	Well blowout	30,000
	South Timbalier	Well blowout	53,000
1973	West Delta	Structural failure, tank rupture	9,935
	South Pelto	Storage barge sank	7,000
	West Delta	Pipeline corrosion	5,000
1974	Eugene Island	Anchor damage to pipeline	19,833
	Main Pass	Hurricane damage to pipeline	3,500
1976	Eugene Island	Shrimp trawl damage to pipeline	4,000
1979	Main Pass	Vessel collided with semisubmersible	1,500
1980	High Island	Pump failure, tank spill	1,456
1981	South Pass	Anchor damage to pipeline	5,100
1988	Galveston	Anchor damage to pipeline	15,576
1990	Ship Shoal	Anchor damage to pipeline	14,423
	Eugene Island	Trawl damage to pipeline valve	4,569
1992	South Pelto	Hurricane damage to pipeline	<u>2,000</u>
	Total		449,678

Table 80. Blowouts and Spillage from Federal Offshore Wells Compared to Crude Oil and Condensate Production on Federal OCS Leases, 1971-92

[Only crude oil and condensate blowout spillage is given here in barrels for the 146 blowouts that occurred during the past 21 years]

Year	Well Starts	Drilling Blowouts				Nondrilling Blowouts						Total Blowouts		OCS Production MMbbl
		Exploration		Development		Production		Workover		Completion				
		No.	bbl	No.	bbl	No.	bbl	No.	bbl	No.	bbl	No.	bbl	
1971	851	1	0	1	0	2	450	1	0	0	0	5	450	407.0
1972	845	2	0	2	0	1	0	0	0	0	0	5	0	395.9
1973	820	2	0	1	0	0	0	0	0	0	0	3	0	384.8
1974	802	1	0	1	0	4	275	0	0	0	0	6	275	354.9
1975	842	4	0	1	0	0	0	1	0	1	0	7	0	325.3
1976	1,078	1	0	4	0	1	0	0	0	0	0	6	0	314.5
1977	1,240	3	0	1	0	1	0	3	0	1	0	9	0	295.9
1978	1,164	3	0	4	0	0	0	3	0	1	0	11	0	287.9
1979	1,140	4	0	1	0	0	0	0	0	0	0	5	0	274.2
1980	1,158	3	0	1	0	2	1	1	0	1	0	8	1	274.7
1981	1,208	1	0	2	0	1	0	3	64	3	0	10	64	282.9
1982	1,255	1	0	4	0	0	0	4	0	0	0	9	0	314.5
1983	1,180	5	0	5	0	0	0	2	0	0	0	12	0	350.8
1984	1,352	3	0	1	0	0	0	1	0	0	0	5	0	385.1
1985	1,169	3	0	1	0	0	0	2	40	0	0	6	40	380.0
1986	694	0	0	1	0	0	0	1	0	0	0	2	0	384.3
1987	845	2	0	0	0	3	0	1	0	2	60	8	60	358.8
1988	950	1	0	1	0	0	0	1	0	0	0	3	0	332.7
1989	947	2	0	15	0	23	0	1	0	0	0	11	0	313.7
1990	1,018	1	0	1	0	0	0	3	9	1	0	6	9	304.5
1991	726	3	0	33	0	0	0	0	0	0	0	6	0	326.4
1992	431	3	100	0	0	0	0	0	0	0	0	3	100	337.9
Total	21,715	49	100	41	0	18	726	28	113	10	60	146	999	7,387.0

¹ Two of the drilling blowouts occurred while drilling for sulphur.

² One blowout occurred during abandonment operations.

³ Two of the drilling blowouts occurred while drilling for sulphur.

Table 81. Spills of 1,000 Barrels or More from Tankers in Coastal and Offshore Waters Worldwide, 1974-92

<i>Year</i>	<i>Crude Oil</i>		<i>Refined Product</i>		<i>All Product</i>	
	<i>No. of Spills</i>	<i>Spillage (bbl)</i>	<i>No. of Spills</i>	<i>Spillage (bbl)</i>	<i>No. of Spills</i>	<i>Spillage (bbl)</i>
1974	19	809,911	26	717,356	45	1,527,267
1975	19	1,521,181	22	521,202	41	2,042,383
1976	18	1,980,715	23	981,759	41	2,962,474
1977	15	1,884,014	24	815,332	39	2,699,346
1978	17	3,095,689	23	469,029	40	3,564,718
1979	21	3,813,214	39	948,598	60	4,761,812
1980	11	1,256,861	24	341,247	35	1,598,108
1981	7	43,350	20	412,280	27	455,630
1982	6	230,556	14	89,743	20	320,299
1983	13	2,587,918	16	335,165	29	2,923,083
1984	6	189,585	21	135,915	27	325,500
1985	5	538,678	22	173,974	27	712,652
1986	6	63,085	9	121,844	15	184,929
1987	11	109,698	9	129,593	20	239,291
1988	7	1,102,059	4	227,143	11	1,329,202
1989	12	1,219,945	20	126,962	32	1,346,907
1990	8	217,386	9	165,488	17	382,874
1991	6	641,036	4	10,882	10	651,918
1992	<u>6</u>	<u>623,615</u>	<u>8</u>	<u>399,824</u>	<u>14</u>	<u>1,023,439</u>
Total	213	21,928,496	337	7,123,336	550	29,051,832

Table 82. Spills of 1,000 bbl or More from Tankers in U.S. Coastal and Offshore Waters, 1974-92

[Spills reported here exclude those that occurred off U.S. Territories and Possessions]

Year	Crude Oil		Refined Product		All Products	
	No. of Spills	Spillage (bbl)	No. of Spills	Spillage (bbl)	No. of Spills	Spillage (bbl)
1974	2	57,328	3	10,358	5	67,686
1975	4	50,705	4	149,701	8	200,406
1976	2	8,600	6	380,740	8	389,340
1977	2	16,686	2	15,715	4	32,401
1978	0	0	4	14,447	4	14,447
1979	3	253,437	5	30,045	8	283,482
1980	2	34,000	4	29,952	6	63,952
1981	2	28,571	2	3,476	4	32,047
1982	0	0	2	2,466	2	2,466
1983	1	1,200	2	2,786	3	3,986
1984	1	60,452	9	71,621	10	138,073
1985	2	16,047	3	8,320	5	24,367
1986	3	9,990	2	14,422	5	24,412
1987	3	31,310	0	0	3	31,310
1988	1	15,350	2	24,000	3	39,350
1989	2	242,200	3	19,834	5	262,034
1990	2	102,315	2	7,333	4	109,648
1991	0	0	0	0	0	0
1992	<u>1</u>	<u>2,310</u>	<u>1</u>	<u>3,450</u>	<u>2</u>	<u>5,760</u>
Total	33	936,501	56	788,666	89	1,725,167

X. International Activities and Marine Minerals

The Office of International Activities and Marine Minerals (INTERMAR) encourages environmentally sound exploration and development of hard mineral deposits on the EEZ. Table 83 shows the Nation's net import reliance for selected nonfuel minerals. INTERMAR's activities and support in 1992 focused on the following areas (see fig. 11):

- **New England States (sand and gravel)** — The final report for Phase I, "Construction Aggregate Demand in the New England States," was completed in January. Work on Phase II, an onshore aggregate supply-side study, will be completed in mid-1993. The final phase will use both studies to draw conclusions on the regional construction aggregate outlook and forecast whether offshore supply sources will be needed to meet future demand.
- **New Jersey (sand)** — A cooperative agreement was established in August to identify and evaluate Federal sand resources suitable for future coastal restoration needs. Preliminary identification of potential borrow sites based on proximity to eroding beaches in greatest need of restoration was completed.
- **Delaware/Maryland (sand)** — A joint multi-year study of Federal sand resources for coastal restoration needs was established in April. The first phase began in July with the acquisition of high-resolution seismic data. Vibracores were obtained in November for selected sites identified in the analysis of the seismic profiles.
- **Virginia (sand)** — A cooperative agreement to conduct "Environmental Investigations of Isolated Sand Shoals on the Inner Shelf of Virginia Relative to the Potential for Aggregate Mining" began in March. The initial focus of the project is on the potential of Sandbridge Shoal as a beach restoration supply source for the Virginia Beach and Sandbridge areas.
- **North Carolina (sand)** — The North Carolina Sand Task Force continued its efforts to identify and evaluate Federal sand resources for coastal erosion needs along the Outer Banks. A 200 square nautical mile area extending from Oregon Inlet to Jockey's Ridge was the primary target area.
- **South Carolina (sand)** — In September, a technical working group was established to evaluate sand, other minerals and hard bottom resources. The initial focus was to compile and evaluate existing data relevant to beach restoration. Three general data classifications were identified: geological resources, critical habitat for biological resources, and historical trends for erosion and accretion.
- **Georgia (heavy mineral placers and phosphorites)** — A contract for an environmental literature review of previous research relevant to extracting heavy mineral placers and phosphorites offshore Georgia was awarded in May. Battelle Ocean Sciences and the Skidaway Institute of Oceanography are conducting the 15-month study.

- **Alabama (sand)** — Work related to identifying and evaluating Federal sand resources for coastal restoration and wetlands protection needs led to several findings: the highest priority area for restoration is Dauphin Island, five offshore sites were determined to be suitable for borrow material, and preliminary environmental analyses indicate little long-term impacts on benthic biota from dredging, assuming live-bottoms are avoided.
- **Louisiana/Mississippi (sand and shell)** — Additional field work and analyses of Ship Shoal, offshore Louisiana, were undertaken to identify potential site-specific borrow areas for restoration of the Isles Dernieres barrier island system. Study results were also presented at three meetings to assess local interest and concerns. The findings were received very positively and further pursuit of the effort was encouraged. A September reconnaissance cruise to assess the potential for shell resources offshore both States had to be rescheduled due to equipment problems and bad weather.
- **Texas (sand)** — A feasibility study on the potential use of Heald and Sabine Banks for beach and barrier island restoration needs continued. Following the evaluation of existing data, additional seismic lines were obtained in July. In September, vibracores were collected on Sabine Bank but weather precluded sampling Heald Bank. Findings to date indicate the presence of beach-quality sand and little to no overburden.
- **Hawaii (cobalt-rich manganese crusts)** — Cruise planning continued for an environmental study to gather data on the benthic current regime and habitat composition of potential mine sites in the Johnston Island area. Following a triennial review of the Hawaii/Interior Joint Planning Arrangement by the task force's Cooperative Steering Committee, renewal by the Governor and Secretary was approved in November with no change in language.

Table 83. Estimated 1992 Net Import Reliance¹ of Selected Nonfuel Mineral Materials as a Percent of Apparent Consumption²

<i>Mineral</i>	<i>Percent of Consumption</i>	<i>Major Sources, 1987-92</i>
Arsenic	100	France, Chile, Mexico
Bauxite and Alumina	100	Australia, Guinea, Jamaica, Brazil
Cesium (pollucite)	100	Canada
Columbium (niobium)	100	Brazil, Canada, Germany
Graphite	100	Mexico, China, Brazil, Madagascar
Manganese	100	South Africa, Gabon, France
Mica (sheet)	100	India, Belgium, Brazil, Japan
Rubidium	100	Canada
Strontium (celestite)	100	Mexico, Germany, Spain
Thallium	100	Belgium, Japan, United Kingdom, Germany
Gem Stones (natural & synthetic) . . .	98	Belgium, Israel, India, United Kingdom
Asbestos	95	Canada, South Africa
Diamond (industrial stones)	92	Ireland, United Kingdom, South Africa, Zaire
Tantalum	87	Germany, Thailand, Australia
Fluorspar	87	Mexico, South Africa, China, Canada
Tungsten	85	China, Bolivia, Germany, Peru
Cobalt	76	Zaire, Zambia, Canada, Norway
Chromium	74	South Africa, Turkey, Zimbabwe, Yugoslavia
Tin	73	Brazil, Bolivia, China, Indonesia, Malaysia
Potash	67	Canada, Israel, CIS, Germany
Nickel	64	Canada, Norway, Australia, Dominican Republic
Iodine	52	Japan, Chile
Peat	50	Canada, Norway, Austria, Ireland
Cadmium	49	Canada, Mexico, Australia, Germany
Selenium	47	Canada, United Kingdom, Japan, Belgium-Luxembourg
Barite	44	China, India, Mexico, Morocco
Silicon	36	Brazil, Canada, Venezuela, Norway
Gypsum	35	Canada, Mexico, Spain
Zinc	34	Canada, Mexico, Peru, Spain
Pumice & Pumicite	32	Greece, Mexico, Ecuador
Magnesium Compounds	23	China, Canada, Greece, Mexico
Cement	17	Mexico, Canada, Japan, Spain
Nitrogen	15	Canada, CIS, Trinidad & Tobago, Mexico
Vermiculite	14	South Africa, China, Brazil

Footnotes at end of table

Table 83. Estimated 1992 Net Import Reliance¹ of Selected Nonfuel Mineral Materials as a Percent of Apparent Consumption² — *continued*

<i>Mineral</i>	<i>Percent of Consumption</i>	<i>Major Sources, 1987-92</i>
Mica (scrap & flake)	14	Canada, India
Salt	13	Canada, Mexico, Bahamas, Chile
Iron Ore	12	Canada, Brazil, Venezuela, Mauritania
Iron & Steel	12	European Economic Community, Japan, Canada, South Korea
Sulphur	8	Mexico, Canada
Lead	8	Canada, Mexico, Peru, Belgium-Luxembourg
Quartz Crystal (industrial)	5	Brazil, Namibia
Perlite	3	Greece
Sodium Sulfate	1	Canada, Mexico

¹ Net Import Reliance = (imports - exports) + adjustments for Government and industry stock exchanges.

² Apparent Consumption = U.S. primary + secondary production + net import reliance.

NOTE: For a number of minerals, net import reliance data are withheld or incomplete. However, commodities for which sufficient data are available to indicate a significant degree of import dependency include: bismuth (Belgium, Mexico, Peru, United Kingdom); ilmenite (South Africa, Australia, Canada); mercury (China, Spain, Japan, Algeria); pyrophyllite (wonder stone) (South Africa); rhenium (Chile, Germany, Sweden, United Kingdom); rutile (Australia, South Africa, Sierra Leone); tellurium (United Kingdom, Canada, Japan, Philippines); and vanadium (South Africa, European Economic Community, South America, Mexico).

SOURCE: U.S. Bureau of Mines, Mineral Commodity Summaries 1992.

Figure 11. Potential Location of Hard Minerals on the Federal OCS.

Glossary

Active well — A well in mechanical condition for production or service use (i.e., in active production or service use).

Associated gas — Gas combined with oil. Known also as gas cap gas and solution gas, it provides the drive mechanism needed to force oil to the surface of a well. Associated gas is normally present in an oil reservoir in the early stages of production.

Barrel of Oil Equivalent (BOE) — The amount of energy resource (in this document, natural gas) that is equal to one barrel of oil on an energy basis. The conversion is based on the assumption that one barrel of oil produces the same amount of energy when burned as 5,620 m³ of natural gas.

Bid — An offer for an OCS lease submitted by a potential lessee in the form of a cash bonus dollar amount or other commitments as specified in the final notice of sale.

Block — A numbered area on an OCS leasing map or official protraction diagram (OPD). Blocks are portions of OCS leasing maps and OPD's that are themselves portions of planning areas. Blocks vary in size, but typical ones are 5,000 to 5,760 acres (about 9 mi²). Each block has a specific identifying number, area, and latitude and longitude coordinates that can be pinpointed on a leasing map of OPD.

Blowout — An uncontrolled flow of gas, oil, or other fluids from a well to the atmosphere. A well may blow out when formation pressure exceeds the pressure overburden of a column of drilling fluid.

Bonus — The cash consideration paid to the United States by the successful bidder for a mineral lease. The payment is made in addition to the rent and royalty obligations specified in the lease.

Borehole — The hole in the earth made by the drill; the uncased drill hole from the surface to the bottom of the well.

Casinghead — The top of the casing set in a well; the part of the casing that protrudes above the surface and to which the control valves and flow pipes are attached.

Casinghead gas — Gas produced from an oil well as distinguished from gas from a gas well. The casinghead gas is taken off at the top of the well or at the separator.

Completed well — A well which has been mechanically completed for production or service use. There may be more than one completed zone in the well. (*See Active well*)

Condensate — A natural gas liquid with a low vapor pressure, compared with natural

gasoline and liquified petroleum gas. It is produced from a deep well where the temperature and pressure are high. Gas condenses as it rises up the well bore and reaches the surface as condensate. Similarly, condensate separates out naturally in pipelines or in a separation plant, by the normal process of condensation.

Demonstrated reserves (American Petroleum Institute) — A collective term for the sum of proved and indicated reserves. Proved reserves are estimated with reasonable certainty to be recovered under current economic conditions. Indicated reserves are economic reserves in known productive reservoirs in existing fields expected to respond to improved recovery techniques where (1) an improved technique has been installed but its effect cannot yet be fully evaluated, or (2) an improved technique has not been installed but knowledge of reservoir characteristics and the results of a known technique installed in a similar situation are available for use in the estimating procedure.

Development — Activities following exploration including the installation of facilities and the drilling and completion of wells for production purposes.

Dry gas — Natural gas from the well that is free of liquid hydrocarbons; gas that has been treated to remove all liquids; pipeline gas.

Economically Recoverable Resource Estimate — An assessment of hydrocarbon potential that takes into account (1) physical and technological constraints on production and (2) the influence of exploration and development costs and market price on industry investment in OCS exploration and production.

Exclusive Economic Zone (EEZ) — An area contiguous to the territorial sea of the United States, the Commonwealth of Puerto Rico, the Commonwealth of Northern Mariana Islands, and the U.S. overseas territories and possessions extending 200 nautical miles from the coastline.

Exploration — The process of searching for minerals preliminary to development. Exploration activities include (1) geophysical surveys, (2) drilling to locate an oil or gas reservoir, and (3) the drilling of additional wells after a discovery to delineate a reservoir. It enables the lessee to determine whether to proceed with development and production.

Field — A geographical area in which one or more oil or gas wells produce. A field may refer to surface area only or to underground productive formation. A single field may include several reservoirs separated either horizontally or vertically.

Gas lost — Avoidably lost natural gas which is flared or vented (i.e., natural gas not retained in the production system for sale or use).

Lease — A legal document executed between a landowner, as lessor, and a company or individual (as lessee) that conveys the right to exploit the premises for minerals or other products for a specified period of time over a given area.

Lease Sale (also called lease offering) — An MMS proceeding by which leases of certain OCS tracts are offered for lease by competitive sealed bidding and during which bids are received, announced, and recorded.

MAFLA — The OCS area in the Gulf of Mexico adjacent to and seaward of the submerged lands and seabeds of Mississippi, Alabama, and Florida.

Marginal probability of hydrocarbons (MP_{HC}) — The probability that oil and gas occur in commercial quantities, using existing recovery technology under current economic conditions.

Minimum royalty — The lowest payment a lessee can pay on an OCS lease after production begins. It is equivalent to the yearly rental, typically \$3 per acre or \$8 per hectare. Rentals are paid annually before a discovery; royalties are paid on production after a discovery. If the total royalty payments amount to less than the yearly rental, the minimum royalty payments make up the difference. (See **Rent** and **Royalty**)

Net Profit Share lease — An OCS lease that provides for payment to the U.S. of a percentage share of the net profits for production of oil and gas from the tract. The percentage share may be fixed in the notice of the lease sale or may be a variable of the bid, depending on the bidding system used for the lease sale.

Non-associated gas — Dry gas that is not associated with oil in a productive reservoir, as opposed to associated gas or solution gas.

Oil lost — Oil that is spilled or burned (i.e., oil not retained in the production system for sale).

Operator — The individual, partnership, firm, or corporation having control or management of operations on a leased area or a portion thereof. The operator may be a lessee, designated agent of the lessee, or holder of rights under an approved operation agreement.

Outer Continental Shelf (OCS) — All submerged lands seaward and outside the area of lands beneath navigable waters. Lands beneath navigable waters are interpreted as extending from the coastline no more than 3 nautical miles into the Atlantic Ocean, the Pacific Ocean, the Arctic Ocean, and the Gulf of Mexico excluding the coastal waters off Texas and western Florida. Lands beneath navigable waters are interpreted as extending from the coastline no more than 3 marine leagues into the Gulf of Mexico off Texas and western Florida.

Planning area — A subdivision of an offshore area used as the initial basis for considering blocks to be offered for lease.

Plugged and abandoned — Wells in which casings have been removed, and the well bore sealed with mechanical or cement plugs.

Producing lease — A lease that is producing oil, gas, or sulphur in quantities sufficient to generate royalties.

Producible lease — A lease where one well or several wells have discovered hydrocarbons in paying quantities, but for which there is no production during the reporting period.

Producible zone completion — The interval in a well bore that has been mechanically prepared to produce oil, gas, or sulphur. There can be more than one zone completed for production in a well bore.

Production — The phase of oil and gas operations involved with well fluids extraction, separation, treatment, storage, measurement, and (sometimes) transportation.

Proven reserves (Society of Petroleum Engineers) — Reserves that can be estimated with reasonable certainty to be recovered under current economic conditions. Current economic conditions include process and costs prevailing at the time of the estimate. Proved reserves must either have facilities that are operational at the time of the estimate to process and transport those reserves to market, or a commitment of reasonable expectation to install such facilities in the future. Proved reserves can be subdivided into undeveloped and developed.

Rent — Periodic payments made by the holder of a lease for the right to use the land or resources for purposes established in the lease.

Royalty — Payment, in money or kind, of a stated share of production from mineral deposits by the lessees or the lessor. Royalty rate may be an established minimum, a sliding-scale, or a step-scale. A step-scale royalty rate increases by steps as the average production on the lease increases. A sliding-scale royalty rate is based on average production and applies to all production from the lease.

Sales value — A mineral's monetary worth at the time of its production.

Service zone completion — The interval in a well bore that has been mechanically prepared for service use, usually water or gas injection to stimulate production from other wells or for water or other waste disposal.

Shut-in payments — Payments made for any producible well on the Federal OCS that is temporarily closed down. (*See Shut-in zone completion*)

Shut-in zone completion — A restorable and producible zone that is temporarily taken out of production because of (1) drilling on platforms, (2) planning for secondary or other injection projects, (3) delay in installation of facilities, (4) well plugging by sand or other mechanical problems, (5) pressure depletion, or (6) having an excessive oil/gas ratio.

Sulphur — A non-metallic element that occurs in association with salt diapirs throughout much of the onshore and offshore Gulf of Mexico region. All offshore sulphur is mined by the Frasch process which uses hot brine to melt sulphur out of the enclosing country rock so the molten sulphur can be recovered.

Suspended well — A well on which operations have been discontinued. The usual context is

an uncompleted well in which operations ceased during drilling but which has not been plugged and abandoned permanently.

Well — A hole drilled or bored into the earth, usually cased with metal pipe, for the production of gas or oil. Also a hole for the injection under pressure of water or gas into a subsurface rock formation.

Workover — Operation on a shut-in or producing well to restore or increase its production.

DATE

FILMED

6 / 16 / 94

END