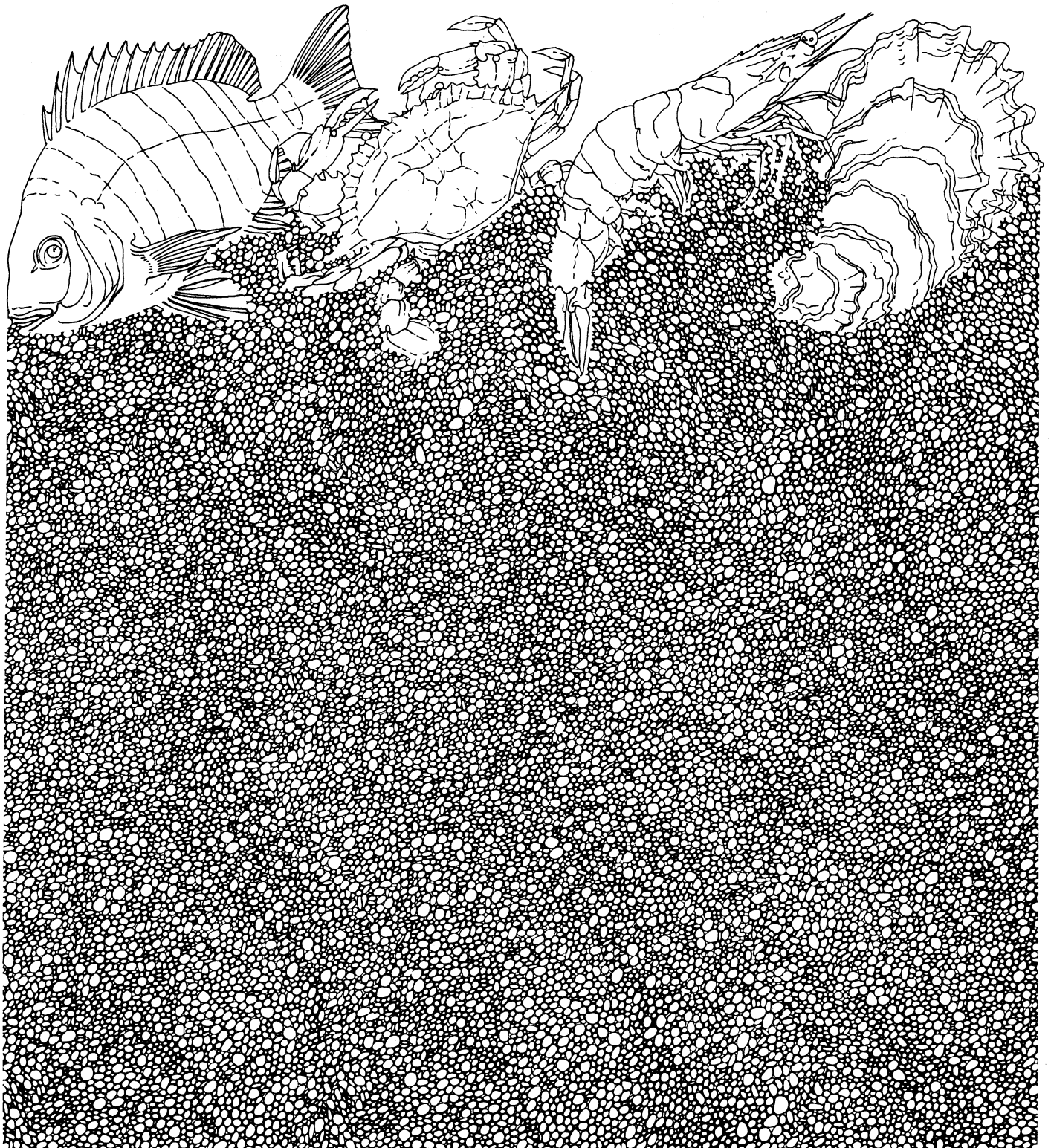


# A Summary of Artificial Reef Construction On The Texas Coast

by A. Crowe and L.W. McEachron

Management Data Series Number 98  
1986

Texas Parks and Wildlife Department  
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## ACKNOWLEDGEMENTS

We would like to thank the Texas Parks and Wildlife Department, Coastal Fisheries Branch personnel who collected data on the bay petroleum platforms. We would like to acknowledge Lynn Benefield, Bob Hofstetter, Hal Osburn, Tom Heffernan, Ed Hegen and C. E. Bryan for reviewing the manuscript. The U. S. Army Corps of Engineers provided information on spoil islands and jetties and the Texas General Land Office provided information on the number of piers and docks.

## ABSTRACT

A total of 68 intentional artificial reef areas amounting to a minimum of 502 ha and consisting of various materials such as oyster shell, tires, cars, construction rubble, barges, pipes, ships and drilling rigs have been constructed in Texas marine waters since 1947. Forty-one oyster shell reefs were built ( $\sim 152$  ha) from 1947 to 1982 and 21 remain ( $\sim 114$  ha). Eight tire reefs were constructed from 1966 to 1977; five remain, but they have partially settled into the sediment. Car reefs placed in the nearshore Gulf lasted 2 to 4 years, while concrete and pipe reefs lasted slightly longer. Fourteen ships and two drilling rigs were sunk in the Gulf from 1975 to 1983; all remain.

A minimum of 2191 unintentional artificial reef areas in the form of open water spoil disposal areas, piers and docks, jetties, oil and gas well shell pads, and offshore petroleum platforms were in place in 1984. There were  $\sim 20,000$  ha of open water spoil disposal sites permitted in coastal waters and 1362 bay piers and docks on record. Fourteen jetties were in place or under construction with a bottom area of 228 ha. Oil companies have placed a minimum of 395 oyster shell pads in the bays, each approximately 0.1 ha. There were 181 offshore petroleum platforms and sub-sea installations located in state territorial waters.

## INTRODUCTION

Artificial reefs are areas in which the sea floor has been extended up into the water column by man. Construction of these reefs in marine waters has gained interest worldwide as fishing pressure increased on limited fishery resources sought by both commercial and sport fishermen. Japan led all nations in reef construction spending \$330 million on artificial reefs during 1976-1982 (Anonymous 1982). International conferences concerning artificial reefs have been held since 1973 because of the increased interest (Colunga and Stone 1974, Aska 1981, Anonymous 1983). Construction of artificial reefs in the United States dates from the late 1940's as Texas and several other states began experimenting with various construction materials (Johnston 1974). Texas began its marine artificial reef program using transplanted oyster shell (Baker 1949; Hofstetter 1961a, 1961b). Old cars (Stevens 1963), construction material such as concrete rubble and clay pipes (Martinez 1963), tires (Benefield and Mercer 1982), and Liberty ships (U.S. Department of Interior 1983) have been used in reef construction.

In addition to the structures placed intentionally in Texas, many structures have been placed that unintentionally benefit the marine environment. There were 118 major (multi-well) petroleum drilling platforms in Texas offshore territorial waters in 1981 (Gallaway and Lewbell 1982). Recent laws require the removal of these structures once they cease production. Interest has grown to change the laws to allow at least some selected structures to remain as artificial-fishing reefs. Unless the laws are changed, it is estimated that between 300-400 offshore platforms in Gulf waters would have to be removed between the mid- to late 1980's and over 3000 would have to be removed by the year 2020 (Gallaway and Lewbell 1982). The National Fishing Enhancement Act of 1984 (Public Law 98-623) promotes and facilitates efforts to establish artificial reefs such as petroleum platforms in coastal waters.

The objectives of this study were to 1) inventory the reef building activities in Texas since 1947 and 2) compare, where possible, the longevity of particular construction materials over time.

## MATERIALS AND METHODS

For the purpose of this paper the term artificial reef includes materials placed both intentionally to attract fish or enhance oyster production (e.g. oyster shell and Liberty ships) and unintentionally as a by product of a commercial activity (e.g. oil wells and spoil islands). During the period 1947 through 1984, information on shell reefs placed by the Texas Parks and Wildlife Department (TPWD) and

other artificial reef placement within coastal bays was obtained from TPWD annual reports, unpublished memos and personal communication with TPWD employees. Information on spoil islands was obtained from public notices issued by the U. S. Department of the Army, Corps of Engineers. The Texas General Land Office (GLO) provided data on piers and docks registered with their office. The U.S. Department of the Army, Corps of Engineers provided data on the jetties. The number of bay jetties in this report is a minimum estimate because no published information exists for some projects outside the Corps of Engineers jurisdiction. The U. S. Coast Guard's local notice to mariners provided the data for offshore petroleum platforms.

TPWD employees checked all existing petroleum platforms during 1984 in coastal bays to determine if shell pads were present (Fig. 1). The presence of a pad was confirmed either with a fathometer or with a sounding rod. Approximate locations of inshore oil wells were made using rough triangulations from known landmarks or locations taken from oil company charts. When surveying an oil field within the same general area, a centrally located well was used for all latitudes and longitudes. Tire reefs were surveyed using a sounding rod or by divers in scuba gear. Gulf reefs were not surveyed.

Shell pads were built by dredging companies under the supervision of TPWD in San Antonio Bay during 1969 to 1983. The pads were initially placed at a thickness of from 15 to 30 cm. They were resurveyed during 1981 to 1984 to determine changes in size. The reef boundaries were marked with cane poles where there was a 50-50 mud and shell mixture. The markers were then located by triangulation using a Navy Mark II sextant and plotted on a 1"-2000' scale Mylar map. The resurvey acreage was then compared to the original survey acreages and an estimate of the percentage that remained was made (1 = 0-25%, 2 = 26-75%, 3 = 76-100%).

## RESULTS

A total of 68 intentional artificial reefs amounting to a minimum bottom area of 502 ha and consisting of various materials such as oyster shell, tires, cars, construction rubble, barges, pipes, ships, and drilling rigs have been constructed in Texas waters since 1947 (Table 1). Since most artificial reefs are three-dimensional structures, the total area that is available to attract organisms is greater than the bottom area. In addition a minimum of 2191 unintentional artificial reef areas consisting of open water spoil disposal areas, piers and docks, jetties, oil and gas well shell pads, and offshore petroleum platforms were in place.

## Intentionally Constructed Reefs

## Shell

Twenty-one of 41 artificial shell reefs constructed on the Texas coast from 1947 to 1982 were present, at least partially in 1984 (Table 1). Eleven of 13 artificial shell reefs in Galveston Bay constructed from 1952 to 1964 were still present at least partially. Neither of the two shell reefs constructed in Matagorda Bay remains. One was built prior to Hurricane Carla (1971) which apparently scattered a large portion of the shell (Lex Sutton, personal communication, TPWD). Nine of ten artificial shell reefs constructed in San Antonio Bay by TPWD from 1969 to 1982 remain, at least partially. A 4.9-ha artificial shell reef south of Halfmoon Reef sank within 1 to 2 years of placement (W. F. Neill, personal communication, TPWD). Decreases in the size of other artificial reefs in San Antonio Bay were noted. The artificial shell reef on Middleground Reef adjacent to the natural reef was present, but the artificial reef away from the natural reef had lost ~25% of its shell within 2 years of placement. On Chickenfoot Reef, there was no pattern of shell loss, but ~25% was gone within 2 years of placement. Decreases in the size of several natural reefs in upper San Antonio Bay were also noted. One of five small reefs placed in Aransas Bay remain. None of the three reefs placed in Corpus Christi Bay in the early 1960's remain; College Reef was covered by sand soon after construction (Bradley 1964). None of the 8 small shell reefs that were constructed in the Laguna Madre in the late 1950's and early 1960's remain; most did not last more than 2 years, according to TPWD employees.

## Tire

Eight reefs constructed from baled tires were built on the Texas coast from 1966 to 1977 (Table 1). As of 1984, the one built in Sabine Lake (1977) was still present. None of the three in Galveston (1966-1977) remained. The two placed in Matagorda Bay (1977) had partially sunk. One each in Aransas (1977) and Corpus Christi Bays (1977) had partially sunk.

The Dry Hole tire reef in Trinity Bay was checked in 1968 two years after its placement and was found to be intact. It was rechecked 9 years after its placement and was found to have sunk completely into the mud (Benefield and Mercer 1982). The tire reef in West Galveston Bay was constructed in 1971 (Benefield and Mercer 1982). When checked in 1974, it had sunk almost halfway into the bottom and numerous encrusting organisms were noted. It was rechecked again in 1982 (Benefield and Mercer 1982) and only several isolated clusters of tires were located (R. L. Benefield, personal communication, TPWD). A third reef was built in Galveston Bay off the Sylvan Beach fishing pier in 1977 (Benefield and Mercer 1982). It was checked in 1980 and no tires were found (R. L. Benefield, personal communication, TPWD).

The two tire reefs in Matagorda Bay were built in 1977 (Benefield and Mercer 1982). They were checked in 1980 and were found to be intact (R. L. Benefield, personal communication, TPWD). When rechecked in 1984, many of the tires had sunk out of sight and the ones that remained presented a low profile (< 15 cm).

The tire reefs in Corpus Christi and Aransas Bays were built in 1977 (Benefield and Mercer 1982). They were checked in 1980 and were present although they had sunk 15 to 30 centimeters into the sediment (W. E. Mercer, personal communication, TPWD).

#### Gulf

Nine separate artificial reefs constructed from old cars, concrete pipes and discarded construction materials were placed in the nearshore Gulf of Mexico in the late 1950's and 1960's (Table 1). Most of the cars corroded or sank into the bottom within 2 to 4 years. The concrete and pipe reef off Galveston remained fishable for approximately 7 to 8 years (R. L. Benefield, personal communication, TPWD).

Eight separate artificial reefs constructed from drilling rigs and ships were placed in the nearshore Gulf in the 1970's and 1980's (Table 1). In 1984, all of the material remained.

#### Unintentionally Constructed Reefs

##### Spoil Areas

There were 239 open-water spoil sites permitted in Texas waters in 1984 (Table 2). They covered approximately 15,000 ha of bay bottom. Of these, 554 ha have not been used in over 10 years. The Gulf of Mexico offshore of Sabine Pass (Sabine-Neches Waterway) accounted for an additional 5516 ha. Spoil areas in each bay ranged from 518 ha in San Antonio Bay to 5789 ha in Galveston Bay.

The disposal material from some initial dredging operations contain shell fragments favorable for oyster spat to settle onto. Shell fragments from a pipeline crossing in Galveston Bay developed into part of the south Redfish Bar reef (R. P. Hofstetter personal communication, TPWD). Pipeline spoil in upper San Antonio Bay developed into an oyster reef (W. F. Neill, personal communication, TPWD). In addition, several reefs in San Antonio Bay parallel to the ICWW, have developed in spoil disposal areas.

##### Piers and Docks

There were 1362 private and commercial piers and docks with permits on the Texas coast as of 1984 (Table 3). Individual bay system totals ranged from 8 in San Antonio Bay to 608 in Matagorda Bay. These are minimum estimates since the compliance rate for licensing ranges from 10 to 90% in each bay (Bruce Smith, personal communication, GLO).



## Jetties

There were 14 jetties (including one under construction) on the Texas coast representing ~228 ha of bottom area (Table 4).

## Inshore Petroleum Platforms

There were 874 wells in Texas coastal bays with 395 shell pads in 1984 (Table 5). The number of wells and associated pads ranged from 75 wells in the Laguna Madre (with only one shell pad) to 325 wells in Galveston Bay (217 with shell pads).

Oyster shell pads have been utilized by oil well drilling companies to stabilize drilling rigs on soft mud bottoms, or in water >2.5 m. If a pad was required, an area slightly bigger than the drilling rig barge (~0.1 ha) was built.

## Offshore Petroleum Platforms

There were 402 petroleum structures and sub-sea installations in the Gulf of Mexico off Texas (U.S. Department of Transportation 1981). Of these, 181 were within the Texas Territorial Sea (Table 6).

## DISCUSSION

Artificial reefs are successful in terms of their longevity, accessibility and productivity. The type of material used in the artificial reef's construction and the sediment type on which it was located are important in increasing the longevity of the artificial reef. The TPWD artificial shell reef program was the most successful, in terms of longevity, in Galveston and San Antonio Bays. However, these bays have numerous natural reefs and the placement of additional shell need not be actively pursued, unless as possible mitigation for commercial activities. To extend an artificial shell reef's life, care should be taken about the bottom type on which it is located. It should be placed on a firm mud bottom but not one with a high sand content. Van Sickle et. al. (1976) concluded that oysters grow best on bottom hardened with firm mud, rock or shell; but they did not do well on sandy or soft mud bottoms. The high percentage of sand in the sediment was possibly a major factor in the loss of all the artificial shell reefs in Corpus Christi Bay and the Laguna Madre and one artificial shell reef in San Antonio Bay. Decreases in the size of other artificial shell reefs in San Antonio Bay may have been the result of unfavorable growing conditions, or experimental error in the way the reefs were measured between surveys (Crowe 1984a).

Tire reefs apparently have a relatively short life expectancy; at most 3-5 years. Although some were still present after several

years, they may not provide sufficient bottom relief to attract fish or fishermen. Ditton and Graefe (1978) reported that only 3% of Galveston Bay fishing trips were to tire reefs.

Artificial structures attract fishermen in Gulf waters. Accessibility has been cited as a critical ingredient in an artificial reefs' utilization (Parker et al. 1974, Ditton and Fedler 1983, Ditton and Auyong 1984). In 1977, approximately 50% of all offshore fishing trips in Texas were to producing petroleum platforms and 5% were to Liberty ship reefs (Ditton and Graefe 1978). According to Ditton and Fedler (1983), most offshore fishing trips in Texas (~53%) were made within 18.5 km of shore and only about 7% traveled further than 55.6 km from shore. Future development of artificial reefs in the Gulf of Mexico should concentrate on past successes (*i.e.* petroleum platforms and ships) and avoid past failures (*i.e.* old cars and construction material). The costs of maintaining reef markers should also be considered before new reefs are constructed. For example, to buy and maintain a marker on one Liberty Ship reef costs about \$30,000 per year (Texas Coastal and Marine Council, unpublished data).

The total area of bay open-water spoil disposal sites (~15,000 ha) approximately equaled the surface area of East Matagorda Bay. These spoil areas ranged from submergent to emergent and from frequently used to infrequently used. Although these areas may create some beneficial habitat at their edges, these benefits are offset by the losses of aquatic habitat they displace.

The fishing benefits of artificial reefs are also being realized in Texas currently without the intentional construction of new reefs. Piers, jetties and petroleum platforms continue to be built by private industry at little or no direct cost to anglers. In addition to meeting their primary objective, they also perform the same function as intentionally created reefs (*i.e.* create substrate, concentrate fish, etc.). However, there are some adverse impacts associated with these types of reef. For example, there is loss of aquatic habitat thru displacement and interference with other fisheries (e.g. shrimp).

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Table 1. Location, materials used and size (ha) of intentional artificial reefs constructed in seven Texas bay systems during 1947-1983.  
 ND = no data.

Bay system Reef	Date built	Size (Ha)	Latitude	Longitude	Material	Portion remaining <sup>a</sup>	Reference <sup>b</sup>
<b>Sabine Lake</b>							
South Sabine Lake	1977	0.4	29°47'08"	95°05'78"	600 Tires	3	Benefield and Mercer 1982
<b>Galveston Bay</b>							
South Redfish Bar	1955	ND	29°30'00"	94°50'00"	Spoil-shell	3	Hofstetter, personal communication
Bayview	1952	0.8	29°31'00"	94°59'00"	Shell reef	1	Hofstetter, unpub. memo
Umbrella Point	1954	0.4	29°39'30"	94°53'30"	Shell reef	1	Hofstetter, unpub. memo
Switchover	1957-64	25.9	29°30'30"	94°53'30"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Experimental	1958	2.8	29°29'30"	94°53'30"	Thin shell layer	3	Hofstetter, unpub. memo
Smith Point	1958-63	1.2	29°33'00"	94°47'30"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Trinity River Channel	1959	9.3	29°30'15"	94°51'00"	Live oysters	3	Hofstetter, unpub. memo
Marker 58	1959-60	6.9	29°31'00"	94°53'00"	Shell reef-live oysters	2	Hofstetter, unpub. memo
Eagle Point	1959-61	17.0	29°30'30"	94°55'00"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Halfway	1960	2.8	29°30'30"	94°55'00"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Gaspise	1960	14.1	29°31'00"	94°47'30"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Courthouse	1961	3.2	29°33'30"	95°00'15"	Shell reef-live oysters	2	Hofstetter, unpub. memo
Trinity River Channel	1961	3.6	29°30'30"	94°50'30"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Four Bit	1961	9.7	29°27'45"	94°50'00"	Shell reef-live oysters	2	Hofstetter, unpub. memo
Lonesome	1962	7.3	29°35'30"	94°49'00"	Thin shell layer	3	Hofstetter, unpub. memo
Sun Flare	1962	ND	29°38'45"	94°50'45"	Live oysters	2	Hofstetter, unpub. memo
ST 106	1962	ND	29°33'45"	94°46'00"	Live oysters	2	Hofstetter, unpub. memo
ST 220	1962	ND	29°34'30"	94°55'00"	Live oysters	1	Hofstetter, unpub. memo
Dry Hole	1962-64	6.5	29°36'00"	94°51'45"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Clamshell	1963	4.0	29°35'15"	94°45'45"	Thin shell layer	3	Hofstetter, unpub. memo
Tern	1964	13.8	29°36'00"	94°50'45"	Shell reef-live oysters	3	Hofstetter, unpub. memo
Trinity	1961-62	7.3	29°41'00"	94°51'00"	Thin shell layer	3	Hofstetter, unpub. memo



Table 1. (Cont'd.).

Bay system Reef	Date built	Size (Ha)	Latitude	Longitude	Material	Portion remaining <sup>a</sup>	Reference <sup>b</sup>
<b>Galveston Bay (Cont'd.).</b>							
Dry Hole	1966	0.02	29°38'00"	94°52'00"	1000 tires	1	Benefield and Mercer 1982
West Galveston Bay	1971	3.2	29°09'00"	95°07'00"	2000 tires	1	Benefield and Mercer 1982
Sylvan Beach	1977	0.1	29°38'48"	95°00'48"	1200 tires	1	Benefield and Mercer 1982
Fishing Pier							
Redfish Bar	1980	313.0	29°30'00"	94°50'00"	Thin shell layer	3	Hofstetter 1981
<b>Matagorda Bay</b>							
Palacios Area	1947-48	1.2	ND	ND	Live oysters	1	Baker, 1948
Gadwall	1960-61	ND	28°38'10"	96°19'40"	Shell reef	1	Heffernan 1962
Coon Island	1977	0.1	28°39'35"	96°13'50"	Tires	2	Benefield and Mercer 1982
Baptist Encampment	1977	0.1	28°41'48"	96°12'39"	Tires	2	Benefield and Mercer 1982
<b>San Antonio Bay</b>							
S of Halfmoon Reef	1969-70	4.9	28°20'00"	96°46'30"	Shell reef	1	
Adjacent to Reef 51	1973-76 <sup>C</sup>	7.3	28°19'40"	28°19'40"	Shell reef	2	
Between Reef 167-168	1973-76 <sup>C</sup>	2.4	28°22'00"	96°46'30"	Shell reef	2	
NW end of Reef 78	1973-76 <sup>C</sup>	5.7	28°19'20"	96°46'00"	Shell reef	2	
Middleground	1976-77	5.3	28°17'00"	96°41'00"	Shell reef	2	Clements 1982
	1978	0.4			Shell reef	2	Garcia 1979
	1982	2.4			Shell reef	2	Crowe 1984a
	1982	3.3			Shell reef	3	Crowe 1984b
N side of Reef 73	1982	0.5	28°18'10"	96°46'40"	Shell reef	3	
Chickenfoot	1982	3.8	28°13'30"	96°47'50"	Shell reef	2	Crowe 1984b

Table 1. (Cont'd.).

Bay system Reef	Date built	Size (Ha)	Latitude	Longitude	Material	Portion remaining <sup>a</sup>	Reference <sup>b</sup>
<b>Arkansas Bay</b>							
Pintail	1960	1.4	27°59'00"	96°59'30"	Shell reef-live oysters	3	Heffernan 1961
Mesquite Bay	1947	2.4	ND	ND	Live oysters	1	Baker, 1949
California Hole	1948	0.4	27°55'30"	97°05'00"	Live oysters	1	Baker, 1949
Carlos Bay	1948	0.4	28°06'00"	96°54'55"	Shell reef-live oysters	1	Baker, 1949
Copano Bay	1948	1.2	28°12'00"	97°01'00"	Live oysters	1	Baker, 1949
Rockport Jetty	1966	0.1	28°01'30"	97°02'04"	Concrete	3	Garrison, unpub. memo
	1977	0.1		1700 tires		3	Benefield and Mercer 1982
<b>Corpus Christi Bay</b>							
Breakwater	1962	0.2	27°48'47"	97°23'17"	Shell reef	1	Breuer 1963b
Oso	1962	0.2	27°43'12"	97°19'45"	Shell reef	1	Breuer 1963b
College	1962	0.2	27°42'59"	97°18'52"	Shell reef	1	Breuer 1963b
Cole Park Pier	1977	0.1	27°46'48"	97°23'12"	1200 tires	3	Benefield and Mercer 1982
<b>Laguna Madre</b>							
Number 1	1958	0.2	26°10'00"	96°14'00"	Shell reef	1	Breuer 1961
Number 2	1958	0.2	26°07'00"	97°12'00"	Shell reef	1	Breuer 1961
Number 3	1958	0.2	26°03'00"	97°12'00"	Shell reef	1	Breuer 1961
Number 4	1958	0.2	26°03'00"	97°14'00"	Shell reef	1	Breuer 1961
Number 5	1958	0.2	26°07'00"	97°16'00"	Shell reef	1	Breuer 1961
Number 6	1958	0.2	26°03'00"	97°15'00"	Shell reef	1	Breuer 1961
5.6 km W Marker	1961-62	0.4	27°32'12"	97°19'36"	Shell reef	1	Breuer 1963a
1.8 km E Marker	1961-62	0.4	27°25'36"	97°20'18"	Shell reef	1	Breuer 1963a

Table 1. (Cont'd.).

Bay system Reef	Date built	Size (Ha)	Latitude	Longitude	Material	Portion remaining <sup>a</sup>	Reference <sup>b</sup>
<b>Nearshore Gulf of Mexico</b>							
Port Aransas	1958	ND	27°46'25"	95°58'15"	200 cars	1	Martinez 1963
	1959	ND			400 cars	1	
	1963	ND			Construction rubble	1	Martinez 1963
	1968	ND	27°41'05"	96°58'05"	4 barges	ND	Anonymous 1969
Freeport	1959	ND	28°50'06"	95°08'05"	600 cars	1	Stevens 1963
Port Isabel	1958	ND			600 cars	1	Garrison unpub. memo
Galveston	1962	0.3	29°08'40"	94°42'10"	Concrete	1	Stevens 1963
	1963	0.1			Pipe	1	Stevens 1963
	1966	ND			Pipe	1	Garrison unpub. memo
South Padre Is.	1975	0.6	26°25'45"	97°01'00"	3 Liberty ships	3	U.S. Department of Interior 1983
Port Aransas	1976	0.6	27°34'10"	96°51'30"	3 Liberty ships	3	U.S. Department of Interior 1983
Matagorda Is.	1976	0.6	28°06'35"	96°05'00"	3 Liberty ships	3	U.S. Department of Interior 1983
Freeport	1977	ND	28°35'50"	94°48'40"	2 Liberty ships- V.A. Fogg	3	U.S. Department of Interior 1983
Vancouver	1977	0.2	28°47'39"	95°20'52"	1 Liberty ship	3	U.S. Department of Interior 1983
Topper III	1977	ND	28°14'48"	94°02'38"	Drilling rig	ND	U.S. Department of Interior 1983
					wreck		
Arco	1981	ND	26°47'20"	97°09'22"	Sunken drilling rig	3	U.S. Department of Interior 1983
Eaglescliff	1983	0.04	29°21'55"	94°41'51"	Ship	ND	Corps of Engineers unpub.
<b>Grand total</b>		507.86					

<sup>a</sup> 1 = 0-25%, 2 = 26-75%, 3 = 76-100%<sup>b</sup> unpublished memo and personal communication are from TPWD employees.<sup>c</sup> approximate date.

Table 2. Size (ha) of open water disposal areas on the Texas coast permitted by the U.S. Department of the Army, Corps of Engineers (USCOE) during 1984.

Area	USCOE Disposal area	Size (ha)	Public notice <sup>b</sup>
<b>Gulf of Mexico</b>	1	567	SN-M-1
Sabine-Neches Waterway	2	1700	SN-M-1
	3	1578	SN-M-1
	4	1671	SN-M-1
<b>Galveston Bay</b>			
Galveston Harbor	1	2226	GALV-M-1
Port Bolivar Channel	1	2	GALV-M-2
Texas City Dike	2	120	GALV-M-5
	3	60	GALV-M-5
	4	36	GALV-M-5
Houston Ship Channel	1	91	HSC-M-1
	2	263	HSC-M-1
	3	140	HSC-M-1
	4	180	HSC-M-1
	5	195	HSC-M-1
	6	26	HSC-M-1
	7	99	HSC-M-1
	8	26	HSC-M-1
	9	26	HSC-M-1
	10	448	HSC-M-1
	11	136	HSC-M-1
	12	264	HSC-M-1
	13	28	HSC-M-1
16	221	HSC-M-1	
Clear Lake- Clear Creek	1	14	GALV-M-3
	2	9	GALV-M-3
	3 <sup>a</sup>	6	GALV-M-3
	4 <sup>a</sup>	13	GALV-M-3
	5 <sup>a</sup>	7	GALV-M-3
	6 <sup>a</sup>	8	GALV-M-3
Cedar Bayou	2	23	HSC-M-2
	3	22	HSC-M-2
	4	27	HSC-M-2

Table 2. (Cont'd.).

Area	USCOE Disposal area	Size (ha)	Public notice <sup>b</sup>
<b>Galveston Bay (Cont'd.).</b>			
Trinity River	14	11	TRIN-M-1
	15	13	TRIN-M-1
	16	8	TRIN-M-1
	17	11	TRIN-M-1
	18	19	TRIN-M-1
	19	19	TRIN-M-1
	20	7	TRIN-M-1
Channel to Liberty	21 <sup>a</sup>	11	TRIN-M-5-1
	22 <sup>a</sup>	26	TRIN-M-5-1
	23 <sup>a</sup>	26	TRIN-M-5-1
Double Bayou	1	40	TRIN-M-2
	2	40	TRIN-M-2
	3	40	TRIN-M-2
	4	40	TRIN-M-2
	5	40	TRIN-M-2
	6	40	TRIN-M-2
	7	40	TRIN-M-2
	8	40	TRIN-M-2
	9	40	TRIN-M-2
	10	40	TRIN-M-2
Galveston Bay	46	39	IWW-M-3
	47	55	IWW-M-3
	48	34	IWW-M-3
	49	34	IWW-M-3
	50	47	IWW-M-3
	51	83	IWW-M-3
	52	55	IWW-M-3
	53 <sup>a</sup>	13	IWW-M-3
	54 <sup>a</sup>	18	IWW-M-3
	55	25	IWW-M-3
	56	20	IWW-M-3
	57	26	IWW-M-3
	58	10	IWW-M-3
	59	16	IWW-M-3
60	19	IWW-M-3	
68	19	IWW-M-3	
69	9	IWW-M-3	

Table 2. (Cont'd.).

Area	USCOE		Public notice <sup>b</sup>
	Disposal area	Size (ha)	
<b>Gulf of Mexico</b>			
Freeport Harbor	1	166	BRAZ-M-1
Matagorda Bay	113	21	IWW-M-3
	114	34	IWW-M-3
	115	21	IWW-M-3
	116A	9	IWW-M-10
	116B	12	IWW-M-10
Channel to Palacios	1	17	IWW-M-15
	2	17	IWW-M-15
	3	17	IWW-M-15
	4	22	IWW-M-15
	5	22	IWW-M-15
	6	22	IWW-M-15
	7	17	IWW-M-15
	8	17	IWW-M-15
	9	17	IWW-M-15
	10	14	IWW-M-15
	11	28	IWW-M-15
	12	22	IWW-M-15
	13	18	IWW-M-15
	14	16	IWW-M-15
Matagorda Ship Channel	1	84	GUAD-M-1
	5	4	GUAD-M-1
	6	4	GUAD-M-1
	7	19	GUAD-M-1
	8	65	GUAD-M-1
	9	56	GUAD-M-1
	10	65	GUAD-M-1
	11	47	GUAD-M-1
	12	9	GUAD-M-1
	13 <sup>a</sup>	11	GUAD-M-1
	14	37	GUAD-M-1
	15	56	GUAD-M-1
	16	39	GUAD-M-1
	17	45	GUAD-M-1
	18	23	GUAD-M-1
	19	36	GUAD-M-1
	20	45	GUAD-M-1

Table 2. (Cont'd.).

Area	USCOE Disposal area	Size (ha)	Public notice <sup>b</sup>
<b>Matagorda Bay (Cont'd.).</b>			
Matagorda Ship Channel (Cont'd.).	21	32	GUAD-M-1
	22	34	GUAD-M-1
	23	20	GUAD-M-1
	25	11	GUAD-M-1
	26	7	GUAD-M-1
	27	8	GUAD-M-1
	28	6	GUAD-M-1
	29	12	GUAD-M-1
	30	18	GUAD-M-1
	31	13	GUAD-M-1
	32	13	GUAD-M-1
	33	13	GUAD-M-1
	34	13	GUAD-M-1
	<b>San Antonio Bay</b>	122	77
123		53	IWW-M-10
124		59	IWW-M-10
125		46	IWW-M-10
Victoria Barge Canal	1	14	IWW-M-7
	2	11	IWW-M-7
	3	95	IWW-M-7
	5	9	IWW-M-7
	6	13	IWW-M-7
	7	15	IWW-M-7
	8	16	IWW-M-7
	9	17	IWW-M-7
	10	14	IWW-M-7
	11	36	IWW-M-7
	12	17	IWW-M-7
	13	12	IWW-M-7
	14	14	IWW-M-7
	<b>Aransas Bay</b>	132	21
133		77	IWW-M-13
134		47	IWW-M-13
135		60	IWW-M-13
136		54	IWW-M-13
137		48	IWW-M-13
138		55	IWW-M-13
139		37	IWW-M-13

Table 2. (Cont'd.).

Area	USCOE		Public notice <sup>b</sup>
	Disposal area	Size (ha)	
<b>Aransas Bay (Cont'd.).</b>	140	44	IWW-M-13
	141 <sup>a</sup>	91	IWW-M-13
	142	65	IWW-M-13
	143	47	IWW-M-13
	144 <sup>a</sup>	65	IWW-M-13
Channel to Rockport	1	19	IWW-M-16
Little Bay	1	4	LB-NW-1
<b>Corpus Christi Bay</b>	147 <sup>a</sup>	19	IWW-M-13
	148 <sup>a</sup>	23	IWW-M-13
	149 <sup>a</sup>	28	IWW-M-13
	150 <sup>a</sup>	19	IWW-M-13
	151 <sup>a</sup>	19	IWW-M-13
	152 <sup>a</sup>	19	IWW-M-13
	153 <sup>a</sup>	23	IWW-M-13
	154 <sup>a</sup>	19	IWW-M-13
	156 <sup>a</sup>	30	IWW-M-13
	158 <sup>a</sup>	13	IWW-M-13
	159 <sup>a</sup>	6	IWW-M-13
	171	49	IWW-M-7
	2	14	IWW-NW-1
	3	26	IWW-NW-1
	4	75	IWW-NW-1
	5	26	IWW-NW-1
	6	57	IWW-NW-1
7	44	IWW-NW-1	
Corpus Christi Ship Channel	1	890	NUEC-NW-1
	6	95	NUEC-NW-1
	7	62	NUEC-NW-1
	8	82	NUEC-NW-1
	9	84	NUEC-NW-1
	14	405	NUEC-NW-1
	15	80	NUEC-NW-1
	16	136	NUEC-NW-1
	17	104	NUEC-NW-1
18	28	NUEC-NW-1	
<b>Laguna Madre</b>	172	49	IWW-M-9
	173 <sup>a</sup>	110	IWW-M-9
	174 <sup>a</sup>	22	IWW-M-9



Table 2. (Cont'd.).

Area	USCOE Disposal area	Size (ha)	Public notice <sup>b</sup>
<b>Laguna Madre</b> (Cont'd.).	175 <sup>a</sup>	6	IWW-M-9
	176	13	IWW-M-9
	177	51	IWW-M-9
	178	13	IWW-M-9
	179	48	IWW-M-9
	180	16	IWW-M-9
	181	51	IWW-M-9
	182	40	IWW-M-9
	183	55	IWW-M-9
	184	40	IWW-M-9
	185	37	IWW-M-9
	186	42	IWW-M-9
	187	52	IWW-M-9
	188	57	IWW-M-9
	189	44	IWW-M-9
	190	27	IWW-M-9
	191	26	IWW-M-9
	192	35	IWW-M-9
	193	36	IWW-M-9
	194	41	IWW-M-9
	195	31	IWW-M-9
	196	40	IWW-M-9
	197	121	IWW-M-9
	198	54	IWW-M-9
	199	44	IWW-M-9
	200	77	IWW-M-9
	201	70	IWW-M-9
	202	74	IWW-M-9
	211	59	IWW-M-4
	212	78	IWW-M-4
	213	78	IWW-M-4
	214	78	IWW-M-4
215	78	IWW-M-4	
216	78	IWW-M-4	
217	78	IWW-M-4	
218	78	IWW-M-4	
219	46	IWW-M-4	
220	87	IWW-M-4	
221	122	IWW-M-4	
222	84	IWW-M-4	
223	64	IWW-M-4	
224	71	IWW-M-4	

Table 2. (Cont'd.).

Area	USCOE		Public notice <sup>b</sup>
	Disposal area	Size (ha)	
<b>Laguna Madre</b> (Cont'd.).	227	31	IWW-M-4
	228	119	IWW-M-4
	229	52	IWW-M-4
	230	34	IWW-M-4
	231	51	IWW-M-4
	232	51	IWW-M-4
	233	84	IWW-M-4
	234	77	IWW-M-4
	235	51	IWW-M-4
	236	53	IWW-M-4
	237	9	IWW-M-4
	239	20	IWW-M-4
	Channel to Port Mansfield	1 2	93 19
Brownsville Ship Channel	1	890	RIO-M-1
<b>All Areas Combined</b>		20,571	

<sup>a</sup>Sites have not been used in the past ten years.

<sup>b</sup>References can be found in Literature Cited.

Table 3. Number of private and commercial piers on record with the General Land Office in Texas coastal bays in 1984.

Type of pier	Bay system							All bays combined
	Sabine Lake	Galveston <sup>a</sup>	Matagorda <sup>b</sup>	San Antonio	Aransas	Corpus Christi	Laguna Madre	
Private (<33.3 m)	4	283	522	3	68	11	74	965
Private (>33.3 m)	0	52	83	4	115	9	90	353
Commercial (>33.3 m)	6	27	3	1	1	0	6	44
Total	10	362	608	8	184	20	170	1362

<sup>a</sup>Including San Bernard and Brazos Rivers

<sup>b</sup>Including Caney Creek and Colorado River

Table 4. Size (ha) and construction of jetties along the Texas coast during 1984. Blanks indicate no information available.

Jetty	Date built	Date rehabilitated	Approximate bottom area (ha)
<b>Sabine Pass</b>			
East Jetty	1920		14.6
West Jetty	1929		18.9
<b>Galveston</b>			
North Jetty	1897	1965	32.0
South Jetty	1897	1965	44.4
Federal Groins	1939	1970	3.4
County Groins	1954-62	1961-62	1.5
<b>Port Bolivar Dike</b>	1934	1966	0.5
<b>Texas City Dike</b>	1934	1964	34.8
<b>Freeport</b>			
North Jetty	1908		4.9
South Jetty	1908		4.8
<b>Matagorda Ship Channel</b>			
North Jetty	1966		5.7
South Jetty	1966		4.9
<b>Palacios</b>			
East Breakwater	1966		1.3
West Breakwater	1966		0.2
<b>Port O'Connor</b>			
North Dike	1939	1965, 1985	0.6
South Dike	1939	1965	0.8
<b>Port Mansfield</b>			
North Jetty	1962		4.0
South Jetty	1962		2.5

Table 4. (Cont'd.).

Jetty	Date built	Date rehabilitated	Approximate bottom area (ha)
<b>Corpus Christi-Aransas Pass</b>			
North Jetty	1916	1963-65	13.9
South Jetty	1916	1963-65	9.6
<b>Brazos Island Harbor</b>			
North Jetty	1935	1979	9.5
South Jetty	1935	1964-66	11.8
<b>Mouth of the Colorado</b>			
North Jetty	Under construction		1.4
South Jetty	Under construction		1.2
<b>Port Aransas</b>			
East Breakwater	1973		0.4
West Breakwater	1973		0.3

Table 5. Description of oil and gas wells in seven Texas bay systems during 1984. ND = no data.

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Galveston Bay	Redfish Reef	E Exxon	1	29°30'50"	94°54'45"	Yes	Mud
			3	29°30'55"	94°55'00"	Yes	Mud
			4	29°30'45"	94°55'00"	Yes	Mud
			5	29°30'45"	94°55'15"	Yes	Mud
			2	29°31'30"	94°54'40"	Yes	Mud
			3	29°31'15"	94°54'45"	Yes	Mud
			4	29°31'00"	94°54'40"	Yes	Mud
			5	29°31'20"	94°54'45"	Yes	Mud
			6	29°31'15"	94°54'55"	Yes	Mud
			8	29°31'20"	94°54'25"	Yes	Mud
			12	29°31'05"	94°54'45"	Yes	Mud
			13	29°31'00"	94°54'35"	Yes	Mud
			1	29°31'20"	94°54'05"	Yes	Mud
263	29°31'30"	94°53'40"	Yes	Mud			
47	29°31'45"	94°52'45"	Yes	Mud			
39/193	29°32'30"	94°52'20"	Yes	Mud			
3	29°32'30"	94°52'15"	Yes	Mud			
155	29°32'20"	94°52'20"	Yes	Mud			
126	29°31'55"	94°52'40"	Yes	Mud			
8	29°32'40"	94°52'10"	Yes	Mud			
119	29°32'15"	94°52'05"	Yes	Mud			
43	29°32'00"	94°52'10"	Yes	Mud			
25	29°32'00"	94°52'20"	Yes	Mud			
26	29°31'50"	94°52'05"	Yes	Mud			
152	29°31'40"	94°52'20"	Yes	Mud			
144	29°31'35"	94°52'05"	Yes	Mud			
106	29°32'20"	94°51'50"	Yes	Mud			
199	29°32'15"	94°51'55"	Yes	Mud			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Galveston Bay</b> (Cont'd.).	Redfish Reef (Cont'd.).	247	21	29°32'15"	94°51'50"	Yes	Mud
			22	29°32'05"	94°52'00"	Yes	Mud
			192	29°32'05"	94°51'55"	Yes	Mud
			191/23	29°32'05"	94°51'50"	Yes	Mud
			1	29°32'00"	94°51'25"	Yes	Mud
			198	29°31'55"	94°51'40"	Yes	Mud
			188	29°31'55"	94°51'25"	Yes	Mud
			36	29°31'45"	94°51'55"	Yes	Mud
			175	29°31'40"	94°51'35"	Yes	Mud
			154	29°31'35"	94°52'00"	Yes	Mud
	224	151	29°32'45"	94°51'45"	Yes	Mud	
		131	29°32'40"	94°51'45"	Yes	Mud	
		178	29°32'35"	94°51'40"	Yes	Mud	
		176	29°32'30"	94°51'45"	Yes	Mud	
		42	29°32'30"	94°51'50"	Yes	Mud	
		24	29°32'30"	94°51'40"	Yes	Mud	
		161	29°32'30"	94°51'25"	Yes	Mud	
		34	29°32'25"	94°51'40"	Yes	Mud	
		185	29°32'20"	94°51'40"	Yes	Mud	
		137	29°32'20"	94°51'30"	Yes	Mud	
265	179	29°32'25"	94°51'25"	Yes	Mud		
	141	29°32'15"	94°51'30"	Yes	Mud		
	189	29°32'25"	94°51'20"	Yes	Mud		
	163	29°30'40"	94°51'15"	Yes	Mud		
	159	29°30'40"	94°51'55"	Yes	Mud		

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Redfish Reef (Cont'd.).	Exxon	246	2	29°31'55"	94°51'15"	Yes	Mud
			182/181	29°31'50"	94°51'00"	Yes	Mud
			183	29°31'40"	94°51'20"	Yes	Mud
			120	29°31'40"	94°51'00"	Yes	Mud
			89	29°31'25"	94°51'30"	Yes	Mud
			174	29°31'05"	94°51'10"	Yes	Mud
			197	29°31'40"	94°50'50"	Yes	Mud
			73	29°31'35"	94°50'45"	Yes	Mud
			194	29°31'40"	94°50'40"	Yes	Mud
			71	29°31'25"	94°50'45"	Yes	Mud
			91	29°31'15"	94°50'55"	Yes	Mud
		245	109	29°30'55"	94°50'45"	Yes	Mud
		225	190	29°32'15"	94°50'40"	Yes	Mud
			132	29°32'15"	94°50'30"	Yes	Mud
			187	29°32'05"	94°50'40"	Yes	Mud
			170	29°32'00"	94°51'00"	Yes	Mud
			86	29°32'00"	94°50'25"	Yes	Mud
			139	29°32'00"	94°50'25"	Yes	Mud
			166	29°31'55"	94°50'20"	Yes	Mud
			50	29°31'55"	94°50'45"	Yes	Mud
			184	29°31'50"	94°50'30"	Yes	Mud
			82	29°31'45"	94°50'25"	Yes	Mud
	201		1	29°32'40"	94°49'40"	Yes	Mud
	200		186	29°32'15"	94°49'45"	Yes	Mud
			195	29°32'10"	94°49'25"	Yes	Mud
			1	29°32'40"	94°49'40"	Yes	Mud
	226		94	29°32'00"	94°48'55"	Yes	Mud
	136		1	29°32'40"	94°48'40"	Yes	Mud



Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad			
<b>Galveston Bay</b> (Cont'd.).	Fishers Reef Exxon	46	86	29°39'55"	94°47'45"	Yes	Mud			
			107	29°39'40"	94°47'40"	Yes	Mud			
			85	29°39'35"	94°47'45"	Yes	Mud			
			59	29°39'55"	94°47'30"	Yes	Mud			
			2	29°39'45"	94°47'25"	Yes	Mud			
			84	29°39'30"	94°47'25"	Yes	Mud			
			10	29°39'55"	94°47'20"	Yes	Mud			
			62	29°39'35"	94°47'10"	Yes	Mud			
			97	29°39'55"	94°47'05"	Yes	Mud			
			51	29°39'45"	94°47'00"	Yes	Mud			
			13	29°39'45"	94°46'45"	Yes	Mud			
			74	29°39'35"	94°46'25"	Yes	Mud			
			63	29°39'15"	94°45'55"	Yes	Mud			
			11	29°40'10"	94°47'05"	Yes	Mud			
			89	29°40'00"	94°46'55"	Yes	Mud			
			17	29°40'15"	94°46'45"	Yes	Mud			
			92	29°40'15"	94°46'30"	Yes	Mud			
			101	29°40'05"	94°46'30"	Yes	Mud			
			12	29°39'55"	94°46'40"	Yes	Mud			
			26	29°40'05"	94°46'10"	Yes	Mud			
			70	29°39'50"	94°46'00"	Yes	Mud			
			71	29°39'40"	94°45'55"	Yes	Mud			
			67	29°39'50"	94°45'50"	Yes	Mud			
			78	29°40'00"	94°45'40"	Yes	Mud			
			68	29°39'40"	94°45'40"	Yes	Mud			
			69	29°39'50"	94°45'35"	Yes	Mud			
			30	29°40'55"	94°45'45"	Yes	Mud			
				4-B						
				4-A						
				8-A						

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad		
<b>Galveston Bay</b> (Cont'd.).									
Fishers Reef (Cont'd.).	Exxon	8-B	45	29°41'05"	94°45'25"	Yes	Mud		
			104	29°40'55"	94°45'15"	Yes	Mud		
			102	29°41'05"	94°45'00"	Yes	Mud		
			110	29°41'15"	94°44'55"	Yes	Mud		
			47	29°41'25"	94°44'45"	Yes	Mud		
			90	29°41'15"	94°44'25"	No	ND		
North Fishers Reef		17-A 18-A	44	29°41'10"	94°44'25"	No	ND		
			34	29°42'50"	94°44'25"	No	ND		
			ND	29°42'50"	94°44'25"	No	ND		
			93	29°44'05"	94°45'10"	No	ND		
			ND	29°44'05"	94°45'10"	No	ND		
			32	29°44'25"	94°45'50"	Yes	Mud		
Trinity Bay	Exxon	19-B	33	29°44'05"	94°46'05"	No	ND		
			100	29°44'15"	94°46'10"	No	ND		
		18/19-C	96	29°44'00"	94°46'20"	Yes	Mud		
			72	29°44'30"	94°46'25"	Yes	Mud		
		18/19-C	37	29°44'15"	94°46'30"	No	ND		
			113	29°44'00"	94°46'35"	No	ND		
			64	29°44'45"	94°46'25"	No	ND		
			67	29°44'40"	94°46'40"	No	ND		
		22/23-C 22/23-B		18/19-C	68	29°44'25"	94°46'50"	No	ND
					53	29°45'00"	94°46'20"	Yes	Mud
					85	29°44'45"	94°46'10"	Yes	Mud
					58	29°44'55"	94°45'50"	Yes	Mud
		22/23-B		22/23-B	55	29°44'40"	94°45'50"	Yes	Mud
					110	29°45'15"	94°45'40"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Galveston Bay (Cont'd.).	Exxon	22/23-B	19	29°44'45"	94°45'30"	No	ND
			12	29°44'30"	94°45'30"	No	ND
			95	29°44'35"	94°45'20"	No	ND
			87	29°44'35"	94°45'20"	No	ND
			51	29°45'10"	94°45'15"	No	ND
			35	29°44'50"	94°45'10"	Yes	Mud
			108	29°44'45"	94°45'05"	Yes	
			92	29°45'00"	94°45'00"	No	ND
			112	29°44'20"	94°45'20"	No	ND
			34	29°44'30"	94°45'05"	Yes	Mud
			76	29°44'25"	94°45'05"	No	ND
			42	29°44'15"	94°45'05"	No	ND
			73	29°44'40"	94°45'00"	No	ND
			116	29°44'10"	94°45'00"	No	ND
			41	29°44'50"	94°44'50"	No	ND
			39	29°44'20"	94°44'50"	No	ND
20	29°44'35"	94°44'45"	No	ND			
75	28°44'45"	94°44'40"	Yes	Mud			
69	29°44'05"	94°44'45"	No	ND			
79	29°44'35"	94°44'40"	Yes	Mud			
109	29°44'20"	94°44'35"	No	ND			
104	29°44'45"	94°44'30"	No	ND			
8	29°44'25"	94°44'00"	Yes	Mud			
15	29°44'20"	94°42'55"	No	ND			
115	29°44'30"	94°42'50"	No	ND			
71	29°44'40"	94°42'45"	No	ND			
28	29°44'40"	94°42'40"	No	ND			
74	29°44'45"	94°42'40"	No	ND			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Trinity Bay (Cont'd.).	Exxon	25/28-A	97	29°44'35"	94°43'50"	No	ND
			50	29°44'45"	94°43'40"	No	ND
			29	29°44'30"	94°43'40"	No	ND
			48	29°44'45"	94°43'15"	No	ND
			9	29°44'15"	94°43'15"	No	ND
			105	29°44'30"	94°43'05"	No	ND
			111	29°45'00"	94°43'05"	No	ND
			78	29°44'50"	94°42'50"	No	ND
			63	29°44'55"	94°44'40"	Yes	Mud
			38	29°45'00"	94°44'35"	No	ND
			80	29°44'55"	94°44'30"	No	ND
			121	29°45'20"	94°44'25"	No	ND
			107	29°45'20"	94°44'20"	No	ND
			1	29°45'00"	94°44'20"	No	ND
			106	29°45'10"	94°44'10"	No	ND
			10	29°44'55"	94°43'55"	No	ND
			Galveston Bay (Cont'd.).	Sun	26/27-B	13	29°45'10"
120	29°45'10"	94°44'50"				No	ND
98	29°45'10"	94°42'55"				No	ND
119	29°45'00"	94°42'55"				No	ND
102	29°45'10"	94°42'45"				No	ND
27	29°45'00"	94°42'45"				No	ND
22	29°44'55"	94°42'30"				No	ND
89	29°37'59"	94°51'33"				Yes	Mud
88	29°37'59"	94°51'33"				Yes	Mud
8500	29°37'30"	94°51'05"				Yes	Mud
9070	29°37'38"	94°50'54"	Yes	Mud			
120	29°37'46"	94°50'03"	Yes	Mud			
9071	29°37'41"	94°50'52"	Yes	Mud			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Trinity Bay (Cont'd.).	Sun	88	559	29°37'56"	94°50'51"	Yes	Mud
			58	29°37'47"	94°50'47"	Yes	Mud
			1	29°38'30"	94°51'30"	Yes	Mud
			24	29°38'02"	94°51'40"	Yes	Mud
			34	29°38'00"	94°50'39"	Yes	Mud
Galveston Bay (Cont'd.).	Tenneco	135-A	119	29°23'00"	94°47'48"	Yes	Mud
			116	29°23'00"	94°47'56"	Yes	Mud
		130-A	1	29°23'00"	94°48'10"	Yes	Mud
			10	29°23'12"	94°48'08"	Yes	Mud
		343	4	29°23'18"	94°23'07"	Yes	Mud
			9	29°23'10"	94°47'57"	Yes	Mud
		342	14	29°23'09"	94°48'07"	Yes	Mud
			7	29°23'04"	94°47'33"	Yes	Mud
		340	11	29°23'08"	94°47'30"	Yes	Mud
			ND	29°23'02"	94°47'23"	Yes	Mud
		342	0	29°23'00"	94°47'49"	Yes	Mud
			3	29°23'18"	94°47'42"	Yes	Mud
		340	ND	29°23'10"	94°46'59"	Yes	Mud
			8	29°23'01"	94°47'10"	Yes	Mud
340	13	29°23'00"	94°46'42"	Yes	Mud		
	1	29°23'50"	94°47'08"	Yes	Mud		
343	ND	29°23'52"	94°47'07"	Yes	Mud		
	5	29°23'21"	94°48'23"	Yes	Mud		
343	ND	29°23'22"	94°47'23"	Yes	Mud		
	2	29°23'26"	94°47'47"	Yes	Mud		

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Galveston Bay (Cont'd.).	Chevron	95	2	29°38'20"	94°55'10"	No	ND
			951	29°38'20"	94°55'20"	No	ND
			1841	29°38'37"	94°55'22"	No	ND
			1852	29°38'12"	94°55'29"	No	ND
			1842	29°38'08"	94°55'23"	No	ND
			5	29°38'38"	94°55'35"	No	ND
			1811	29°38'27"	94°55'44"	No	ND
			1911	29°38'40"	94°55'52"	No	ND
			1870	29°38'44"	94°56'01"	No	ND
			1962	29°38'26"	94°56'02"	No	ND
			184	29°38'20"	94°55'56"	No	ND
			1876	29°38'31"	94°55'53"	No	ND
			1816	29°38'28"	94°55'48"	No	ND
			21	29°38'25"	94°55'47"	No	ND
			1817	29°38'22"	94°55'47"	No	ND
			1822	29°38'22"	94°55'28"	No	ND
			1871	29°38'14"	94°55'32"	No	ND
			1872	29°38'10"	94°55'45"	No	ND
			1874	29°38'10"	94°55'54"	No	ND
			1815	29°38'07"	94°55'57"	No	ND
1825	29°38'10"	94°55'43"	No	ND			
1844	29°37'57"	94°55'39"	No	ND			
112	29°37'43"	94°54'48"	No	ND			
128	29°36'40"	94°55'50"	No	ND			
258	29°33'38"	94°57'22"	Yes	Mud			
ND	29°33'24"	94°57'37"	Yes	Mud			
252	29°33'42"	94°55'40"	Yes	Mud			
2	29°33'42"	94°55'40"	Yes	Mud			
1	29°31'22"	94°54'28"	Yes	Mud			
3	29°31'22"	94°54'28"	Yes	Mud			
303	29°31'43"	94°59'00"	Yes	Mud			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad	
Galveston Bay (Cont'd.).	Sun	130	2	29°36'17"	94°53'37"	Yes	Mud	
			1	29°35'56"	94°53'38"	Yes	Mud	
			3	29°35'31"	94°53'38"	Yes	Mud	
			4	29°35'47"	94°53'31"	Yes	Mud	
	131	59477	131	86	29°35'51"	94°53'05"	Yes	Mud
				157	29°35'41"	94°52'20"	Yes	Mud
				9300	29°35'33"	94°52'25"	Yes	Mud
				1056	29°35'08"	94°52'02"	Yes	Mud
	307	9200	132	1056	29°35'12"	94°52'15"	Yes	Mud
				9200	29°35'29"	94°52'10"	Yes	Mud
				9	29°30'27"	94°55'47"	Yes	Mud
				8	29°30'30"	94°55'44"	Yes	Mud
	288			7	29°30'27"	94°55'10"	Yes	Mud
				5	29°30'46"	94°55'17"	Yes	Mud
				4	29°30'50"	94°55'03"	Yes	Mud
				85	29°30'52"	94°54'49"	Yes	Mud
2				29°30'55"	94°55'06"	Yes	Mud	
394				29°31'42"	94°54'35"	Yes	Mud	
9				29°31'37"	94°54'35"	Yes	Mud	
11				29°31'39"	94°54'45"	Yes	Mud	
23				29°31'36"	94°54'50"	Yes	Mud	
8				29°31'27"	94°54'18"	Yes	Mud	
287			3	29°31'20"	94°54'50"	Yes	Mud	
			7	29°31'17"	94°55'09"	Yes	Mud	
			12	29°31'05"	94°54'40"	Yes	Mud	
			4	29°30'57"	94°54'44"	Yes	Mud	
			57	29°30'58"	94°54'17"	Yes	Mud	
			2	29°31'19"	94°54'05"	Yes	Mud	

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Galveston Bay</b> (Cont'd.).							
Upper Galveston Bay	Chevron	95	2	29°38'20"	94°55'10"	No	ND
			951	29°38'20"	94°55'20"	No	ND
			1841	29°38'37"	94°55'22"	No	ND
			1852-M	29°38'12"	94°55'29"	No	ND
			1842	29°38'08"	94°55'23"	No	ND
		118	5	29°38'38"	94°55'35"	No	ND
			1811	29°38'27"	94°55'44"	No	ND
			1911	29°38'40"	94°55'52"	No	ND
			1870	29°38'44"	94°56'01"	No	ND
			1962	29°38'26"	94°56'02"	No	ND
			184	29°38'20"	94°55'56"	No	ND
			1873	29°38'31"	94°55'53"	No	ND
			1816-M	29°38'28"	94°55'48"	No	ND
			21	29°38'25"	94°55'47"	No	ND
			1817-MU	29°38'22"	94°55'47"	No	ND
			1822	29°38'22"	94°55'28"	No	ND
			1871	29°38'14"	94°55'32"	No	ND
			1872	29°38'10"	94°55'45"	No	ND
			1874	29°38'10"	94°55'54"	No	ND
			1815	29°38'07"	94°55'57"	No	ND
			1825	29°38'10"	94°55'43"	No	ND
			1844	29°37'57"	94°55'39"	No	ND
Lower Galveston Bay (Bolivar Wells)	Chevron	108	ND	29°36'40"	94°55'50"	No	ND
		135-A	119	29°23'00"	94°47'48"	Yes	Mud
			116	29°23'00"	94°47'56"	Yes	Mud
			1	29°23'00"	94°48'10"	Yes	Mud
		340	10	29°24'12"	94°47'08"	Yes	Mud



Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Galveston Bay (Cont'd.).	Chevron	343	4	29°23'18"	94°47'07"	Yes	Mud
			9	29°23'10"	94°47'57"	Yes	Mud
			14	29°23'09"	94°48'07"	Yes	Mud
Galveston Bay (Bolívar Wells) (Cont'd.).	Tenneco	343	7	29°23'04"	94°47'33"	Yes	Mud
			11	29°23'08"	94°47'30"	Yes	Mud
			ND	29°23'02"	94°47'23"	Yes	Mud
			Header	29°23'00"	94°47'49"	Yes	Mud
			3	29°23'18"	94°47'42"	Yes	Mud
			3	29°23'10"	94°46'59"	Yes	Mud
			8	29°23'01"	94°47'10"	Yes	Mud
			13	29°23'00"	94°46'42"	Yes	Mud
			1	29°23'50"	94°47'08"	Yes	Mud
			ND	29°23'52"	94°47'07"	Yes	Mud
			5	29°23'21"	94°47'23"	Yes	Mud
			Platform	29°23'22"	94°47'23"	Yes	Mud
			2	29°23'26"	94°47'47"	Yes	Mud
			115-A Platform C	29°24'12"	94°50'43"	No	ND
			114-A Platform B	29°23'32"	94°51'23"	No	ND
114	29°23'32"	94°51'23"	Yes	Mud			
311	29°24'09"	94°49'47"	Yes	Mud			
324	29°26'15"	94°48'45"	Yes	Mud			
315	29°26'46"	94°48'48"	Yes	Mud			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Matagorda Bay</b>							
Lavaca Bay	Mesa	22	1	28°35'55"	96°33'30"	No	ND
		28	2	28°36'18"	96°32'48"	No	ND
	Neuman	27	2	28°37'24"	96°33'00"	No	ND
		24	ND	28°37'54"	96°33'06"	No	ND
		26	1	28°38'12"	96°32'18"	No	ND
			4	28°37'54"	96°32'06"	No	ND
			5	28°37'24"	96°31'48"	No	ND
		38	2	28°38'06"	96°31'36"	No	ND
		39	1	28°38'24"	96°31'18"	No	ND
		41	1	28°38'06"	96°30'54"	No	ND
		ND	ND	28°37'56"	96°31'06"	No	ND
		47	220T	28°33'06"	96°30'36"	Yes	Mud
	Mitchell	65	Platform	28°32'42"	96°28'42"	No	ND
			2	28°32'36"	96°28'36"	No	ND
			1	28°32'24"	96°29'06"	No	ND
	Manifold	33	Platform	28°33'36"	96°31'30"	Yes	Mud
	Exxon	55	4	28°34'54"	96°29'30"	No	ND
			14	28°34'18"	96°29'36"	No	ND
		46	ND	28°33'00"	96°29'42"	No	ND
	ND	ND	ND	28°37'18"	96°30'00"	No	ND
	ND	ND	ND	28°38'36"	96°32'30"	No	ND
	ND	ND	ND	28°33'12"	96°30'54"	Yes	Mud
	ND	ND	ND	28°34'24"	96°30'24"	No	ND
Keller Bay	Exxon	ND	ND	28°36'00"	96°28'45"	No	ND
	ND	ND	ND	28°36'18"	96°27'10"	No	ND
	ND	ND	ND	28°36'40"	96°27'30"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad	
Matagorda Bay (Cont'd.).	Alcoa	105	Platform	28°31'56"	96°24'30"	No	ND	
		105	11	28°31'56"	96°24'30"	Yes	Mud	
	Sonora		2	28°31'56"	96°24'30"	No	ND	
			10	28°31'56"	96°24'30"	Yes	Mud	
			1	28°31'56"	96°24'30"	Yes	Mud	
			3	28°31'56"	96°24'30"	Yes	Mud	
			6	28°31'56"	96°24'30"	No	ND	
			8	28°31'56"	96°24'30"	Yes	Mud	
			9	28°31'56"	96°24'30"	Yes	Mud	
			7	28°31'56"	96°24'30"	No	ND	
			4	28°31'56"	96°24'30"	No	ND	
		106	1	28°31'56"	96°24'30"	Yes	Mud	
			2	28°31'56"	96°24'30"	No	ND	
		119	4	28°31'56"	96°24'30"	Yes	Mud	
			9	28°31'56"	96°24'30"	Yes	Mud	
			ND		28°31'56"	96°24'30"	No	ND
			6	28°31'56"	96°24'30"	Yes	Mud	
			7	28°31'56"	96°24'30"	No	ND	
			8	28°31'56"	96°24'30"	Yes	Mud	
		Neuman	95	1	28°31'56"	96°24'30"	No	ND
ND	ND	ND	28°31'56"	96°24'30"	Yes	Mud		
ND	ND	ND	28°31'56"	96°24'30"	No	ND		
ND	ND	ND	28°31'56"	96°24'30"	Yes	Mud		
ND	ND	ND	28°31'56"	96°24'30"	Yes	Mud		
ND	ND	ND	28°31'56"	96°24'30"	No	ND		

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Matagorda Bay</b> (Cont'd.).							
Palacios	Pennzoil	ND	ND	28°34'30"	96°17'30"	No	ND
Ship Channel	Leum	195	ND	28°34'00"	96°17'30"	No	ND
	Convest	195	1	28°33'55"	96°17'30"	No	ND
		194	2	28°33'50"	96°17'20"	Yes	Mud
			3	28°33'40"	96°17'20"	Yes	Mud
			6	28°33'25"	96°17'50"	Yes	Mud
			5	28°33'10"	96°18'00"	Yes	Mud
		179	1	28°33'40"	96°18'30"	Yes	Mud
			2	28°33'30"	96°18'30"	Yes	Mud
		193	1	28°32'55"	96°17'35"	Yes	Mud
			2	28°32'55"	96°18'00"	Yes	Mud
			3	28°32'35"	96°18'10"	No	ND
		159	1	28°31'35"	96°21'00"	Yes	Mud
			4	28°31'10"	96°20'45"	No	ND
			3	28°31'10"	96°21'30"	No	ND
		146	1	28°30'50"	96°21'10"	Yes	Mud
		303	26	28°37'00"	96°15'24"	Yes	Mud
			3	28°36'54"	96°15'42"	Yes	Mud
	Matagorda	179	ND	28°33'40"	96°18'35"	Yes	Mud
	North American	193	1	28°32'30"	96°18'10"	Yes	Mud
	Ensearch	183	3	28°32'00"	96°18'00"	Yes	Mud
		182	1	28°32'10"	96°19'00"	Yes	Mud
		171	3	28°32'10"	96°19'50"	Yes	Mud
			4	28°31'35"	96°21'00"	Yes	Mud
	Lone Star Gas	171	ND	28°32'10"	96°19'30"	No	ND
		ND	ND	28°32'10"	96°19'40"	Yes	Mud
	Matagorda Exploration	303	ND	28°37'00"	96°15'24"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Matagorda Bay</b>							
(Cont'd.).							
Palacios Ship Channel (Cont'd.)	NRM	302	ND	28°37'24"	96°15'12"	Yes	Mud
		309	ND	28°38'18"	96°14'24"	Yes	Mud
			ND	28°38'24"	96°14'18"	No	ND
		ND	28°32'55"	96°18'10"	Yes	Mud	
		ND	28°30'00"	96°21'15"	No	ND	
		ND	28°36'06"	96°15'00"	No	ND	
	307	ND	28°36'24"	96°15'12"	Yes	Mud	
		ND	28°36'36"	96°15'12"	Yes	Mud	
		ND	28°38'06"	96°14'00"	No	ND	
		ND	28°37'54"	96°14'00"	Yes	Mud	
		ND	28°38'06"	96°14'18"	Yes	Mud	
		ND	28°38'12"	96°13'36"	No	ND	
		ND	28°37'42"	96°13'24"	No	ND	
		ND	28°37'40"	96°19'55"	Yes	Mud	
		ND	28°37'10"	96°19'20"	Yes	Mud	
Carancahua Bay	Neuman	226	1	28°41'36"	96°24'24"	No	ND
		260	2	28°41'36"	96°23'48"	No	ND
		259	2	28°40'58"	96°24'48"	No	ND
		239	1	28°40'54"	96°24'10"	Yes	Mud
		255	ND	28°40'20"	96°23'54"	Yes	Mud
	ND	28°39'40"	96°23'36"	No	ND		
Pass Cavallo	Vivienne ND	140	1	28°25'15"	96°21'30"	Yes	Sand
		ND	ND	28°25'15"	96°21'30"	Yes	Sand

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>San Antonio Bay</b>							
Grassy Point	Cities Service	67	ND	28°23'45"	96°46'30"	Yes	Mud
			3	28°23'40"	96°46'40"	Yes	Mud
			ND	28°24'10"	96°45'15"	Yes	Mud
			1	28°24'20"	96°45'15"	Yes	Mud
			5	28°23'50"	96°46'20"	No	ND
ND	102	ND	28°23'15"	96°44'45"	No	ND	
Mosquito Point	Southland Cities Service Texas Eastern ND	99 110 127 110	1	28°20'45"	96°45'10"	Yes	Mud
			Platform	28°18'55"	96°43'30"	Yes	Mud
			1	28°19'00"	96°43'10"	Yes	Mud
			ND	28°18'50"	96°43'30"	Yes	Mud
			Platform	28°17'25"	96°47'10"	No	ND
Dagger Point	Lamar Hunt Victoria Gas George Brown ND ND	59 59 79 ND ND	2	28°17'10"	96°46'50"	Yes	Mud
			1	28°16'45"	96°47'10"	Yes	Mud
			1	28°18'10"	96°45'50"	No	ND
			ND	28°17'20"	96°47'20"	Yes	Mud
			ND	28°17'25"	96°47'20"	Yes	Mud
Big Bird Island	Getty ND ND	95 94 94 81	2	28°17'20"	96°44'20"	Yes	Mud
			2	28°16'40"	96°44'15"	Yes	Mud
			ND	28°16'41"	96°44'10"	No	ND
			ND	28°16'45"	96°45'30"	Yes	Mud
			Neuman	85	1	28°13'10"	96°45'25"
Panther Point	Getty	90 115 116 117	2	28°13'05"	96°44'50"	Yes	Mud
			2	28°14'55"	96°43'15"	No	ND
			1-A	28°14'50"	96°42'30"	No	ND
			1-A	28°13'20"	96°44'50"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>San Antonio Bay</b>							
(Cont'd.).							
Panther Point (Cont'd.).	Corpus Christi Gas	116	Separator	28°14'40"	96°43'05"	No	ND
	ND	116	ND	28°14'15"	96°43'20"	Yes	Mud
South Pass	Mariner Neuman	164	1	28°17'20"	96°38'10"	No	ND
		172	1	28°17'05"	96°37'10"	No	ND
			2	28°17'15"	96°36'05"	No	ND
		175	3	28°16'50"	96°37'10"	No	ND
			4	28°16'40"	96°37'20"	No	ND
		176	2	28°16'55"	96°36'55"	No	ND
			4	28°17'05"	96°36'35"	No	ND
		177	2	28°17'55"	96°36'45"	No	ND
			4	28°18'05"	96°36'45"	No	ND
	ND	176	ND	28°17'25"	96°36'30"	No	ND
			ND	28°17'25"	96°36'50"	No	ND
	ND	177	ND	28°18'05"	96°36'35"	No	ND
			ND	28°17'50"	96°37'30"	No	ND
	ND	172	ND	28°17'30"	96°37'45"	No	ND
			ND	28°17'30"	96°37'25"	No	ND
			ND	28°17'30"	96°35'15"	No	ND
			ND	28°17'20"	96°35'20"	No	ND
			ND	28°17'10"	96°37'25"	No	ND
			ND	28°17'10"	96°37'26"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
San Antonio Bay (Cont'd.).	Grass Island	196	1	28°20'24"	96°32'03"	No	ND
			3	28°20'20"	96°32'20"	No	ND
			1	28°20'45"	96°32'30"	No	ND
			1	28°21'10"	96°31'54"	No	ND
			2	28°20'50"	96°31'50"	Yes	Sand-silt
			3	28°20'50"	96°31'30"	Yes	Sand-silt
	Senaca	210	1	28°21'30"	96°30'12"	No	ND
			Separator	28°21'45"	96°28'55"	No	ND
			1	28°21'45"	96°29'15"	No	ND
			2	28°21'35"	96°29'10"	No	ND
			3	28°21'40"	96°28'50"	No	ND
			5	28°21'40"	96°29'10"	No	ND
Saluria Bayou	216	215	6	28°21'40"	96°29'00"	No	ND
			7	28°21'21"	96°29'17"	No	ND
			8	28°21'30"	96°29'20"	No	ND
			9	28°21'35"	96°29'05"	No	ND
			10	28°21'28"	96°29'20"	No	ND
			12	28°21'33"	96°29'20"	No	ND
	217	201	1	28°21'26"	96°29'19"	No	ND
			1	28°20'35"	96°31'50"	No	ND
			2	28°20'40"	96°31'55"	No	ND
			ND	28°20'22"	96°31'18"	Yes	Sand
			ND	28°20'35"	96°31'30"	No	ND
			ND	28°22'05"	96°29'15"	No	ND
240	ND	240	ND	28°22'08"	96°29'12"	No	ND
			ND	28°22'00"	96°29'00"	No	ND
240	ND	240	ND	28°23'55"	96°25'26"	No	ND



Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Aransas Bay</b>							
Mesquite Bay	Mitchell Energy	13	Platform	28°09'00"	96°51'12"	No	ND
		14	ND	28°08'36"	96°51'20"	No	ND
		19	ND	28°09'00"	96°50'42"	No	ND
		20	ND	28°10'00"	96°50'54"	No	ND
		25	ND	28°09'24"	96°49'54"	No	ND
St. Charles Bay	Mitchell Energy	387	ND	28°08'15"	96°57'48"	No	ND
Copano Bay	Cities Service	96	ND	28°08'15"	96°57'48"	No	ND
			ND	28°08'15"	96°57'48"	No	ND
		97	Platform	28°08'15"	96°57'48"	No	ND
			ND	28°08'15"	96°57'48"	No	ND
			ND	28°08'15"	96°57'48"	No	ND
		6	ND	28°11'00"	97°02'00"	No	ND
	Longhorn Oil and Gas Corpus Operating Company	8	ND	28°11'00"	97°02'00"	No	ND
		9	ND	28°11'00"	97°02'00"	No	ND
			ND	28°11'00"	97°02'00"	No	ND
			ND	28°11'00"	97°02'00"	No	ND
		4	Platform	28°11'00"	97°02'00"	No	ND
			ND	28°11'00"	97°02'00"	No	ND
			ND	28°11'00"	97°02'00"	No	ND
		3	ND	28°11'00"	97°02'00"	No	ND
			ND	28°11'00"	97°02'00"	No	ND
		4	ND	28°11'00"	97°02'00"	No	ND
	Diversal		ND	28°11'00"	97°02'00"	No	ND
			ND	28°11'00"	97°02'00"	No	ND
			Platform	28°11'00"	97°02'00"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad			
Aransas Bay (Cont'd.).	Copano Bay (Cont'd.).	3	ND	28°11'00"	97°02'00"	No	ND			
		38	ND	27°08'45"	97°00'30"	No	ND			
	ND	Platform	84		28°05'00"	97°09'00"	No	ND		
			56	ND	28°05'00"	97°09'00"	No	ND		
			58	ND	28°05'00"	97°09'00"	No	ND		
			83	ND	28°05'00"	97°09'00"	No	ND		
			9	ND	28°11'00"	97°02'00"	No	ND		
			4	ND	28°11'00"	97°02'00"	No	ND		
			Redfish Bay	ND	219	ND	27°58'10"	97°04'54"	No	ND
				ND	224	ND	27°57'00"	97°05'00"	No	ND
ND	277	ND		27°54'12"	97°06'45"	No	ND			
Aransas Bay	Getty Oil	142	1	28°03'30"	96°59'20"	Yes	Mud			
		154	1	28°02'18"	96°59'18"	Yes	Mud			
		Platform	143	1	28°02'40"	96°59'20"	Yes	Mud		
			215	1	28°02'54"	96°59'36"	Yes	Mud		
			196	1	27°58'24"	97°02'30"	Yes	Mud		
		197	1	27°58'48"	97°03'00"	Yes	Mud			
		188	1	27°58'42"	97°02'25"	Yes	Mud			
		175	1	27°59'40"	97°01'00"	Yes	Mud			
		175	1	28°01'00"	97°01'00"	Yes	Mud			
		Platform	118	2	28°01'00"	97°00'50"	No	ND		
			118	2	28°05'40"	97°00'30"	No	ND		
			ND	1	28°05'10"	96°59'45"	No	ND		
		119	1	28°05'45"	97°00'05"	No	ND			
		117	1	28°04'50"	96°59'40"	No	ND			
		95	1	28°05'40"	96°59'26"	No	ND			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
Aransas Bay (Cont'd.).	Exxon	153	ND	28°02'30"	96°59'54"	Yes	Mud
			7	28°02'15"	96°59'54"	Yes	Mud
			2	28°02'18"	97°01'30"	Yes	Mud
	Hunt Oil	83	7	28°01'45"	97°01'30"	Yes	Mud
			1	28°07'45"	97°00'45"	No	ND
			2	28°07'45"	97°00'45"	No	ND
		81	3	28°07'45"	97°00'45"	No	ND
			1	28°06'30"	97°00'30"	No	ND
			2	28°06'30"	97°00'30"	No	ND
	Matagorda Exploration	84	1	28°07'45"	97°00'30"	No	ND
			2	28°07'45"	97°00'30"	No	ND
			3	28°07'45"	97°00'30"	No	ND
	Corpus Christi Oil and Gas	82	1	28°06'30"	97°01'00"	Yes	Mud
			ND	28°06'30"	96°54'30"	No	ND
			ND	28°07'00"	96°58'40"	No	ND
ND			28°07'05"	96°59'00"	No	ND	
ND			27°56'06"	97°01'20"	No	ND	
Genesis Petroleum Valero Trans. Co.	215	1	28°04'30"	97°00'45"	Yes	Mud	
		1	28°04'30"	97°00'30"	Yes	Mud	
		1	27°55'12"	97°03'20"	No	ND	
		Platform	27°58'30"	97°02'30"	No	ND	
Bass Enterprises	261	ND	27°55'40"	97°02'06"	No	ND	
		ND	27°55'00"	97°02'06"	No	ND	
		Platform	27°55'00"	97°01'55"	No	ND	
	264	N	27°55'42"	97°00'30"	No	ND	

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad	
<b>Arkansas Bay</b> (Cont'd.).	Houston Oil	170	1	28°01'10"	97°02'20"	Yes	Mud	
		189	3	28°01'00"	97°02'00"	Yes	Mud	
	ND	Platform	174		28°00'45"	97°01'30"	No	ND
			152	ND	28°02'00"	97°01'00"	Yes	Mud
			216	ND	27°58'15"	97°03'12"	Yes	Mud
			ND	ND	28°01'10"	97°02'00"	Yes	Mud
			ND	Platform	27°59'10"	97°00'45"	No	ND
			ND	ND	27°59'10"	97°01'45"	Yes	Mud
			ND	ND	27°59'45"	97°01'30"	Yes	Mud
			ND	ND	28°05'20"	97°00'00"	No	ND
<b>Corpus Christi</b> Bay	Mobil Oil Arco	ND	1	27°52'30"	97°24'15"	No	ND	
		ND	5	27°51'15"	97°24'50"	No	ND	
		ND	ND	27°51'05"	97°24'50"	No	ND	
		ND	1	27°50'59"	97°24'40"	No	ND	
		707	11	27°51'05"	97°25'30"	No	ND	
			12	27°51'15"	97°25'30"	No	ND	
			14	27°51'15"	97°25'55"	No	ND	
		694	2	27°51'30"	97°26'30"	Yes	Mud	
			1	27°51'20"	97°27'00"	No	ND	
		977	5	27°51'30"	97°26'30"	No	ND	
		688	16	27°51'30"	97°27'45"	No	ND	
			12	27°51'40"	97°27'50"	No	ND	
			11	27°51'50"	97°27'45"	No	ND	
			3	27°51'50"	97°27'55"	No	ND	

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad			
<b>Corpus Christi Bay (Cont'd.).</b>										
Nueces Bay (Cont'd.).	Arco	688	10	27°51'45"	97°28'05"	No	ND			
			13	27°51'40"	97°28'00"	No	ND			
			14	27°51'30"	97°27'55"	No	ND			
			15	27°51'20"	97°28'05"	No	ND			
			7	27°51'30"	97°28'05"	No	ND			
			9	27°51'30"	97°28'20"	No	ND			
			6	27°51'25"	97°28'20"	No	ND			
			4	27°51'25"	97°28'25"	No	ND			
			21	27°51'05"	97°28'30"	No	ND			
			ND	27°51'05"	97°28'30"	No	ND			
			3	27°50'55"	97°24'50"	No	ND			
			Sinclair Sanchez-O'Brien	ND	6	1	27°51'00"	97°24'30"	No	ND
						2	27°51'25"	97°24'30"	No	ND
			Forest Oil	786	ND	5	27°51'30"	97°22'30"	No	ND
						19	27°51'30"	97°22'30"	No	ND
						8	27°51'30"	97°22'30"	No	ND
						Header Platform	27°51'30"	97°22'30"	No	ND
			Cities Services Edwin Cox Goldkins	751 692 746 706	ND	2	27°51'30"	97°22'30"	No	ND
						3	27°51'30"	97°22'30"	No	ND
4	27°51'30"	97°22'30"				No	ND			
10	27°51'30"	97°22'30"				No	ND			
11	27°51'30"	97°22'30"				No	ND			
5	27°51'30"	97°22'30"				No	ND			
1	27°51'00"	97°26'30"				No	ND			
1	27°50'45"	97°27'00"				No	ND			
2	27°50'40"	97°26'55"				No	ND			
2	27°50'45"	97°26'30"				No	ND			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Corpus Christi Bay (Cont'd.).</b>							
Nueces Bay (Cont'd.).	Phillips	689	5	27°51'00"	97°28'10"	No	ND
			1	27°51'10"	97°28'25"	No	ND
		691	5	27°51'00"	97°28'30"	No	ND
	Eads	686	3	27°51'30"	97°28'45"	No	ND
			4	27°51'30"	97°28'50"	No	ND
		683	5	27°51'58"	97°28'58"	No	ND
			6	27°52'05"	97°28'58"	No	ND
	Sexton	723	1	27°50'55"	97°25'55"	No	ND
	ND	786	ND	27°51'30"	97°22'30"	No	ND
	ND	707	13	27°51'05"	97°26'00"	Yes	Mud
	ND	746	ND	27°50'50"	97°27'05"	Yes	Mud
	ND	689	2	27°51'15"	97°28'20"	No	ND
			3	27°51'00"	97°28'30"	No	ND
	684	Platform	27°51'75"	97°28'15"	No	ND	
	691	Platform	27°51'00"	97°28'30"	No	ND	
		8	27°50'50"	97°28'30"	No	ND	
	689-A	ND	27°50'00"	97°28'30"	No	ND	
	686	ND	27°51'25"	97°28'55"	No	ND	
		ND	27°51'45"	97°28'45"	No	ND	
	Platform	Platform	27°51'50"	97°28'50"	No	ND	
Corpus Christi Bay	Atlantic	470	470-2	27°44'55"	97°13'30"	Yes	Mud
	Richfield		7 Utilt	27°45'10"	97°13'10"	Yes	Mud
	Arco Oil and Gas	470	470-5	27°44'55"	97°13'30"	Yes	Mud
			Platform	27°45'00"	97°13'10"	No	ND
			470-1	27°45'10"	97°13'10"	Yes	Mud
		471	1	27°45'15"	97°13'10"	Yes	Mud

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Corpus Christi Bay (Cont'd.).</b>							
Corpus Christi Bay (Cont'd.).	Arco Oil and Gas	411	Platform	27°46'55"	97°10'35"	No	ND
		62	3X	27°47'25"	97°21'15"	Yes	Mud
		396	8	27°48'55"	97°10'00"	No	ND
			2	27°48'50"	97°09'57"	No	ND
		395	1	27°48'50"	97°11'00"	No	ND
	Highland Resource Inc.	18	1	27°48'30"	97°14'55"	Yes	Mud
	City Service Oil and Gas	50	50-1	27°46'35"	97°18'15"	Yes	Mud
		49	Platform	27°46'35"	97°18'20"	No	ND
			52-2	27°46'50"	97°18'45"	Yes	Mud
			ND	27°46'55"	97°18'50"	Yes	Mud
		52	1	27°46'00"	97°19'00"	Yes	Mud
	Gulf Oil	53	5L	27°46'50"	97°18'55"	No	ND
			2U	27°46'50"	97°18'55"	Yes	Mud
			3L	27°47'00"	97°18'50"	Yes	Mud
		48	6	27°47'00"	97°18'45"	Yes	Mud
			4U	27°46'55"	97°18'45"	Yes	Mud
			2	27°48'00"	97°19'30"	Yes	Mud
		54	1	27°48'00"	97°20'40"	Yes	Mud
		55	3	27°47'50"	97°21'50"	Yes	Mud
		53	3U	27°46'30"	97°19'30"	No	ND
	Sun Gas	62	Platform	27°47'25"	97°21'15"	No	ND
		61	1	27°47'50"	97°22'10"	Yes	Mud
		71	1	27°46'30"	97°21'05"	Yes	Mud
		424	7	27°47'15"	97°11'57"	Yes	Mud
	Getty	72	1	27°47'45"	97°22'50"	Yes	Sand-Shell
		444	Platform	27°48'30"	97°09'45"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad	
Corpus Christi Bay (Cont'd.).	Getty	444	1	27°47'20"	97°12'15"	Yes	Mud	
			Platform	27°47'10"	97°12'03"	No	ND	
			1	27°48'10"	97°11'55"	Yes	Mud	
		422	421-1	6	27°48'02"	97°12'00"	Yes	Mud
				4	27°47'50"	97°12'10"	Yes	Mud
				4	27°47'47"	97°12'08"	Yes	Mud
		445	443	5	27°47'30"	97°12'25"	Yes	Mud
				1	27°47'12"	97°12'12"	Yes	Mud
				1	27°47'05"	97°12'02"	Yes	Mud
		Corpus Christi Operating Co.	348 349	Platform	27°48'45"	97°08'57"	No	ND
				5	27°48'45"	97°09'03"	No	ND
				1	27°48'50"	97°09'00"	No	ND
		348 350		2	27°48'50"	97°08'55"	No	ND
				7	27°48'57"	97°08'45"	No	ND
				3	27°48'35"	97°08'35"	No	ND
	350		1	27°48'57"	97°09'45"	No	ND	
			3	27°49'05"	97°09'50"	No	ND	
			Platform	27°48'45"	97°09'45"	No	ND	
	Sun Exploration & Production Co.	397	6	27°49'35"	97°09'45"	No	ND	
			4	27°48'35"	97°10'05"	No	ND	
			Platform-2	27°48'45"	97°10'30"	No	ND	
	396	424 423	8	27°47'50"	97°11'50"	Yes	Mud	
			12	27°47'57"	97°11'57"	Yes	Mud	
			10	27°47'25"	97°12'10"	Yes	Mud	
	Energy Reserv. Co.	414	Platform	27°48'30"	97°11'00"	No	ND	
			3	27°48'27"	97°11'15"	Yes	Mud	
			7	27°48'15"	97°11'20"	Yes	Mud	
		416	2	27°48'50"	97°11'15"	No	ND	



Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Corpus Christi Bay (Cont'd.).</b>							
Corpus Christi Bay (Cont'd.).	Pan American Petroleum	414	4	27°48'25"	97°11'17"	Yes	Mud
	ND	18	ND	27°48'30"	97°14'55"	Yes	Mud
	ND	424	Platform	27°47'20"	97°11'23"	No	ND
	ND	398	ND	27°48'25"	97°08'30"	No	ND
	ND	422	Platform	27°48'05"	97°11'55"	No	ND
	ND	445	ND	27°47'30"	97°12'24"	Yes	Mud
	ND	444	Platform	27°48'30"	97°09'55"	No	ND
	ND	396	Platform	27°48'30"	97°09'59"	No	ND
	ND	396	Platform	27°48'45"	97°10'30"	No	ND
	ND	416	Platform	27°48'30"	97°10'30"	No	ND
	ND	414	ND	27°48'50"	97°11'20"	No	ND
	ND	414	ND	27°48'50"	97°11'20"	No	ND
	ND	423	5	27°48'20"	97°11'30"	Yes	Mud
	ND	423	6	27°48'10"	97°11'30"	Yes	Mud
	ND	423	ND	27°48'00"	97°11'50"	Yes	Mud
	ND	423	ND	27°48'00"	97°12'00"	Yes	Mud
<b>Shamrock Island</b>							
	Arco Oil and Gas	465	ND	27°44'30"	97°10'30"	Yes	Mud
			6502	27°44'30"	97°10'10"	Yes	Mud
			Platform	27°44'30"	97°10'05"	No	ND
			650-1	27°44'20"	97°10'20"	Yes	Mud
		466	Header	27°44'30"	97°10'10"	No	ND
		459	5906	27°44'45"	97°10'15"	Yes	Mud
		467	6701	27°44'45"	97°10'45"	Yes	Mud
		436	3606	27°44'50"	97°09'50"	No	ND
		438	Header	27°44'55"	97°10'05"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Corpus Christi Bay (Cont'd.).</b>							
Shamrock Island (Cont'd.).	Arco Oil and Gas	438	Tank	27°45'00"	97°10'30"	No	ND
			Battery				
			3702	27°44'50"	97°10'00"	No	ND
			Header	27°44'45"	97°10'30"	No	ND
			5805	27°44'45"	97°10'45"	Yes	Mud
			5806	27°44'45"	97°10'45"	Yes	Mud
			Tank	27°45'30"	97°10'50"	No	ND
			Battery				
			5701	27°45'10"	97°11'05"	Yes	Mud
			2702	27°45'50"	97°10'45"	Yes	Mud
Atlantic Richfield		466	D	27°46'40"	97°09'45"	Yes	Mud
			2704	27°46'30"	97°10'00"	Yes	Mud
			2603	27°46'28"	97°10'40"	Yes	Mud
			426-1	27°46'42"	97°10'20"	Yes	Mud
			6601	27°44'30"	97°10'10"	Yes	Mud
			6603	27°44'45"	97°10'15"	Yes	Mud
			Platform	27°44'45"	97°10'45"	No	ND
			Platform	27°44'45"	97°10'10"	No	ND
			3602	27°44'50"	97°09'50"	No	ND
			8	27°44'55"	97°09'45"	No	ND
City Service Oil and Gas		437	1	27°44'55"	97°09'55"	Yes	Mud
			Platform	27°45'00"	97°10'30"	No	ND
			428	27°46'10"	97°10'05"	Yes	Mud
			409	27°46'25"	97°09'25"	No	ND
			401	27°46'40"	97°09'25"	No	ND
			456	27°45'15"	97°11'20"	Yes	Mud
			440	27°45'10"	97°10'50"	Yes	Mud
			409	27°46'00"	97°10'05"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Corpus Christi Bay (Cont'd.).</b>							
Long Reef	Joseph Dawson	9	5	27°51'30"	97°15'45"	Yes	Mud-Sand
	Highland	21	1	27°49'30"	97°15'05"	Yes	Mud
	Resources Co.		ND	27°49'30"	97°15'05"	Yes	Mud
	Hamon Oil	16	1	27°50'15"	97°15'05"	No	ND
		15	1	27°50'15"	97°15'55"	Yes	Mud
	Cities Services	15	3LT	27°50'30"	97°15'15"	No	ND
Naval Air Station	Pend Oreille Oil and Gas	94	1	27°41'30"	97°14'05"	Yes	Mud
	McMoran	84	1	27°42'40"	97°15'25"	Yes	Mud
	Arco	457	5701	24°45'00"	97°04'55"	Yes	Mud
	ND	440	ND	27°45'00"	97°10'55"	Yes	Mud
East Flats	Realtos Energy Corporation	384	1	27°48'00"	97°07'30"	Yes	Mud-Sand
	Bass Enterprises	391	1	27°47'58"	97°08'05"	No	ND
	Corpus Christi Operation Co.	392	4	27°48'50"	97°08'10"	Yes	Mud-Sand
	ND	345	1	27°49'10"	97°08'10"	Yes	Mud-Sand
		390	ND	27°47'30"	97°08'00"	Yes	Mud-Sand
			ND	27°47'45"	97°08'00"	Yes	Mud-Sand
Wilson's Cut	Arco	432	2	27°44'30"	97°08'55"	No	ND
Shamrock Cove	Arco	430	Platform	27°45'00"	97°04'55"	Yes	Mud
		4		27°45'00"	97°09'30"	Yes	Mud
		2		27°45'30"	97°09'00"	Yes	Mud
		1		27°45'02"	97°09'50"	Yes	Mud
		5		27°45'05"	97°09'40"	No	ND
431		1	27°45'00"	97°09'05"	Yes	Mud	
			ND	27°45'05"	97°09'00"	No	ND
			3-Y	27°45'00"	97°08'50"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Corpus Christi Bay (Cont'd.).</b>							
Shamrock Cove (Cont'd.).	Arco	406	3	27°45'30"	97°08'30"	No	ND
			6	27°45'25"	97°08'25"	No	ND
			2	27°45'57"	97°08'25"	No	ND
			2	27°45'50"	97°08'30"	No	ND
			1	27°45'50"	97°08'55"	Yes	Mud
			3	27°45'55"	97°09'00"	No	ND
			2	27°45'57"	97°09'02"	Yes	Mud
			Header	27°45'55"	97°09'05"	No	ND
			Header	27°45'20"	97°09'50"	Yes	Mud
			2906	27°45'02"	97°09'57"	Yes	Mud
			3812	27°45'00"	97°10'00"	Yes	Mud
			16	27°45'05"	97°10'05"	No	ND
			<b>Redfish Bay</b>				
McMoran	343	3	27°50'25"	97°09'15"	No	ND	
		ND	27°50'20"	97°08'35"	No	ND	
Phoenix	341	ND	27°50'40"	97°09'00"	No	ND	
	342	ND	27°50'40"	97°09'00"	No	ND	
Brock	109	ND	27°50'20"	97°08'25"	No	ND	
	ND	ND	27°49'30"	97°10'15"	No	ND	
ND	ND	ND	27°49'45"	97°10'15"	No	ND	
	ND	ND	27°49'45"	97°10'10"	No	ND	
ND	ND	ND	27°49'45"	97°10'00"	No	ND	
	ND	ND	27°50'30"	97°09'15"	No	ND	
ND	ND	ND	27°50'40"	97°09'25"	No	ND	

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Upper Laguna Madre</b>							
Sulfur Road	Exxon	26	1	27°37'37"	97°16'36"	No	ND
		46	1	27°37'21"	97°16'08"	No	ND
		27	H3	27°38'09"	97°16'28"	No	ND
			J1	27°38'33"	97°16'33"	No	ND
		29	E8F	27°38'54"	97°16'10"	No	ND
			E8D	27°38'54"	97°16'10"	No	ND
			ND	27°39'05"	97°16'05"	No	ND
			E-1	27°38'54"	97°15'54"	No	ND
		30	D-15	27°39'10"	97°15'45"	No	ND
			D-8	27°39'13"	97°15'39"	No	ND
			F-5	27°39'13"	97°15'39"	No	ND
			F-3	27°39'13"	97°15'39"	No	ND
			E-9	27°39'13"	97°15'39"	No	ND
			ND	27°39'13"	97°15'39"	No	ND
			D	27°39'13"	97°15'39"	No	ND
			D-5	27°39'30"	97°15'50"	No	ND
		44	K-4	27°38'57"	97°15'17"	No	ND
Pita Island	Exxon	150	1	27°36'00"	97°17'01"	No	ND
		134	2	27°35'57"	97°17'36"	No	ND
Baffin Bay	Exxon	65	2	27°16'28"	97°37'59"	Yes	Mud
	Butts	68	1	27°16'34"	97°38'18"	No	ND
	Resources Co.	69	1	27°16'37"	97°38'10"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Upper Laguna Madre (Cont'd.).</b>							
Cayo Del Grulla (Drum Point)	Amoco	84	3	27°22'30"	97°42'00"	No	ND
			2	27°22'10"	97°41'35"	No	ND
		81	1	27°22'15"	97°01'45"	No	ND
			2	27°21'55"	97°42'00"	No	ND
	ND	81	ND	27°21'55"	97°02'00"	No	ND
			ND	27°21'50"	97°41'50"	No	ND
Boat Hole	Exxon	31	F-2	27°39'50"	97°15'50"	No	ND
			F-1	27°39'45"	97°15'45"	No	ND
		43	16	27°39'15"	97°15'15"	No	ND
			6	27°39'25"	97°15'10"	No	ND
			M-1	27°39'25"	97°15'10"	No	ND
	McMoran	41	2100	27°41'27"	97°15'15"	No	ND
			ESL				
	ND	61	ND	27°38'00"	97°13'30"	No	ND
Pure Oil Channel	Corpus Christi Oil and Gas	145	3	27°32'05"	97°19'45"	No	ND
	American	156	1	27°31'50"	97°18'27"	No	ND
	Petrofina	155	1	27°32'00"	97°18'25"	No	ND
		169	1AL	27°32'00"	97°18'00"	No	ND
			1	27°32'10"	97°17'50"	No	ND
			2	27°32'15"	97°17'50"	No	ND
	ND	155	ND	27°31'58"	97°18'25"	No	ND
	ND	170	ND	27°32'50"	97°17'30"	No	ND
	Colo Henderson	180	ND	27°31'30"	97°17'30"	No	ND

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad			
<b>Upper Laguna Madre (Cont'd.).</b>										
Landcut	Hughes-Hughes	311	1T	26°55'30"	97°28'05"	No	ND			
			69065							
			1C	26°55'30"	97°28'07"	No	ND			
			68316							
			54694	26°55'05"	97°29'30"	No	ND			
			2	26°54'55"	97°29'30"	No	ND			
			1	26°54'45"	97°29'30"	No	ND			
			ND	26°56'56"	97°29'54"	No	ND			
			ND	26°57'05"	97°29'25"	No	ND			
			ND	26°58'00"	97°27'27"	No	ND			
			ND	27°10'20"	97°23'59"	No	ND			
			ND	27°09'45"	97°24'15"	No	ND			
			ND	27°09'00"	97°26'30"	No	ND			
			Yarborough	Sun Oil	B236 233 228 229	ND	27°10'35"	97°23'30"	No	ND
						233-1	27°11'15"	97°23'30"	No	ND
1	27°12'10"	97°23'30"				No	ND			
1	27°11'50"	97°24'30"				No	ND			
ND	27°11'15"	97°24'30"				No	ND			
ND	27°12'00"	97°23'50"				No	ND			
<b>Petrus Operating Co.</b>										
	ND	232 228	ND	27°11'15"	97°24'30"	No	ND			
			ND	27°12'00"	97°23'50"	No	ND			

Table 5. (Cont'd.).

Bay system Location	Operator	State tract	Well number	Latitude	Longitude	Shell pad (Yes or No)	Bottom adjacent to shell pad
<b>Lower Laguna Madre</b>							
Three Islands	ND	ND	ND	26°16'20"	97°16'50"	No	ND
	ND	ND	ND	26°15'40"	97°16'42"	No	ND
	ND	ND	ND	26°15'40"	97°16'45"	No	ND
	ND	ND	ND	26°15'42"	97°16'43"	No	ND
Holly Beach	Hufco Petroleum	727	1	26°07'40"	97°16'50"	No	ND
	ND	ND	ND	26°09'45"	97°16'55"	No	ND
	ND	ND	ND	26°09'30"	97°16'50"	No	ND
	ND	ND	ND	26°08'25"	97°16'50"	No	ND
	ND	ND	ND	26°08'25"	97°16'58"	No	ND
	ND	ND	ND	26°08'30"	97°16'55"	No	ND
	ND	ND	ND	26°08'10"	97°16'35"	No	ND
Port Mansfield Northeast	Hughes-Hughes	441	1	26°37'47"	97°24'50"	No	ND
	ND	ND	2	26°37'50"	97°24'45"	No	ND
	ND	ND	ND	26°37'45"	97°25'00"	No	ND



Table 6. Sites of offshore petroleum structures (including sub-sea installations) in the Texas Territorial Sea as of 1981.

Operator	Block number	Latitude	Longitude
Tenneco	18	29°31'10"	93°51'09"
	19	29°31'10"	93°51'09"
Amoco	341	28°05'40"	93°51'59"
	755	27°44'04"	96°42'55"
	981	27°19'22"	97°18'25"
C & K	19	29°39'17"	93°59'16"
		29°39'25"	93°59'26"
Centex	10	29°33'23"	93°59'21"
		29°33'40"	93°59'44"
		29°33'36"	93°56'53"
		29°33'07"	93°59'58"
		29°33'35"	94°00'06"
		29°32'59"	94°00'12"
Transco	10	29°33'52"	94°00'17"
Mitchell	22	29°32'31"	94°03'11"
		29°32'41"	94°03'37"
Arco	23	29°30'53"	94°05'59"
	24	29°31'41"	94°06'18"
29°31'57"		94°06'38"	
29°31'42"		94°06'39"	
29°31'31"		94°06'40"	
29°31'32"		94°06'41"	
29°31'24"		94°06'43"	
29°31'04"		94°06'44"	
29°30'50"		94°06'45"	
29°31'36"		94°06'53"	
28°31'35"		94°06'56"	
29°31'14"		94°07'06"	
29°33'43"		94°08'20"	
29°32'31"		94°08'21"	
29°32'51"		94°08'25"	
29°32'41"		94°09'31"	
29°33'06"		94°08'33"	
29°32'59"		94°09'47"	
29°32'22"	94°08'49"		
29°32'45"	94°09'00"		
7	29°33'15"	94°07'46"	
	29°33'43"	94°08'20"	

Table 6. (Cont'd.).

Operator	Block number	Latitude	Longitude	
McMoran	775	29°35'49"	94°11'54"	
	630	28°05'40"	96°39'37"	
	663	28°00'26"	96°43'44"	
	659	28°02'31"	96°43'50"	
	662	28°00'06"	96°44'08"	
	660	28°02'43"	96°44'16"	
	691	27°56'13"	96°48'41"	
	1064		26°29'02"	97°04'27"
			26°28'01"	97°04'33"
	859		27°20'45"	97°08'15"
			27°20'02"	97°08'16"
		901	27°38'49"	97°09'53"
			27°39'18"	97°10'10"
	Kilroy	30	29°29'57"	94°12'44"
29°29'11"			94°12'53"	
98		29°21'57"	94°28'22"	
		29°21'53"	94°28'34"	
		29°20'49"	94°28'57"	
367		29°21'44"	94°30'24"	
	28°42'11"	95°27'04"		
King	30	29°28'12"	94°13'04"	
		29°28'45"	94°13'15"	
		29°28'45"	94°13'18"	
	54	29°28'03"	94°13'26"	
PRC	30	29°29'17"	94°13'46"	
		29°28'26"	94°15'10"	
Mesa	55	29°27'24"	94°17'32"	
	100	29°23'02"	94°35'06"	
	103	29°20'13"	94°36'46"	
	102	29°20'24"	94°38'00"	
		29°20'20"	94°38'03"	
	409	28°33'22"	95°41'17"	
Union	55	29°26'38"	94°17'41"	
		29°26'09"	94°18'15"	
Superior	139	29°16'49"	94°18'51"	
Rutherford	104	29°19'37"	94°32'23"	
	310	28°48'27"	95°15'01"	
	334	28°47'49"	95°16'09"	
	335		28°47'10"	95°17'07"
			28°43'14"	95°18'19"
			28°46'44"	95°19'40"
			28°47'05"	95°19'42"

Table 6. (Cont'd.).

Operator	Block number	Latitude	Longitude
Rutherford (Cont'd.).	366	28°42'17"	95°24'53"
		28°41'57"	95°25'36"
	340	28°43'43"	95°25'24"
Sun	147	29°28'38"	94°32'50"
		29°28'32"	94°33'09"
Houston	101	29°23'36"	94°37'13"
		29°23'39"	94°37'56"
	182	29°24'09"	94°38'02"
	406	28°35'07"	95°51'01"
	479	28°27'55"	95°57'47"
	481	28°27'18"	96°02'07"
	526	28°18'26"	96°13'43"
Shell	102	29°20'27"	94°39'31"
	405	28°36'09"	95°44'47"
		28°38'14"	95°44'47"
		28°36'45"	95°44'54"
		28°34'14"	95°47'12"
	407	28°33'17"	95°48'53"
	440	28°32'45"	95°49'17"
		28°33'18"	95°49'49"
		28°32'18"	95°50'29"
	441	28°30'36"	95°57'56"
446	28°30'09"	95°59'46"	
Texoma	245	29°03'11"	94°55'36"
Phoenix	303	28°51'59"	95°11'54"
	309	28°48'31"	95°18'27"
	335	28°49'17"	95°19'02"
Corpus Christi	2786	28°55'39"	95°12'16"
	278	28°55'44"	95°12'16"
	374	28°39'15"	95°30'55"
		28°38'43"	95°31'33"
	369	29°42'15"	95°32'04"
		28°43'57"	95°32'04"
		28°42'47"	95°32'10"
	520	28°22'17"	96°09'02"
		28°22'04"	96°09'39"
		28°22'45"	96°09'54"
28°23'12"		96°10'45"	

Table 6. (Cont'd.).

Operator	Block number	Latitude	Longitude
Corpus Christi (Cont'd.).	772	28°11'31"	96°33'30"
	597	28°10'47"	96°33'45"
	721	28°11'35"	96°34'03"
	596	28°10'47"	96°36'07"
	628	28°06'21"	96°39'22"
	629	28°05'41"	98°42'50"
	659	28°00'40"	96°43'26"
Pelto	98	29°21'37"	94°28'24"
Mobil	310	28°50'26"	95°14'23"
	487	28°25'19"	96°03'03"
		28°24'57"	96°03'12"
		28°25'31"	96°03'38"
	1048	26°31'06"	97°06'14"
		26°30'03"	97°04'22"
	1047	26°31'12"	97°09'32"
1066	26°28'51"	97°10'22"	
881	27°16'20"	97°14'35"	
	27°15'19"	97°14'46"	
Kirby	340	28°44'54"	95°24'47"
	663	28°17'20"	96°23'34"
	629	28°03'16"	96°43'03"
GPE	369	28°42'15"	95°31'36"
	368	29°42'44"	95°31'50"
Millican	485	28°40'35"	95°45'42"
Zapata	446	28°29'13"	95°56'55"
		28°29'24"	95°57'07"
Monsanto	445	28°29'52"	95°59'23"
		28°29'51"	95°59'34"
		28°29'41"	96°00'00"
		28°29'29"	96°00'17"
		28°29'59"	96°00'39"
Superior	444	28°29'42"	96°04'54"
	483	28°22'19"	96°08'48"

Table 6. (Cont'd.).

Operator	Block number	Latitude	Longitude
Getty	526	28°19'56"	96°12'00"
Cities Services	526	28°19'58"	96°12'02"
	773	27°37'48"	97°07'01"
		27°37'57"	97°07'48"
Crown	525	28°19'03"	96°15'56"
Oxy	734	28°09'02"	96°39'04"
	721	27°52'09"	96°58'39"
		27°51'48"	96°58'48"
	851	27°51'10"	96°59'02"
Buttes	961	27°56'14"	96°48'45"
Exxon	750	27°44'22"	96°58'32"
	1003	27°14'25"	97°17'29"
Energy Reserves	747	27°45'15"	96°59'28"
Occidental	749	27°44'51"	96°59'39"
Patrick	774	27°37'52"	97°03'41"
Cabot	773	27°37'55"	97°06'20"
		27°39'07"	97°06'33"
		27°38'51"	97°07'46"
Reynolds	903	27°38'24"	97°08'02"
Samedan	818	27°30'24"	97°09'44"
		27°31'01"	97°09'50"
		27°30'48"	97°10'06"
		27°31'31"	97°10'23"
		27°30'47"	97°10'49"
	820	27°29'30"	97°10'18"
Gulf	942	27°30'08"	97°11'02"
Marathon	841	27°22'02"	97°12'49"
Tomlinson	840	27°26'40"	97°12'59"
Chevron	53	27°27'42"	97°15'20"

Figure 1. Texas bay systems.

