UNITED STATES GOVERNMENT
MEMORANDUM

June 6, 2005

To: Public Information (MS 5034)

From: Plan Coordinator, FO, Plans Section (MS 5231)

Subject: Public Information copy of plan

- Control # - N-08445
- Type - Initial Exploration Plan
- Lease(s) - OCS-G22163 Block - 783 Mustang Island Area
- Operator - Spinnaker Exploration Company, L.L.C.
- Description - Wells A and B
- Rig Type - JACKUP

Attached is a copy of the subject plan.

It has been deemed submitted as of this date and is under review for approval.

Elmo Cooper
Plan Coordinator

Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
WELL/A	G22163/MU/783	500 FNL, 330 FEL	G22163/MU/783
WELL/B	G22163/MU/783	2500 FNL, 100 FEL	G22163/MU/783

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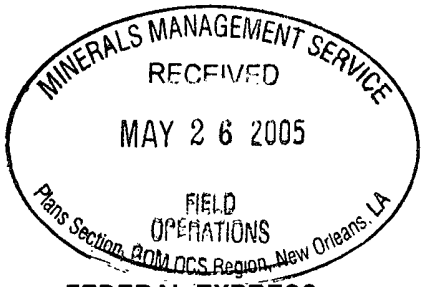
NOTED-SCHEXNAILDRE

SPINNAKER EXPLORATION



May 24, 2005

FEDERAL EXPRESS

Minerals Management Service
Gulf of Mexico - OCS Region
1201 Elmwood Park Boulevard
New Orleans, LA 70123-2394

CONTROL No. N-8445
REVIEWER: Elmo Cooper
PHONE: (504) 731-7810

Attention: Mr. Don Howard, MS 5200

Re: Mustang Island Block 783
OCS-G 22163
Offshore, Texas
Initial Exploration Plan

Gentlemen:

In accordance with the guidelines set forth in 30-CFR 250.203, Spinnaker Exploration Company, L.L.C. (Spinnaker) is submitting for your favorable review and approval a proposed Initial Exploration Plan (EP) for Mustang Island Block 783.

Enclosed you will find nine (9) copies of the subject plan; five (5) of which contain "Proprietary Data" that are exempt from disclosure under the privacy Act (5 U.S.C. 552a) and the implementing regulations (43 CFR Part 2 Subpart D). Four (4) copies are considered "Public Information."

Drilling operations are expected to commence on or before **July 15, 2005**.

Our $3,000,000 Area wide Development Bond number is RLB-0001151 and our $300,000 OCS Right-Of-Way Grant Bond number is B-7748. Spinnaker Exploration Company, L.L.C. acquired these bonds June 25, 1999 and September 25, 1998, respectively.

Review and approval of our EP at your earliest convenience is greatly appreciated.

Should you require any additional information, please feel free to contact me at 713/356-7534.

Sincerely,

Spinnaker Exploration Company, L.L.C.

Thomas G. Becnel
Regulatory Affairs Manager

PUBLIC INFORMATION

enclosures

SPINNAKER EXPLORATION COMPANY, L.L.C.

INITIAL EXPLORATION PLAN
LEASE OCS-G 22163
MUSTANG ISLAND BLOCK 783

SECTION A

CONTENTS OF PLAN

LEASE DESCRIPTION/ACTIVITY

Lease OCS-G **22163** was acquired by Spinnaker at the Western Gulf of Mexico Lease Sale **177** on **August 2000**. The subject lease was issued with an effective date of **November 1, 2000**, and primary term ending date of **October 31, 2005**.

Spinnaker is the designated operator of the subject oil and gas lease.

OBJECTIVE

This Initial Exploration Plan provides for the drilling and suspension two (2) exploratory wells in **Mustang Island Block 783** to test the target sand(s) as detailed in **Section C** of this plan. Install a net guard and buoy with a dive boat at each well location.

SCHEDULE

The following schedule details the proposed drilling and suspension of the wells provided for in this plan:

Activity	Estimated Start Date	Estimated Completion Date
Drill & MLA Well A & Install a Net Guard & Buoy	07-15-05	08-28-05
Drill & MLA Well B & Install a Net Guard & Buoy	08-29-05	10-12-05

This schedule is tentative in the meaning of Title 30 CFR 250.203-1. Additional exploratory drilling must be predicated upon the need to further define the structures and/or reservoir limitations.

WELL LOCATIONS

The approximate location of the subject wells in this Initial Exploration Plan is shown on the table and plat included in **Section J** of this Plan.

DESCRIPTION OF DRILLING UNIT

Offshore exploratory activities are carried out from mobile drilling rigs. The five most common types of mobile rigs employed for exploratory drilling offshore are submersible drilling rig, semi-submersible drilling rigs, jack-up drilling rig, drill ships, and drill barges.

The proposed well will be drilled and completed with a typical jack-up rig. Rig specifications will be made a part of the appropriate Applications for Permit to Drill. **(Spinnaker will not be using a Gorilla Class rig.)**

Safety features on the MODU will include well control, pollution prevention, welding procedures, and blowout prevention equipment as described in Title 30 CFR Part 250, Subparts C, D, E, G and O; and as invoked by the MMS, Environmental Protection Agency and the U.S. Coast Guard. The appropriate life rafts, life jackets, ring buoys, etc., as prescribed by the U.S. Coast guard, will be maintained on the facility at all times.

In accordance with Title 30 CFR Part 250, Subpart O, an operator is to ensure that Well Control Training is provided for lessee and contractor personnel engaged in oil and gas operations in the OCS Gulf of Mexico.

Supervisory and certain designated personnel on-board the facility will be familiar with the effluent limitations and guidelines for overboard discharges into the receiving waters, as outlined in the NPDES General Permit GMG290000.

The operator is charged with the responsibility to not create conditions that will pose unreasonable risk to the public health, life, property, aquatic life, wildlife, recreation, navigation, commercial fishing, or other uses of the ocean. Some of these measures include installation of curbs, gutters, drip pans, and drains on drilling deck areas to collect all contaminants and debris.

The MMS is required to conduct onsite inspections of offshore facilities to confirm operators are complying with lease stipulations, operating regulations, approved plans, and other conditions as well as to assure safety and pollution prevention requirements are being met. The National Potential Incident of Noncompliance (PINC) List serves as the baseline for these inspections. The MMS also inspects the stockpiles of equipment listed in the operator's approved Oil Spill Response Plan that would be used for the containment and cleanup of hydrocarbon spills.

DESCRIPTION OF HYDROCARBON TRAPPING ELEMENTS
(Proprietary Data)

DESCRIPTION OF STRUCTURES

Following a successful well(s), Spinnaker will install a net guard and buoy over wells 'A' and 'B' and leave them mud line suspended. Typical net guard and buoy drawings are enclosed as **Attachments A-1** and **A-2**.

DESCRIPTION OF VESSELS

Work Boat Length – 180'; 3500 HP; Fuel Capacity – 80,000 gallons

Crew Boat Length – 120'; 2000 HP; Fuel Capacity – 45,000 gallons

Jack-up Rig Rating – 350'; Fuel – 21,000-25,000 gallons
Engine Oil – 650-850 Gallons
Hydraulic Oil – 400-500 Gallons
Gear Oil – 200-300 Gallons
BOP Fluid – 200-300 gallons
1 ea. 500 Gallon used oil tank

Dive Boat – 150'; 2000 HP; Fuel Capacity – 45,000 gallons

Diesel fuel – API gravity - 32°

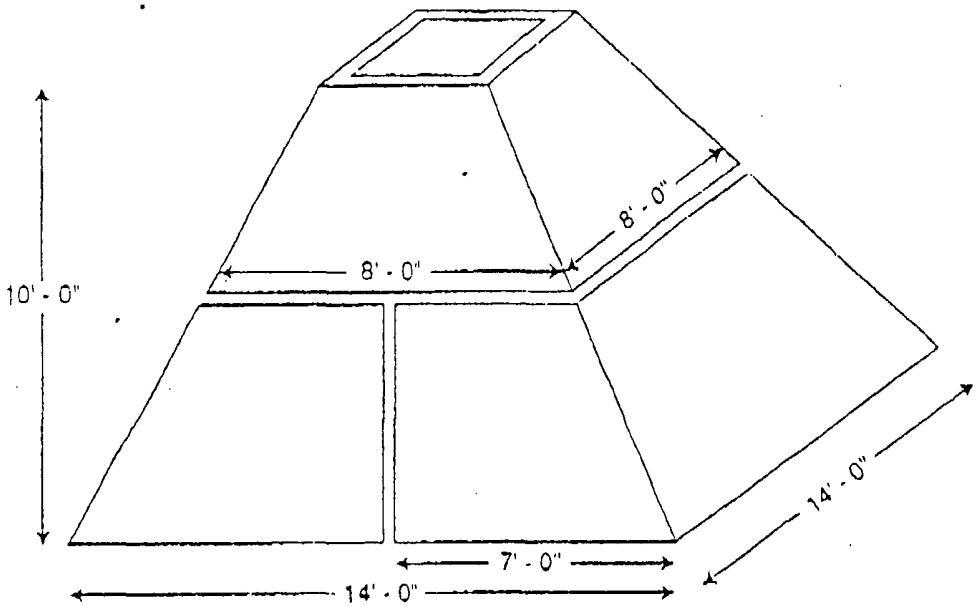
EFFECTIVE • ECONOMICAL • STURDY

HTK SUBSEA NETGUARD

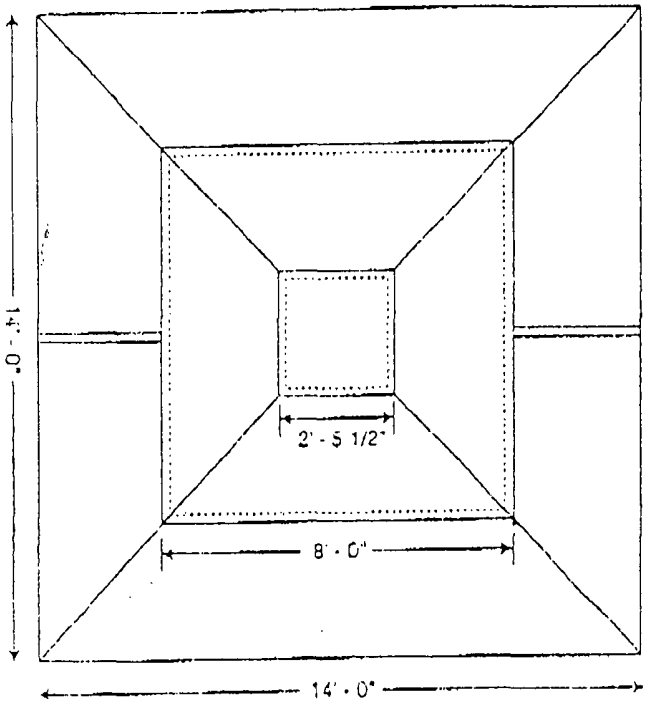
Dimensions

(Assembled):

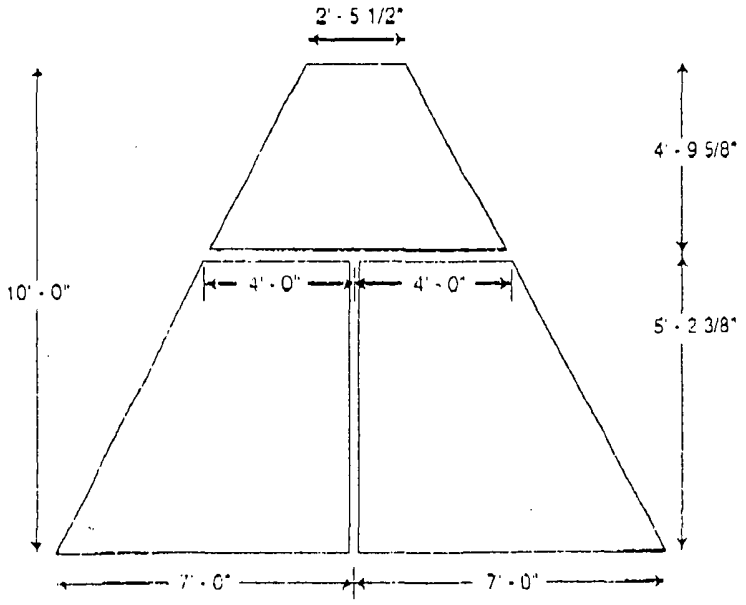
- Netguard
  14' x 14' x 10' High
- Mini-Netguard
  8' x 8' x 5' High (No assembly required)



ISOMETRIC VIEW

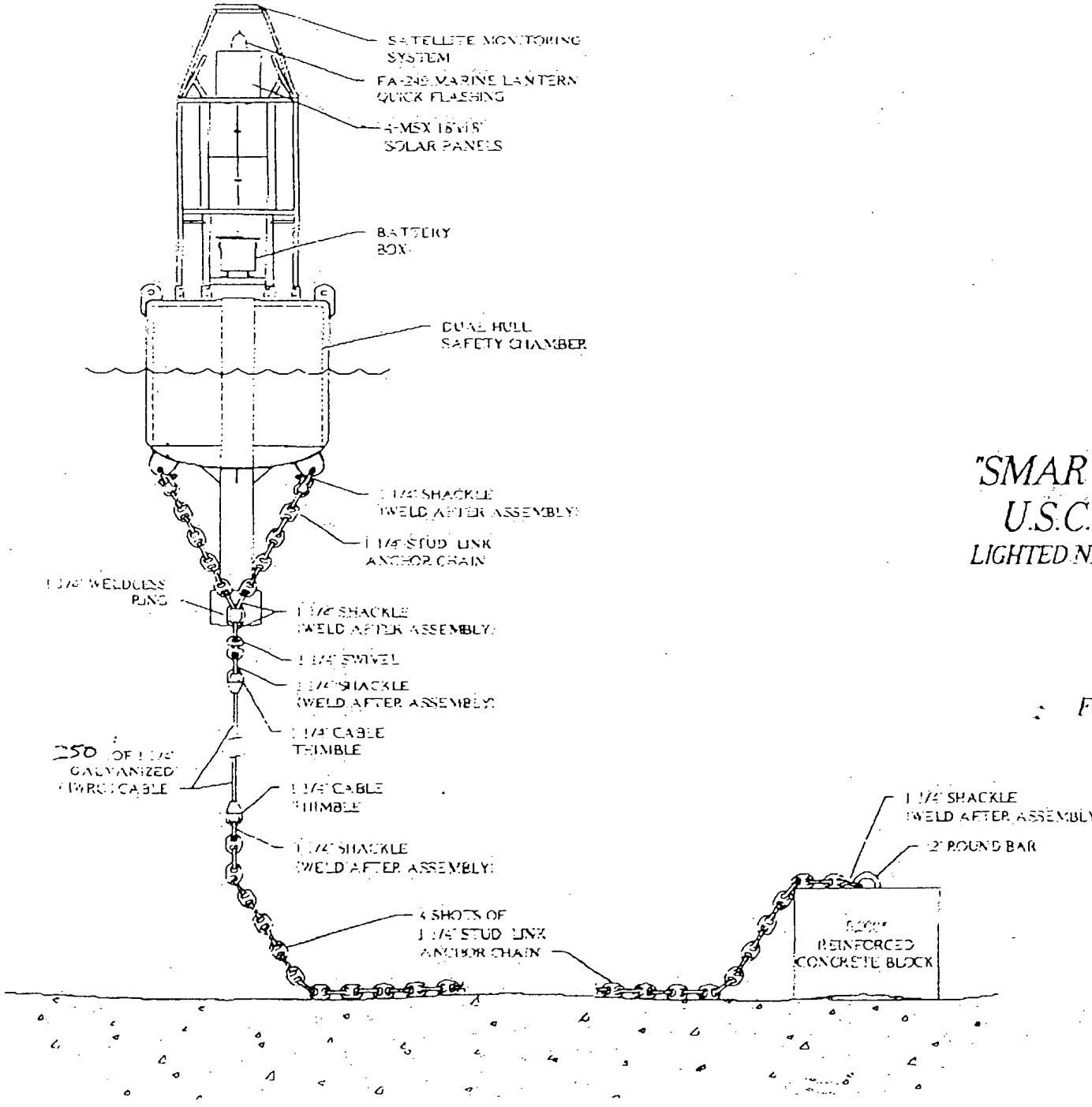


TOP VIEW



SIDE VIEW

Attachment A-1



"SMART LOUIE BUOY"
U.S.C.G. APPROVED
LIGHTED NAVIGATIONAL AID BUOY

FOR ILLUSTRATION ONLY - NOT TO SCALE

Superior
Offshore Services, Inc.

MOORING ARRANGEMENT FOR MODIFIED 820 # 2 BUOY
"SMART LOUIE BUOY"

Attachment A-2

SECTION B

GENERAL

CONTACT

Inquiries may be made to the following authorized representative:

Thomas G. Becnel
Spinnaker Exploration Company, L.L.C.
1200 Smith Street, Suite 800
Houston, Texas 77002
713/356-7534
tbecnel@spinexp.com

PROSPECT NAME

Fawn Creek

NEW OR UNUSUAL TECHNOLOGY

Spinnaker does not propose utilizing any new or unusual technology during the proposed drilling and suspension operations.

BONDING

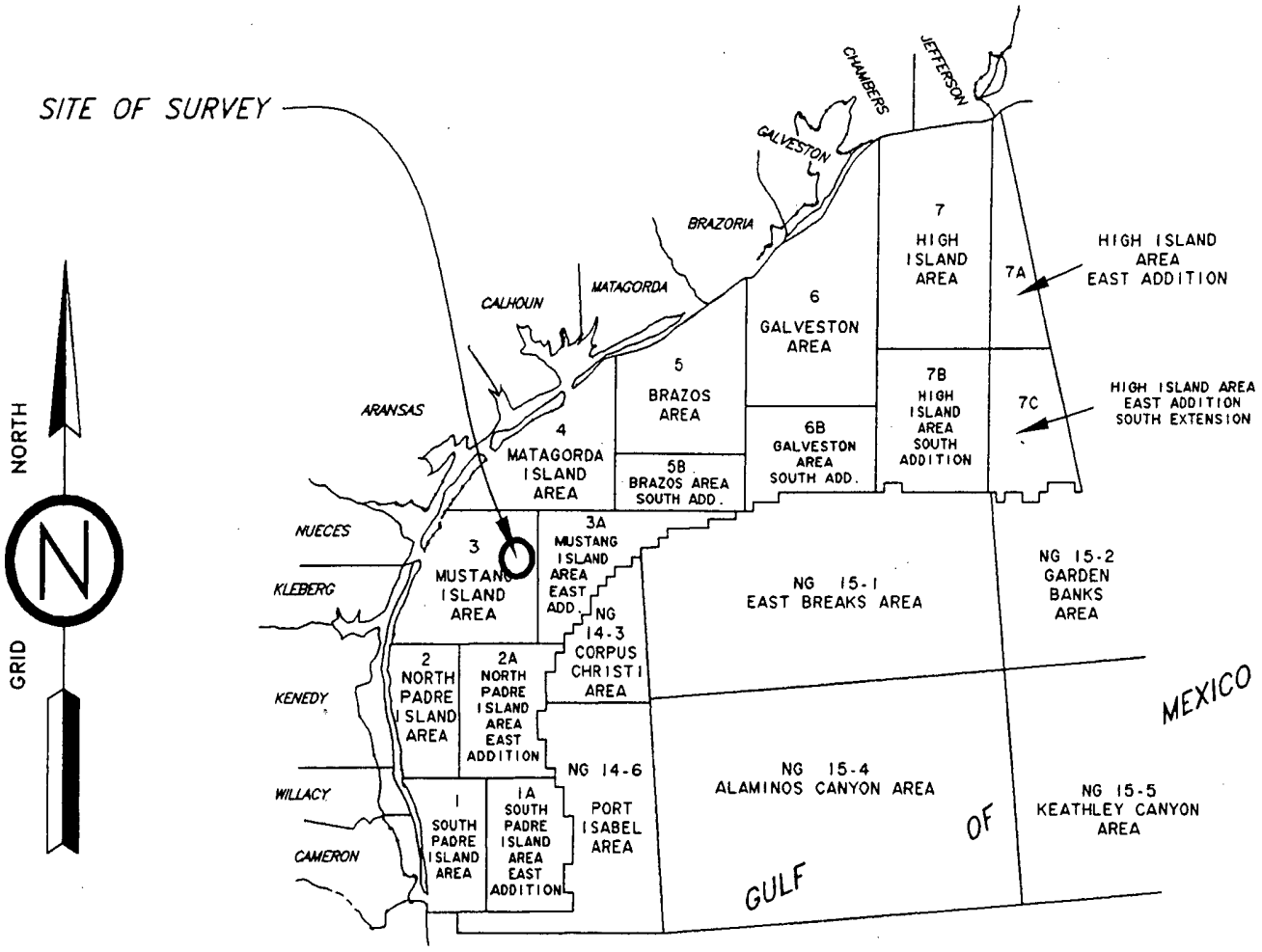
In accordance with Notice to Lessees (NTL) 99-G04 which implements the requirements for general lease surety bonds contained in 30 CRR 256, Subpart I, Spinnaker has a $3,000,000 Area Wide Development Bond on file with the Minerals Management Service.

Additionally, NTL 98-18N addresses how MMS has the authority to require additional security to cover full plugging, site clearance and other associated lease liabilities which may be in excess of the general lease surety bonds. These activities are reviewed on a case-by-case basis, and if deemed warranted, Minerals Management Service will provide such notification to Spinnaker.

ONSHORE SUPPORT BASE

Mustang Island Block 783 is located approximately **29.9** miles from the nearest Texas shoreline and approximately **29.9** miles from the onshore support base located in **Harbor Island, Texas**. A Vicinity Plat showing the location of **Mustang Island Block 783** relative to the shoreline and onshore base is included as **Attachment B-1**.

TEXAS GULF COAST INDEX
M.M.S. O.C.S. LEASING AREAS



VICINITY MAP

INSTRUMENTATION:

DIFFERENTIAL GPS NAVIGATION SYSTEM
24/208 kHz ECHO SOUNDER
SIDE SCAN SONAR (SMS 260)
MAGNETOMETER
3.5 kHz SUBBOTTOM PROFILER
HIGH RESOLUTION SEISMIC SYSTEM;
100 CU. IN. AIR GUN

29.9 miles to
Harbor Island
Nearest Shoreline

Attachment B-1

GENERAL NOTES:

X, Y COORDINATES, IN FEET, AND BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM (LAMBERT), SOUTH ZONE (NAD 27) CLARKE 1866.

SURVEY PERFORMED BY K C OFFSHORE IN OCTOBER, 1993.

UPDATED ARCHAEOLOGICAL & HAZARD REPORT SURVEY LOCATION MAP BLOCK 783 MUSTANG ISLAND AREA OFFSHORE TEXAS	SPINNAKER EXPLORATION COMPANY, L.L.C. **Thales GeoSolutions, Inc.** 36499 Perkins Rd. Prairieville, Louisiana 70769 Tel: 225-673-5881 Fax: 225-673-5877 THALES

DRN. ELA	PREP. ELA	CAL. TAO	APP. TAO	FILE NO. 02-1073-018	
CHK. JSL	CHK. JSL	CHK. JSL	DATE: 3-18-2002	FIG. NO. 1	PAGE 2

Spinnaker will utilize onshore facilities located in **Harbor Island, Texas**, which will serve as a port of debarkation for supplies and crews. No onshore expansion or construction is anticipated with respect to the proposed activities.

This base is capable of providing the services necessary for the proposed activities. It has 24-hour service, a radio tower with a phone patch, dock space, equipment, and supply storage base, drinking and drill water, etc. This base will also serve as a loading point for tools, equipment and machinery to be delivered to the MODU, crew change and transportation base, and temporary storage for materials and equipment. These facilities typically include outdoor storage, forklift and crane service, dock, trailer facilities and parking, as well as 24-hour service.

Support vessels and travel frequency during drilling and completion activities are as follows:

Support Vessel & Aircraft	**Drilling & TA Operations Trips Per Week**
Crew Boat	5
Supply Boat	3
Helicopter	1

Personal vehicles will be the main means of transportation to carry rig personnel form various locations to the staging areas. They will then be transported to the MODU by the crew boat. A helicopter will be used to transport small supplies and, on occasion, personnel in emergency situations. The most practical, direct route permitted by the weather and traffic conditions will be utilized.

NEW ONSHORE CONSTRUCTION OR EXPANSION OF SUPPORT FACILITIES

The proposed operations do not mandate any immediate measures for land acquisition or expansion of the existing onshore base facilities.

Dredging and filling operations will not be required for the operations, nor will any new construction or expansion of onshore facilities be involved for the operations proposed in this Initial Exploration Plan.

LEASE STIPULATIONS

Oil and gas exploration activities on the OCS are subject to stipulations developed before the lease sale; these are attached to the lease instrument, as necessary, in the form of mitigating measures. The MMS is responsible for ensuring full compliance with lease stipulations.

Stipulation No.2 - Spinnaker will file a notification with the Military Warning Area W-228 in Corpus Christi, TX with regard to vessel and aircraft traffic in MWA W-228 prior to conducting operations on Mustang Island Block 783. Attachment B-2.

SPINNAKER EXPLORATION

May 24, 2005

Certified Mail
Return Receipt Requested

Chief, Naval Air Training
Attn: Code N332 (ATC & Space Mgt)
Naval Air station
Corpus Christi, Texas 78419-5100

Attention: **W-228**
Staff Sergeant Gina Turner
Master Sergeant Kane

Re: **Mustang Island Area**
Block 783, 0CS-G 22163
Initial Exploration Plan

Ladies\Gentlemen:

In accordance with the guidelines set forth in Stipulation **2** (**c**) of the lease agreement for **Mustang Island Block 781**, Spinnaker is notifying you of our estimated vessel and aircraft traffic proposed in the above referenced Exploration Plan. The proposed frequency and mode of travel is given in the table below:

Support Vessel & Aircraft	**Drilling Operations Trips Per Week**
Crew Boat	5
Supply Boat	3
Helicopter	1

Enclosed are the well location(s) where the proposed activity will take place.

Drilling operations are expected to commence on or about **July 15, 2005**.

Should you require any additional information, please feel free to contact me at 713/356-7534.

Sincerely,

Spinnaker Exploration Company, L.L.C.

Thomas G. Becnel
Regulatory Affairs Manager

enclosures

	Surface Location
Lease\Well	OCS G 22163 No.1 (A)
Area Name	Mustang Island
Block No.	783
Blockline Departures (in feet)	N/S Departure 500 FNL
	E/W Departure: 330 FEL
Lambert X-Y coordinates	X: **2,616,845.32**
	Y: **729,049.75**
Latitude/ Longitude	Latitude: 27-39-34.533
	Longitude: 96-35-39.777

	Surface Location
Lease\Well	OCS G 22163, (B)
Area Name	Mustang Island
Block No.	783
Blockline Departures (in feet)	N/S Departure: 2500 FNL
	E/W Departure: 100 FEL
Lambert X-Y coordinates	X: **2,617,075.32**
	Y: **727,049.75**
Latitude/ Longitude	Latitude: 27-39-14.695
	Longitude: 96-35-37.555

SECTION C
G & G INFORMATION

STRUCTURE CONTOUR MAPS

Current structure maps drawn to the top of the prospective hydrocarbon accumulations showing the surface and bottom hole locations of wells 'A' and 'B' are included in this section as **Attachments C-1, C-2 and C-3**.

INTERPRETED SEISMIC LINES

Included as **Attachment C-4** is a copy of the letter being submitted under separate cover this date depicting the migrated and annotated deep seismic lines within 500 feet of the surface locations being proposed in this plan.

GEOLOGICAL STRUCTURE CROSS SECTION

Interpreted geological cross section depicting the proposed well locations and the geologic name and age of the anticipated structures is included as **Attachment C-5 and C-6**. This cross section corresponds to each seismic line being submitted under separate cover.

SHALLOW HAZARDS REPORT

An evaluation of the potential shallow hazards and an assessment of possible cultural resources in the referenced block were conducted by KC Offshore during **October 1993**. Enclosed is a copy of your letter dated February 7, 2002 approving the use of the data obtained from this survey.

Our review of the high resolution geophysical survey data and archaeological assessment prepared by Thales Geosolutions, Inc. in March of 2002 and Tesla Offshore, LLC in May 2005 indicates that there are no hazards near surface locations A or B.

The purpose of the survey was to prepare an archaeological assessment and hazard study across **Mustang Island Block 783** to evaluate the geologic conditions and inspect for potential hazards or constraints to lease exploration and development.

Three (3) copies of the shallow hazards report, with the updated anomaly map and archaeological analysis, are being submitted under separate cover to the Minerals Management Service to clear the locations proposed under our initial EP for **Mustang Island Block 783** (Lease OCS-G **22163**) 'A' and 'B' locations. The purpose of the analysis is to evaluate the geologic conditions and inspect for potential hazards or constraints to lease development.

SHALLOW HAZARDS ANALYSIS

A shallow hazards analysis has been prepared for the proposed surface location, evaluating seafloor and subsurface geologic and manmade features and conditions, and is included as **Attachment C-9**.

HIGH RESOLUTION SEISMIC LINES

Included as **Attachment C-4** is a copy of the letter being submitted under separate cover this date depicting the annotated shallow hazards lines within 500 feet of the surface locations being proposed in this Plan.

STRATIGRAPHIC COLUMN

A generalized biostratigraphic/lithostratigraphic column from the seafloor to the total depth of the proposed well is included as **Attachment C-7**.

TIME VERSUS DEPTH TABLE(S)

Included as **Attachment C-8** are the appropriate tables providing seismic time versus depth for the proposed well location in areas where there is no well control.

DESCRIPTION OF HYDROCARBON TRAPPING ELEMENTS (Proprietary Data)

ESTIMATED DEPTH OF GEOPRESSURE

The depth of geopressure is estimated to be approximately 9,600' TVD based on offset well control around proposed Location "A" and Location "B". Therefore, neither well is expecting geopressure at proposed total depth.

HYDROGEN SULFIDE

In accordance with Title 30 CFR 250.417, Spinnaker requests that **Mustang Island Block 783** be classified by the Minerals Management Service as an area where the absence of hydrogen sulfide has been confirmed.

The basis for this determination is through the evaluation of **EXXON Mobil's Mustang Island Block 783 G 3028 No.1** well, which was drilled to (10257' TVD) the stratigraphic equivalents of the Target Sands proposed in this Plan.

SPINNAKER EXPLORATION COMPANY, L.L.C.
MUSTANG ISLAND BLOCK 783
OCS-G 22163
SHALLOW HAZARDS ANALYSIS

An evaluation of the potential shallow hazards and an assessment of possible cultural resources in the referenced block were conducted by KC Offshore during **October 1993**. Enclosed is a copy of your letter dated February 7, 2002 approving the use of the data obtained from this survey.

Our review of the high resolution geophysical survey data and archaeological assessment prepared by Thales Geosolutions, Inc. in March of 2002 and Tesla Offshore, LLC in May 2005 indicates that there are no hazards near surface locations A or B.

Mustang Island Block 783 is within a high probability zone for prehistoric shipwrecks, which requires a 50-meter survey line spacing with 100% sonar coverage. There were no shipwrecks detected within the surveyed area on the block outside the fairway. There were three (3) magnetic anomalies of unknown origin located within the surveyed area in the southwest corner of the block. None of the three (3) anomalies are near our proposed locations 'A' and 'B' in the northeast corner of Block 783. There were no side scan sonar contacts on the block within the surveyed area. There are three (3) pipelines crossing the west side of Block 783. They are not near our locations. Most of the block is taken up by a shipping fairway. Our proposed locations 'A' and 'B' are over 2900' and 1200', respectively, from the shipping fairway crossing Block 783.

Based on the reviewed data, published research and our interpretations, the probability of disturbing the presence of significant prehistoric cultural resources in the surveyed portion of Block 783, Mustang Island Area is assessed as poor.

All due caution will be exercised while conducting drilling and/or coring operations at these locations. Spinnaker will utilize differential GPS to position the rig. The rig will approach our proposed locations for positioning purposes from the southwest, well within the surveyed area.

Thomas G. Becnel
Regulatory Affairs Manager

SECTION D

BIOLOGICAL AND PHYSICAL INFORMATION

The seafloor disturbing activities proposed in this Plan will be at a water depth of **160-162** feet at locations **A** and **B**. The water depth ranges from **158-168** feet to the southeast across Mustang Island Block 783.

MAPS

Submitted under separate cover are the maps prepared using high-resolution seismic information and/or 3-D seismic data to depict bathymetry, seafloor and shallow geological features and the surface location of each proposed wells and structure.

ANALYSIS

Submitted under separate cover is the analysis of seafloor features and areas that could be disturbed by the activities proposed in this Plan.

TOPOGRAPHIC INFORMATION

MMS and the National Marine Fisheries Service (MNFS) have entered into a programmatic consultation agreement for Essential Fish Habitat that requires that no bottom disturbing activities, including anchors or cables from a semi-submersible drilling rig, may occur within 500 feet of the no-activity zone of a topographic feature. If such proposed bottom disturbings are within 500 feet of a no activity zone, the MMS is required to consult with the NMFS.

The activities proposed in this Plan are not affected by a topographic feature.

PINNACLE REEF TRENDS

MUSTANG ISLAND BLOCK 783 is not a Pinnacle Trend Block; therefore the Live Bottom (Pinnacle Trend) Lease Stipulation does not apply.

SHALLOW HAZARDS AND ARCHAEOLOGICAL ASSESSMENT

Tesla Offshore's Archaeological and Shallow Hazards Analysis for loactions 'A' and 'B' are included as **Attachments D-1(A) AND D-1(B).**

Tesla Offshore, LLC
36499 Perkins Road
Prairieville, Louisiana 70769
Telephone: (225) 673-2163
Fax: (225) 744-3116

May 24, 2005

Minerals Management Service (MS 5230)
Gulf of Mexico OCS Region
1201 Elmwood Park Blvd.
New Orleans, LA 70123-2394

RE: Spinnaker Exploration Company, L.L.C.
Proposed OCS-G 22163 Well 'A' Surface Location
Block 783, Mustang Island Area
Archaeological & Shallow Hazard Analysis

Dear Staff:

Spinnaker Exploration Company proposes to drill the OCS-G 22163 Well 'A' from a surface location at:

- ***500' FNL & 330' FEL of Block 783, Mustang Island Area***

The MMS authorized Spinnaker Exploration Company to use existing geophysical data covering the entire lease portions outside Shipping Safety Fairway that bisects the block into NE and SW portions (MMS letter February 7, 2002 Ref. MS 5231). Thales GeoSolutions updated the existing data set acquire by KC Offshore in 1993 with 50-meter primary line spacing and 900-meter tie lines. Spinnaker Exploration Company operates the lease and selected Tesla Offshore, LLC to prepare this shallow hazard analysis and archaeological assessment of the proposed drill site to comply with **NTL No. 98-20 and NTL No. 2002-G01** from the Minerals Management Service. Geophysical record copies are enclosed for the magnetometer, side scan sonar, subbottom profiler, echo sounder, and near trace seismic sections from the survey line nearest the proposed well site as required by the MMS in **NTL No. 2003-G17**.

- ***Water depth*** is 160 feet surrounding the proposed drill site, and there were no topographic irregularities along the seafloor.
- ***Seafloor soils*** are silt (63%), clay (18%), and sand (19%) that appeared smooth and free of irregularities on the side scan records.
- ***Identified man-made features*** include P&A #1 well 6,000' west of the proposed well site. There were no pipelines or other wells in the NE/4 of Block 783 at the time of the fieldwork.
- ***Magnetic anomalies*** were not recorded in the NE portion of the 50-meter grid although two (2) anomalies were detected in the SW portion. The anomalies wioll not impact rig moves or drilling. Sonar data recorded drag scars on the seafloor, and the seafloor was clear of shipwrecks or obstructions.

Attachment A-1(A)

- ***Subbottom Data*** showed a fault downthrown to the SE approximately 1,800' WNW of the propose site at the closest point. The proposed wellbore will not intersect the fault within the upper second of data. Analog seismic sections showed amplitude anomalies 300' west of the proposed location at depths of 1,686' below sea level and 1,920' below sea level. The proposed well bore will not intersect the bright spots, and normal drilling precautions will be employed when intersecting the intervals near the amplitude anomalies BML.

The operator has identified the primary hazards to rig movements, anchor deployments, and drilling. Subbottom profiles indicated that the near-seafloor layers at the proposed well site exhibit low probability for the occurrence of prehistoric archaeological features.. The proposed drilling will not disturb any shipwrecks based on the geophysical data within the lease.

The proposed well site, P&A well site, lease block and Fairway boundaries will be marked with appropriate marine survey equipment during rig moves and drilling to comply with the **MMS On-Site Requirements specified in NTL No. 98-20, Section IV, Item B.** In lieu of using buoys as stipulated in Item B-1, the operator requests MMS approval to mark potential hazards with best available technology using computer graphic screens that are integrated to DGPS positioning units aboard the drilling rig and all support vessels.

In further compliance with **Item B-2**, a map at a scale of 1:12,000 will be provided to key personnel on the drilling rig and anchor handling vessels. The field map will depict the location of the proposed well, any proposed anchor patterns, all pipelines in other parts of the lease, abandoned well sites, and Fairway boundaries. No magnetic anomalies will be disturbed by rig placement or drilling at the proposed well location.

Spinnaker Exploration Company, L.L.C. and subcontractors will apply the safest and best available technologies during rig moves and drilling operations.

Yours truly,

Robert J Floyd

Robert J. Floyd Ph.D.
Chief Geoscientist
Marine Archaeologist

Tesla Offshore, LLC
36499 Perkins Road
Prairieville, Louisiana 70769
Telephone: (225) 673-2163
Fax: (225) 744-3116

May 24, 2005

Minerals Management Service (MS 5230)
Gulf of Mexico OCS Region
1201 Elmwood Park Blvd.
New Orleans, LA 70123-2394

RE: Spinnaker Exploration Company, L.L.C.
Proposed OCS-G 22163 Well 'B' Surface Location
Block 783, Mustang Island Area
Archaeological & Shallow Hazard Analysis

Dear Staff:

Spinnaker Exploration Company proposes to drill the OCS-G 22163 Well 'B' from a surface location at:

- ***2,500' FNL & 100' FEL of Block 783, Mustang Island Area***

The MMS authorized Spinnaker Exploration Company to use existing geophysical data covering the entire lease portions outside Shipping Safety Fairway that bisects the block into NE and SW portions (MMS letter February 7, 2002 Ref. MS 5231). Thales GeoSolutions updated the existing data set acquire by KC Offshore in 1993 with 50-meter primary line spacing and 900-meter tie lines. Spinnaker Exploration Company operates the lease and selected Tesla Offshore, LLC to prepare this shallow hazard analysis and archaeological assessment of the proposed drill site to comply with **NTL No. 98-20 and NTL No. 2002-G01** from the Minerals Management Service. Geophysical record copies are enclosed for the magnetometer, side scan sonar, subbottom profiler, echo sounder, and near trace seismic sections from the survey line nearest the proposed well site as required by the MMS in **NTL No. 2003-G17**.

- ***Water depth*** is 162 feet surrounding the proposed drill site, and there were no topographic irregularities along the seafloor.
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- ***Magnetic anomalies*** were not recorded in the NE portion of the 50-meter grid although two (2) anomalies were detected in the SW portion. The anomalies wioll not impact rig moves or drilling. Sonar data recorded drag scars on the seafloor, and the seafloor was clear of shipwrecks or obstructions.

Attachment D-1(B)

- ***Subbottom Data*** showed a fault downthrown to the SE approximately 3,150' NW of the propose site at the closest point. The proposed wellbore will not intersect the fault within the upper second of data. Analog seismic sections showed an amplitude anomaly 150' south of the proposed location at a depth of 2,323' below sea level. Processed 3-D data have been used to assess the correct relative amplitude of the anomaly, and normal drilling precautions will be employed when intersecting the interval of the amplitude anomaly.

The operator has identified the primary hazards to rig movements, anchor deployments, and drilling. Subbottom profiles indicated that the near-seafloor layers at the proposed well site exhibit low probability for the occurrence of prehistoric archaeological features. The proposed drilling will not disturb any shipwrecks based on the geophysical data within the lease.

The proposed well site, P&A well site, lease block and Fairway boundaries will be marked with appropriate marine survey equipment during rig moves and drilling to comply with the **MMS On-Site Requirements specified in NTL No. 98-20, Section IV, Item B.** In lieu of using buoys as stipulated in Item B-1, the operator requests MMS approval to mark potential hazards with best available technology using computer graphic screens that are integrated to DGPS positioning units aboard the drilling rig and all support vessels.

In further compliance with **Item B-2**, a map at a scale of 1:12,000 will be provided to key personnel on the drilling rig and anchor handling vessels. The field map will depict the location of the proposed well, any proposed anchor patterns, all pipelines in other parts of the lease, abandoned well sites, and Fairway boundaries. No magnetic anomalies will be disturbed by rig placement or drilling at the proposed well location.

Spinnaker Exploration Company, L.L.C. and subcontractors will apply the safest and best available technologies during rig moves and drilling operations.

Yours truly,

Robert J Floyd

Robert J. Floyd Ph.D.
Chief Geoscientist
Marine Archaeologist

SECTION E
Wastes and Discharge Information

The Minerals Management Service (MMS), U. S. Coast Guard (USCG) and the U.S. Environmental Protection Agency (EPA) regulate the overboard discharge and/or disposal of operational waste associated with drilling, completing, testing and/or production operations from oil and gas exploration and production activities.

Minerals Management Service regulations contained in Title 30 CFR 250.300 require operators to "prevent the unauthorized discharge of pollutants into offshore waters". These same regulations prohibit the intentional disposal of "equipment, cables, chains, containers, or other materials" offshore. Small items must be stored and transported in clearly marked containers and large objects must be individually marked. Additionally, items lost overboard must be recorded in the facility's daily log and reported to MMS as appropriate.

U. S. Coast Guard regulations implement the Marine Pollution Research and Control Act (MARPOL) of 1987 requiring manned offshore rigs, platforms and associated vessels prohibit the dumping of all forms of solid waste at sea with the single exception of ground food wastes, which can be discharged if the facility is beyond 12 nautical miles from the nearest shore. This disposal ban covers all forms of solid waste including plastics, packing material, paper, glass, metal, and other refuse. These regulations also require preparation, monitoring and record keeping requirements for garbage generated on board these facilities. The drilling contractor must maintain a Waste Management Plan, in addition to preparation of a Daily Garbage Log for the handling of these types of waste. MODU's are equipped with bins for temporary storage of certain garbage. Other types of waste, such as food, may be discharged overboard if the discharge can pass through 25-millimeter type mesh screen. Prior to off loading and/or overboard disposal, an entry will be made in the Daily Garbage Log stating the approximate volume, the date of action, name of the vessel, and destination point.

U. S. Environmental Protection Agency regulations address the disposal of oil and gas operational wastes under three Federal Acts. The Resource Conservation and Recovery Act (RCRA) which provides a framework for the safe disposal of discarded materials, regulating the management of solid and hazardous wastes. The direct disposal of operational wastes into offshore waters is limited under the authority of the Clean Water Act. And, when injected underground, oil and gas operational wastes are regulated by the Underground Injection Control program. If any wastes are classified as hazardous, they are to

be properly transported using a uniform hazardous waste manifest, documented, and disposed at an approved hazardous waste facility.

SECTION E
Wastes and Discharge Information

A National Pollutant Discharge Elimination System (NPDES) permit, based on effluent limitation guidelines, is required for any discharges into offshore waters. The major discharges from offshore oil and gas exploration and production activities include produced water, drilling fluids and cuttings, ballast water, and uncontaminated seawater. Minor discharges from the offshore oil and gas industry include drilling-waste chemicals, fracturing and acidifying fluids, and well completion and workover fluids; and from production operations, deck drainage, and miscellaneous well fluids (cement, BOP fluid); and other sanitary and domestic wastes, gas and oil processing wastes, and miscellaneous discharges.

Spinnaker has requested coverage under the Region VI NPDES General Permit GMG290000 for discharges associated with exploration and development activities **Mustang Island Block 783** and will take applicable steps to ensure all offshore discharges associated with the proposed operations will be conducted in accordance with the permit.

Composition of Solid and Liquid Wastes

The major operational solid waste in the largest quantities generated from the proposed operations will be the drill cuttings, drilling and/or completion fluids. Other associated wastes include waste chemicals, cement wastes, sanitary and domestic waste, trash and debris, ballast water, storage displacement water, rig wash and deck drainage, hydraulic fluids, used oil, oily water and filters, and other miscellaneous minor discharges.

These wastes are generated into categories, being solid waste (trash and debris), nonhazardous oilfield waste (drilling fluids, nonhazardous waste including cement and oil filters), and hazardous wastes (waste paint or thinners).

The type of discharges included in this permit application allow for the following effluents to be discharged overboard, subject to certain limitations, prohibitions and recordkeeping requirements.

Drilling Fluids - Generally is discharged overboard at a volume and rate dependent upon hole size intervals and downhole conditions. Volume is estimated from both pump rate and length of time, or from tank capacity if a bulk discharge occurs. The discharge of drilling fluids is classified as an intermittent discharge, with an estimated average flow of 250 barrels a day, but no more than 1000 bbls. per hour based on permit limitations.

SECTION E
Wastes and Discharge Information

Drill Cuttings - The drill cuttings are separated from the drilling fluid through the use of solids control equipment. Cuttings discharge rates and volumes will vary during the duration of the well, and are measured by estimating the volume of hole drilled. Constituents of drill cuttings include sand, shale and limestone from the wellbore. The discharge of drilling cuttings is classified as an intermittent discharge, with an estimated average flow of 100 barrels a day.

Excess Cement - Occasionally, excess slurry will be generated while cementing casing strings and/or setting of wellbore plugs and annulus jobs. The volume of cement discharges is calculated by subtracting the volume inside the well from the total volume pumped down hole.

Well Treatment, Completion or Work-Over Fluids - These fluids are circulated down the wellbore, and sometimes discharged overboard or captured in tanks for disposal at a onshore site. The discharge of these fluids is classified as an intermittent discharge, with an estimated average flow of 300 barrels a day. The volume of cement discharges is calculated by subtracting the volume inside the wellbore from the total volume pumped down hole.

Sanitary and Domestic Waste - The discharge of sanitary and domestic waste is classified as an intermittent discharge, with an estimated average flow of 40 barrels a day. An equal amount of domestic waste (from sinks, galleys, showers and laundries) is normally discharged.

Deck Drainage - Consisting of rainwater and wash water with no free oil, the volume of deck drainage is calculated by multiplying average rainfall by exposed deck area.

Uncontaminated Water - This included non-contact cooling water, discharges from the firewater system, and freshwater maker blow-down. Ballast water, which is sometimes used to maintain the stability of a drilling rig, might also be discharges. These discharges are classified as miscellaneous discharges in the NPDES permit application.

SECTION E

Wastes and Discharge Information

Produced Water from Well Testing - This discharge would occur during the production test conducted after drilling and completing the wells. Much of the produced water would be vaporized as the gas is flared and/or burned. Excess water would be processed in a gravity separator and discharged in accordance with the limitations and conditions of the applicable NPDES General Permit.

In accordance with all Federal, State and Local rules and regulations, wastes which cannot be discharged overboard, will be transported to an appropriate treatment or disposal site.

Overboard Discharges

The wastes detailed in ***Attachments E-1*** *and* ***E-3*** are those wastes generated by our proposed activities and are released into the receiving waters of the Gulf of Mexico at the lease site.

Disposed Wastes

The wastes detailed in ***Attachment E-2*** are those wastes generated by our proposed activities that are disposed of by means of offsite release, injection, encapsulation, or placement at either onshore or offshore permitted locations for the purpose of returning them back to the environment.

Water Base and Oil Base Mud System Components and Additives are listed in ***Attachments E-4*** *and* ***E-5***.

Wastes and Discharges Information

The information provided in Table 1 and Table 2 are estimates only and are based on information and plans known at the time this plan was prepared. The type of waste, amount and rate to be discharged, recycled, or disposed of and the recycle and disposal locations may change from time to time during the project life.

Table 1—Discharges

All discharges will be in accordance with EPA's general NPDES permit GMG 290000

Type of Waste Approximate Composition	Amount to be Discharged (volume or rate)	Maximum Discharge Rate	Treatment and/or Storage, Discharge Location and Discharge Method
Water-based drilling fluids	2,000 bbl/well	Bulk discharge of mud in casing following TA	MU783 Discharge overboard
Drill cuttings associated with water-based fluids	2,000 bbl/well	Bulk discharge of mud in casing following TA	MU783 Discharge overboard
Drill cuttings associated with synthetic drilling fluids	None	None	None
Muds, cuttings and cement at the seafloor	2,000 bbl/well	Bulk discharge of mud in casing following TA	MU783 Discharge overboard
Produced water	40,000 bbl/day (maximum)	40,000 bbl/day	MU783 Treat for oil and grease and discharge overboard
Sanitary wastes	20 gals/person/day	Not applicable	MU783 Chlorinate and Discharge overboard
Domestic wastes	30 gal/person/day	Not applicable	MU783 Remove floating solids and discharge overboard

Type of Waste Approximate Composition	Amount to be Discharged (volume or rate)	Maximum Discharge Rate	Treatment and/or Storage, Discharge Location and Discharge Method
Deck drainage	0-4,000 bbl/day Dependant upon rainfall	Not applicable	MU783 Remove oil and grease and discharge overboard
Well treatment, workover or completion fluids	300 bbls/day	300 bbls/day during these types of operations	MU783 Remove oil and grease and discharge overboard
Uncontaminated fresh or seawater	Varied	Not applicable	MU783 Discharge overboard
Desalinization Unit water	700 bbl/day	Not applicable	MU783 Discharged Overboard
Uncontaminated bilge water	None	None	None
Uncontaminated ballast water	10,000 bbls	400 gal/min (pump capacity)	MU783 Discharged overboard
Misc discharges to which treatment chemicals have been added	Varied	Not applicable	MU783 Discharged Overboard
Other misc discharges	Varied	Not applicable	MU783 Discharged Overboard

Table 2
Disposal Table—Wastes Not Discharged

Type of Waste Approximate Composition	Amount	Rate per Day	Name/Location of Disposal Facility	Treatment and/or Storage, Transport and Disposal Method[4]
Spent oil-based drilling fluids and cuttings	7000	100 bbl/day (average)	Newpark[1]	Store in cuttings box and transport by boat to shorebase
Spent synthetic-based drilling fluids	None	None	None	None
Oil-contaminated produced sand	200 lbs/yr	0.6 bbl/day	Newpark[1]	Store in cuttings box and transport by boat to shorebase
Waste Oil	NA	NA	NA	NA
Norm-contaminated wastes	1 ton	Not applicable	Newpark[1]	Transport to a transfer station via dedicated barge
Trash and debris	1000 ft^3	3 ft^3	Tesoro dock Harbor Island	Transport in storage bins on boats to shorebase
Chemical product wastes	100 bbls	2 bbl/day	Envirosolutions[2] or Total Recycling Technologies Inc.[3]	Transport in barrels on boat to shorebase
Workover fluids-Not Discharged	150 bbls	2 bbl/day	Vendor or Newpark[1]	Transport in barrels on boats or barge to shorebase

[1] Newpark Transfer Stations to be utilized are located in Galvestion TX and Port Arthur TX
[2] Envirosolutions is located in Baytown, TX.
[3] Total Recycling Technologies is located in Mexia, TX.
[4] Waste to be disposed of or recycled is normally brought to the shorebase by work boats. From the shorebase, it is usually transported to the disposal or recycling center by truck.

SECTION E

QUANTITIES AND RATES OF DISCHARGES

WELL	DEPTH	HOLE SIZE	QUANTITY (BBLS)	MAX. DISCHARGE RATE
A	500	26	350	Maximum 1000 bbls/hour
	1000	18-5/8	200	Maximum 1000 bbls/hour
	4500	13-3/8	450	Maximum 1000 bbls/hour
	10466	9-5/8	550	Maximum 1000 bbls/hour
B	500	26	350	Maximum 1000 bbls/hour
	1000	18-5/8	200	Maximum 1000 bbls/hour
	4500	13-3/8	450	Maximum 1000 bbls/hour
	9912	9-5/8	500	Maximum 1000 bbls/hour

TOTAL BARRELS - 3050 bbls

DRILLING MUD COMPONENTS

COMMON CHEMICAL OR CHEMICAL TRADE NAME	DESCRIPTION OF MATERIAL
Aluminum Stearate	Aluminum Stearate
"AKTAFLO-S"	Nonionic Surfactant
Barite	Barium Sulfate (BaSO4)
Calcium Carbonate	Aragonite (CaCO3)
Calcium Chloride	Hydrophilite (CaC12)
Calcium Oxide	Lime (Quick)
Calcium Sulfate	Anhydrite (CaSO4)
Carboxymethyl Cellulose	Carboxymethyl Cellulose
Caustic Potash	Potassium Hydrate
Caustic Soda	Sodium Hydroxide (NaOH)
Chrome Lignite	Chrome Lignite
Chrome Lignosulfonate	Chrome Lignosulfonate
Drilling Detergent	Soap
"E-Pal"	No-toxic, biodegradable defoamer
Ferrochrome Lignosulfonate	Derived from wood pulp
Gel	Sodium montmorillonite, bentonite, attapulgite
Gypsum	CaSO4.2H2O
Lignite	Lignite
Lignosulfonate	Lignosulfonate
"Mud-Sweep"	Cement Pre-Flush
"MOR-REX"	Hydrolyzed Cereal Solid
"Shale-Trol"	Organo-aluminum complex
Sapp	Sodium Acid Pyrophosphate
Soda Ash	Sodium Carbonate
Sodium Bicarbonate	NaHCO3
Sodium Carboxymethyl Cellulose	Sodium Carboxymethyl Cellulose
Sodium Chloride	NaC1
Sodium Chromate	NaCr04.10H2O
Starch	Corn Starch
"TX-9010"	Biodegradable drilling lubricant
"TORO-Trim"	Biodegradable drilling lubricant

MUD ADDITIVES

COMMON CHEMICAL OR CHEMICAL TRADE NAME	DESCRIPTION OF MATERIAL
"Black Magic"	Oil base mud conc.
"Black Magic Supermix"	Sacked concentrated oil base mud
Diesel pills	Used to mix certain loss-circulation
"Jelflake"	Plastic foil, shredded cellophane
MICA	Loss-circulation material
"Pipe-Lax"	Surfactant mixed with diesel
"Wall-nut"	Ground walnut shells

Mustang Island Block 783
OCS-G22163

Diesel Oil Base Mud Component Parts

Diesel	hydrocarbon oil	Base Fluid
Water	fresh H2O	Volume Builder
Salt	calcium chloride	Salinity Control
VG-Plus	organophilic clay	Viscosifier
Versawet	organic surfactant	Oil-Wetting Agent
Versatrol	gilsonite	Filtration Control
Versamul	**organic agents in a mineral oil base**	**Stabilizer, Emulsifier, Filtration & Temp Control**
Versacoat	organic surfactant	Emulsifier
Safe-Carb	ground marble	Bridging & Weighting Agent
MIX II	cellulose fiber	Bridging Agent
Barite	barium sulfate	Weighting Agent
Lime	calcium hydroxide	pH Control
G-Seal	graphite	Bridging Agent

SECTION F

OIL SPILL RESPONSE AND CHEMICAL INFORMATION

The Regional Oil Spill Response Plan (OSRP) Bi-Annual Update was approved by MMS April 6, 2005. Activities proposed in this **EP** will be covered by the Regional OSRP.

Spinnaker's primary equipment provider is Clean Gulf Associates (CGA). The Marine Spill Response Corporation's (MSRC) STARS network will provide closest available personnel, as well as an MSRC supervisor to operate the equipment.

In the event of a spill, mechanical response equipment located at CGA's base in **Galveston, Texas** would be transported to a staging area in **Harbor Island, Texas**.

The worst case discharge (WCD) proposed in this **EP** is equal to 1001 barrels and does not supercede the WCD as approved in our Regional OSRP. If our evaluation reveals that this WCD does in fact have the potential of having a more adverse impact than our currently identified WCD in our existing Regional OSRP, then Spinnaker will amend the Regional OSRP as required.

Activities proposed in this **EP** are considered far-shore (>10 miles from the shoreline). The Worst Case Discharge (WCD) scenario from the proposed activities in this **EP** and the WCD in the Regional OSRP on file with the MMS are compared below:

Comparison of WCD's in OSRP to Proposed Operations

Category	**Regional OSRP WCD**	**EP WCD**
Type of Activity	Drilling	Drilling
Spill Loc. (Area/Block)	SS273	MU783
Facility Designation	Jack-up	Jack-up
Distance to Nearest Shoreline (miles)	**54.6**	**29.9**
Volume (bbls)	**1001**	**1001**
Type of Oil (crude, cond., diesel)	Condensate	Condensate
API Gravity	**50.0°**	**54.0°**

Worst-Case Discharge

The Regional Oil Spill Response Plan (OSRP) Bi-Annual Update was approved by MMS April 6, 2005. Activities proposed in this **EP** will be covered by the Regional OSRP.

Since **Spinnaker** has the capability to respond to the worst case spill scenario included in its approved (**Approved April 28, 2004**) regional OSRP **as amended for** >10-mile production catagory **May 25, 2004** and for the exploratory drilling category **June 22, 2004**, and since the worst-case scenario determined for our **EP** does not replace the worst case scenario in our regional OSRP, I hereby certify that **Spinnaker** has the capability to respond, to a worst case discharge, or a substantial threat of such a discharge, resulting from the activities proposed in our **EP**.

Spinnaker Exploration Company, L.L.C. is the only company covered by our OSRP.

Description of Response to Worst-Case Discharge

This location is over **29.9** miles off the Texas Coast. The condensate production from well **G22163 No.1** is expected to be high gravity (**54**°+ API gravity). It will dissipate rapidly after hitting the water. If a blow out were to occur during a hurricane, Spinnaker would send a well control team to the rig once the weather moved inland of the coastline. We would probably dispatch one or two CGA Fast Response Vessels of Opportunity to the site to stand-by with their booms deployed down current of the location. The vessels would skim as long as the well was flowing. One vessel could also chase any intermittent discharges that might happen to get past the other's deployed boom. Once the well is brought under control and capped, Spinnaker would either complete or abandon it.

It would take approximately 10-12 hours to procure the necessary equipment, get it loaded on a vessel or vessels of opportunity and transport the FRU(s) (trailer mounted Fast Response Unit available to CGA members) to the site. If a CGA Fast Response Vessel or vessels were available and in **Harbor Island**, it would just take the **3-4** hours of travel time getting to the location.

Included as **ATTACHMENT F-1,** is the MSRC's (Marine Spill Response Corporation) Equipment Inventory and Locations along the Gulf Coast.

Included as **ATTACHMENT F-2,** is the Mobilization and Deployment Methods Section of Spinnaker's Regional Oil Spill Response Plan.

Included as **ATTACHMENT F-3,** is the Oil/Water/Debris Strategies Section of Spinnaker's Regional Oil Spill Response Plan.

DESCRIPTION OF VESSELS (This is also discussed in Section A.)

Work Boat Length – 180'; 3500 HP; Fuel Capacity – 80,000 gallons

Crew Boat Length – 120'; 2000 HP; Fuel Capacity – 45,000 gallons

Jack-up Rig Rating – 350'; Fuel – 21,000-25,000 gallons
Engine Oil – 650-850 Gallons
Hydraulic Oil – 400-500 Gallons
Gear Oil – 200-300 Gallons
BOP Fluid – 200-300 gallons
1 ea. 500 Gallon used oil tank

Dive Boat – 150'; 2000 HP; Fuel Capacity – 45,000 gallons

Diesel fuel – API gravity - 32°

APPENDIX E—RESPONSE EQUIPMENT

A. Equipment Inventory

Spinnaker Exploration Company's offshore response strategy is built around the oil spill containment and recovery equipment provided by Clean Gulf Associates (CGA) and supported by Marine Spill Response Corporation (MSRC). MSRC is responsible for storing, inspecting, maintaining and dispatching CGA's equipment. Trained Oil Spill Removal Organizations (OSROs) will operate the CGA equipment.

In the event that Spinnaker Exploration Company requires the use of any equipment from CGA, the Incident Commander will contact MSRC to mobilize the equipment.

CGA/MSRC - Lake Charles, LA
24 Hr. Spill Response Hotline—(888) CGA-2007
Web Page - www.cleangulfassoc.com
CGA/MSRC equipment locations can be contacted directly as follows:

STATE		OFFICE LOCATION	PHONE NUMBER
	TEXAS	Ingleside Galveston	(361) 776-5336 (409) 740-9188
	LOUISIANA	Lake Charles Intracoastal City Houma Fort Jackson	(337) 475-6464 * (985) 580-0924 (985) 657-9135
	MISSISSIPPI	Pascagoula	(228) 769-9598

* Equipment only

The Incident Commander may contact other service companies in the event additional equipment, materials or personnel would be necessary to contain, control and remove the spill. **APPENDIX F** contains a list of support services and supplies.

A Spill Response Equipment Inventory list of CGA and contractor equipment (by MSO area) is included in this section. This list will be utilized to locate response equipment and personnel from Oil Spill Removal Organizations on the Gulf Coast. (See **FIGURES E.1** through **E.5**.)

ATTACHMENT E-1

B. Inspection and Maintenance Programs

Clean Gulf Associates (CGA) ensures the inspections and testing of each piece of pollution response equipment (that lends itself to testing) monthly and repairs are made immediately in accordance with MSRC's contract with CGA. Records of equipment inspections and test results are maintained at each CGA / MSRC base and are available for inspection by Minerals Management Service (MMS) personnel.

In addition to the CGA monthly inspections and tests, each type of pollution response equipment is deployed at least once every 3 years to assure readiness of the equipment. Records of equipment deployed are maintained at each MSRC base and available to MMS personnel.

FIGURE E.1
CGA EQUIPMENT LOCATIONS

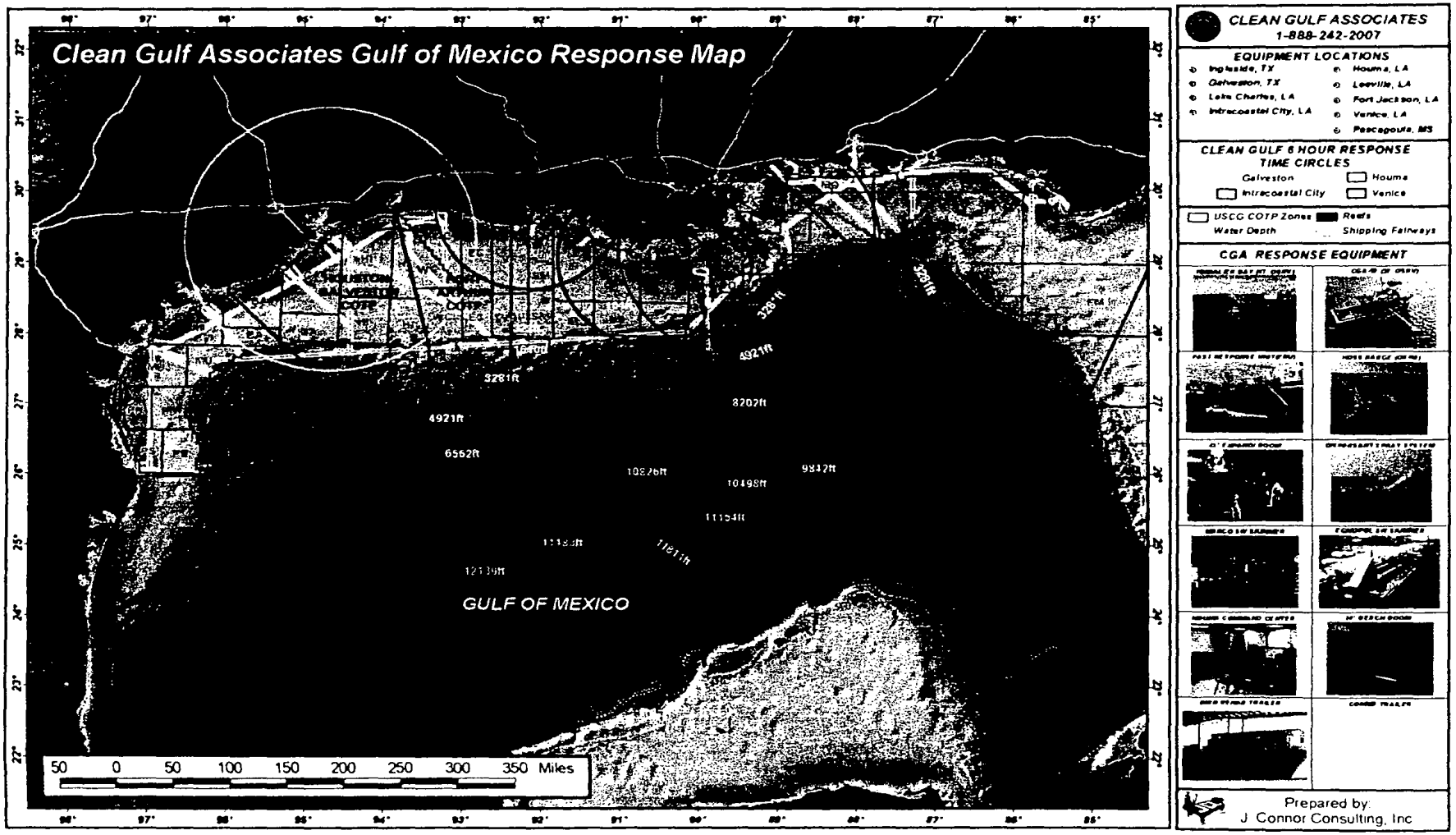


FIGURE E.2

Clean Gulf Associates

Oil Spill Response Equipment Quick Reference Sheet

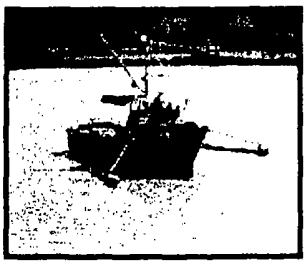
Note: This is a partial list of major CGA equipment. A complete listing can be viewed or downloaded at www.cleangulfassoc.com

HOSS BARGE

Length: 174 ft.
Recovery Rate: 43,000 bbls/day
Storage Capacity: 4,130 bbls
Top Towing Speed: 5 - 7 K
Description: This High Volume Open Sea Skimmer (HOSS) barge is designed for skimming extensive long duration spills in the stationary mode. Assisted by two tugs, the boom stored on two sides of the barge is launched off the barge stern by a hydraulic reel system to concentrate oil into the skimmer. Four Marco belt skimmers are mounted in the barge followed by weir skimmers. Equipped with a helipad, and 16 person bunk house.

CGA Bay Class Response Vessels

Length: 46 ft.
Recovery Rate: 4,944 bbls/day
Storage capacity: 65 bbls
Top Speed: 23 K
Description: CGA has 3 bay-class skimming vessels which can operate in a shallow near-shore environment and a moderate offshore area. Two outriggers and skimming booms divert oil into 2 LORI brush skimmers built into the hull of the vessel. These vessels are fully equipped with navigation, communications, and dispersant application equipment.



Fast Response Unit (FRU)

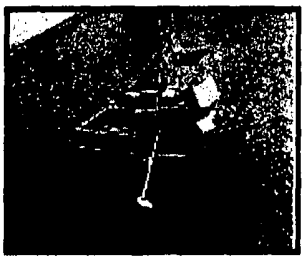
Recovery Rate: 3,400 bbls/day
Storage Capacity: 100 bbls
Top Speed: 12 K
Description: This self-contained skimming system is designed to be deployed from the right side of a vessel of opportunity (utility boat) in stationary or advancing mode. Each system has a primary skid that consists of a deployment crane, boom, weir skimmer, pump, and a recovered oil separator tank.

Marco Shallow Water Skimmer

Length: 34-38 ft
Recovery Rate: 200 bbls/day
Storage Capacity: 20-34 bbls
Top Speed: 12 K
Description: These self-propelled boats are capable of inland skimming in a stationary or advancing mode. The boat is equipped with Marco belt skimming system and boom may be attached to increase the swath path. The skimmers are trailer mounted and require an over-width permit.

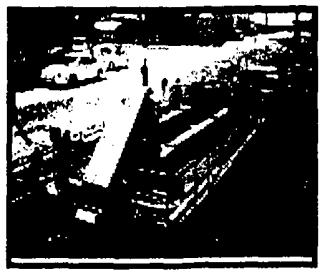
CGA 57

(Oil Spill Response Vessel)
Length: 37 ft.
Recovery Rate: 3,700 bbls/day
Storage Capacity: 46 bbls/day
Top Speed: 18 K
Description: This rapid response oil skimming boat can operate offshore and nearshore. A single outrigger and skimming boom combination diverts oil into a LORI 3 brush skimmer. Fully equipped with navigation and communication equipment.



Egmopol Shallow Water Skimmer

Length: 34.6 ft.
Recovery Rate: 3,000 bbls/day
Storage Capacity: 100 bbls
Top Speed: 6 K
Description: This self-propelled barge designed for inland skimming in stationary or advancing mode. The boat is equipped with a Egmopol belt skimmer and boom may be attached to increase the swath path. The skimmers are trailer mounted and require an Over-width permit.



Expandi Boom

Length: 500 ft./roll
Weight: 2,400 lbs.
Description: This self inflatable 43" open sea boom is designed to be deployed in offshore and nearshore environments. Can be air lifted with helicopter.

Shoreline (Beach) Boom

Length: 500 ft. / box
Weight: 2,400 lbs.
Description: This inter-tidal 22" inflatable boom is intended to protect the shoreline from oil spills. The water ballast chamber seals effectively to sand and mud, the water chamber will settle on the bottom and prevent oil from escaping or entering the area. Can be airlifted with a helicopter.

FIGURE E.3

SPILL RESPONSE CONTRACTORS (BY RESPONSE ZONE)

Contractor Number	Personnel Contractors	CONTRACTOR PERSONNEL PER RESPONSE ZONES					
		Corpus Chnsti	Galveston	Port Arthur	Morgan City	New Orleans	Mobile
1	**American Pollution Control (AMPOL)** All Locations: **(800) 482-6765** New Iberia, LA (337) 988-7460				54		
2	**Garner Environmental Services** All Locations: **(800) 424-1716** Houston, TX (281) 930-1200 La Marque, TX (409) 935-0308 Port Arthur, TX (409) 983-5646 New Orleans, LA (504) 254-2444	6	66	25		40	
3	**Industrial Cleanup, Inc.** All Locations: **(800) 436-0883** Lafayette, LA (337) 234-5104 New Orleans, LA (504) 362-8850 (24 hr) New Orleans, LA (504) 361-5372 Westwego, LA (985) 535-2679				10	35	
4	**Oil Mop, Inc.** All Locations: **(800) OILMOP1** Abbeville, LA Houma, LA Baton Rouge, LA Intracoastal City, LA Belle Chasse, LA Lake Charles, LA Cameron, LA Morgan City, LA Fourchon, LA Venice, LA			6	15	19	
5	**PSC Industrial Services** All Locations: **(800) 797-9992** Jeanerette, LA (337) 276-5163 Morgan City, LA (985) 384-7712 New Orleans, LA (504) 523-2758 Venice, LA (985) 534-2008				65	60	

FIGURE E.4
CLEAN GULF ASSOCATION (CGA) OIL SPILL RESPONSE EQUIPMENT

September 2004

LOCATION	Offshore Skimmers	Inland Skimmers	Large Boom	Shoreline Boom	Chemical Dispersants (Drums)	Bird Scare Guns	TRAILERS		
							Comm.	Wildlife Rehab	Bio.
TEXAS									
Ingleside	1 FRU	-----	1,750' Expandi	1,000'	-----	1 Set	-----	-----	-----
Sugar Land					527 (Corexit 9500)				
Galveston	1 FRU R/V Timbalier Bay (46')	CGA 54 (EGMOPOL)	2,500' Expandi	2,000'	6 (Corexit 9527)	1 Set	-----	-----	-----
LOUISIANA									
Lake Charles	1 FRU R/V Bastian Bay	CGA 51 (MARCO)	5,500' Expandi 1,000' 42"	2,000'	-----	2 Sets	1	-----	1
Houma	HOSS Barge 3 FRUs 1 Rope Mop R/V CGA 57 (37') R/V Armstrong (46')	CGA 52 (MARCO) & 55 (EGMOPOL)	5,000' Expandi	2,000'	90 (Corexit 9527)	2 Sets	-----	1	-----
Fort Jackson/Venice	2 FRUs R/V Grand Bay (46')	CGA 53 (MARCO)	3,000' Expandi 1,000' 42"	1,000'	7 (Corexit 9527)	2 Sets	-----	-----	-----
MISSISSIPPI									
Pascagoula	1 FRU	-----	3,000' Expandi	2,000'	-----	2 Sets	-----	-----	-----

LEGEND
1 Set Bird Scare Guns = 12 each.

FIGURE E.4
CLEAN GULF ASSOCATION (CGA) EQUIPMENT SPECS AND REQUIREMENTS

September 2004

Description	Derating Bbl/Day	Storage Capacities Bbl	Personnel Required to Operate Equipment	Vessel Requirements	Auxiliary Needs
Dispersant Aircraft					
1 – DC-4 (2000 gallon dispersant payload) 2 – DC-3 (1000 gallon dispersant payload)	-----	-----	Airborne Support Inc. Pilot Required	-----	1 - Spotter Aircraft 1 - Pilot 1 - Experienced Spotter
Offshore Skimmers					
HOSS Barge	43,000	4,130	8 Laborers 1 Aviation Controller 3 MSRC Supervisors	1 - 1,800 HP Tow Boat and Tug 2 - 1,200 HP Tow Boats and Tugs for Boom	-----
9-FRU's	3,400	200	4 to 6	1 - Utility Boat (with 65' deck space)	1 - Storage vessel for offloading recovered oil. 1 - Mechanic for set-up and maintenance. 1 - Some units trailer mounted (need crane).
CGA 57 (37 feet - staged in Houma, LA) Bastian Bay (46ft, staged in Lake Charles, LA) Grand Bay (46 ft, staged in Venice, LA) Timbalier Bay (46 ft, staged in Galveston, TX) Armstrong (46 ft, staged in Houma, LA)	3,700 5,000 5,000 5,000 5,000	46 65 65 65 65	3	-----	-----
Inland Skimmers					
CGA 51 (MARCO) —Lake Charles, LA CGA 52 (MARCO) — Houma, LA CGA 53 (MARCO) —Fort Jackson, LA CGA 54 (EGMOPOL) —Galveston, TX CGA 55 (EGMOPOL) —Houma, LA	288 288 288 3,000 3,000	20 34 34 100 100	3 – 4	-----	Need CGA 50 bbl barges for recovered oil. (2 in Houma, LA, 2 in Lake Charles, LA and 2 in Fort Jackson, LA)

LEGEND
Corexit 9527 — 103 Drums at ASI in Houma, Louisiana.
Corexit 9500 — 527 Drums at Nalco/Exxon in Sugar Land, Texas.
Corexit 9527 – 6-7 drums stored on each 46' response vessel
(1 Drum Dispersant = 55 gallons.)

FIGURE E.5
SPILL RESPONSE EQUIPMENT INVENTORY
☆ = STARS Responder

Company	Offshore Skimmers	Inland Skimmers	Boom >24"	Boom 4"-24"	Viscous Sweep	Product Storage	Misc.	Small Vessels
Corpus Christi Area								
CC Area Oil Spill Control Assoc. Corpus Christi, TX Ph: (361) 882-2656		(1) 28' Skimmer (5) 44 to 300 GPM (1) 24' Skimmer Barge		(500') 24" (11,500') 18"		12/24/60 bbl Storage Bladders (1) Tank Barge (1) 60 bbl Tank Trailer (1) 75 bbl Tank Truck		(1) 71' Fireboat (1) 28' (6) Work Boats (1) 21' Airboat
Marine Salvage & Services Port Isabel, TX Ph: (210) 943-2648					3100'	(1) Vacuum Truck (1) 20,000 gallon Barge (70) 2250 gal Bladders		
Miller Environmental ☆ Corpus Christi, TX Ph: (361) 289-9800	(2) FRU's	(4) 16 yd Super Suckers (1) Saucer Skimmer (9) 70 bbl Vac Trucks (1) 130 bbl Vac Truck		(2000') 10" (3000') 18"		(200) 55 gallon DOT Drums (10) 85 gallon Overpak Drums (100) 20 yard Roll Off Boxes (2) 400 bbl Vertical Tanks (1) 500 bbl Frac Tank		(5) Jon Boats (1) Push Boat 24' (1) Airboat 14' (2) Response 16'
National Response Corp. Corpus Christi, TX Ph: (800) 899-4672		(1) Barge - Valient		(100') 18"				
TGLO Aransas Pass, TX Ph: (361) 758-7228		(3) Drums (1) JBF		(4300') 18"		(6) Fast Tanks (3) Bladders	(40) Bird Scare Guns	
U.S. Coast Guard - MSO Corpus Christi, TX Ph: (361) 888-3193		(2) Desmi 250		(1000') 24" (2000') 18"		(1) 600 bbl Barge		
U.S. Naval Station Ingleside, TX Ph: (361) 929-2918		(1) Belt		(13,000') 24"				
Corpus Christi Area								
Waste Control Services Corpus Christi, TX Ph: (361) 289-6466		(1) Drum (1) Rope Mop (1) Wier (1) Duck Bill		(2000') 18"				(1) Alum. Work 23' (2) Jon Boats (1) Airboat 18' (1) Response 18'

FIGURE E.5
SPILL RESPONSE EQUIPMENT INVENTORY

☆ = STARS Responder

Company	Offshore Skimmers	Inland Skimmers	Boom >24"	Boom 4"-24"	Viscous Sweep	Product Storage	Misc.	Small Vessels
Galveston Area								
Garner Environmental Services Houston, TX ☆ Ph: (281) 930-1200		(3) Disc (5) Weir		(1000') 6" (9100') 18" (300') 24"		(1) 80 bbl Vacuum Truck	(1) Communication Table	(1) Flat Bottom (5) Bay Boats (8) Jon Boats
Garner Environmental Services LaMarque, TX ☆ Ph: (409) 935-0308		(1) Weir (1) Rope Mop	(2800') 36" (2000') 48"	(10,500') 18" (500') 6.5"		(8) 80 bbl Vacuum Trucks (4) 80 bbl Super Suckers (1) 80 bbl Skid Tank		(4) Jon Boats (2) Bay Boats
Texas General Land Office La Porte, TX Ph: (281) 470-6597							(1) Bird Trailer	
Waste Control Services Channelview, TX Ph: (800) 832-7536		(1) Pipe Skimmer (1) Rope Mop Skimmer (1) Mini-Max (1) Duck Bills		(1000') Containment (500') Fire (500') Tow		2700 gallon		(2) Jon Boats (1) Lowe 15'
Port Arthur Area								
Garner Envir. Svcs. ☆ Port Arthur, TX Ph: (409) 983-5646		(2) Weir (1) JBF 3001 Skimmer		(9500') 18"				(6) Jon Boats (1) 26'
Laidlaw Envir. Svcs. Port Arthur, TX Ph: (409) 796-1388				(7000') 18"		(6) 80 bbl Vacuum Trucks (12) 55 bbl Vacuum Trucks (4) 500 bbl Frac Tanks		(15) Jon Boats (2) Air Boats

Morgan City Area								
AMPOL ☆ Port of Iberia, LA Ph: (800) 482-6765	(1) GT 185 (1) MOSS unit (1) Vikoma	(3) Hand Held (2) Rope Mop		(1300') 18" (8400') 18" (4000') 24" (1000') 10"		(2) 750 gal Storage Tanks (2) 2000 gal Storage Tanks	(2) Roto-Pac w/Spare Turn Table (1) Boat Spray System	(6) Jon Boats (14) 35' - 185'
AMPOL ☆ Houma, LA Ph: (800) 482-6765	(1) GT 185 (1) MOSS unit			Hydraulic Boom (1300') Expandi (720') Expandi		(1) 2000 gallon Tank	(1) Boat Spray System	(2) Utility Boats
CENAC Barge & Towing ☆ Houma, LA Ph: (985) 872-2413						25,000 bbl Open Ocean Barge 24,000 bbl Open Ocean Barge 23,000 bbl Open Ocean Barge 11,000 bbl Inland Barge 9,500 bbl Inland Barge		
Envir. Equip , Inc. Houma, LA (Site 1) Ph: (985) 868-3100		(3) Weir		(2800') 18" (2000') 18"				(7) Jon Boats (1) Whaler 21'
Envir. Equip., Inc. Houma, LA (Site 2) Ph: (985) 868-3100						(1) 12,000 bbl Tank Barge		(1) Fireboat (25) Barges (1) Pontoon Vessel (6) Flats
Envir. Equip., Inc. Lockport, LA (Site 3) Ph: (985) 868-3100				(1000') 18"		(7) Vacuum Trucks (15) 286 bbl Storage Tanks		
ES&H Cenac Env. ☆ Consulting Services Houma, LA Ph: (985) 851-5350		(12) Slickbar Manta Ray (1) Skimpack (4) Slick Skim (1) Skickbar Slurp (4) Drum		(10,000') 18"				(15) Jon Boats (4 of them are over 25')
Industrial Cleanup Inc. ☆ Lafayette, LA Ph: (800) 436-0883				(3000') 18"				(4) Jon Boats
Industrial Cleanup Inc. ☆ Dulac, LA Ph: (800) 436-0883				(1000') 18"				(1) Jon Boat

Morgan City Area								
Industrial Cleanup Inc. ☆ Morgan City (Berwick), LA Ph: (800) 436-0883		(1) Rope Mop (1) I-4D Mop Skimmer (1) II-4 Skimmer		(1000') 18" (800') 18"	(1) 200'	(1) 41 bbl Tank (2) 500 bbl Frac Tank	Immediate Response Unit	(2) Jon Boats (1) Boat 26'
Oil Mop, Inc. ☆ Abbeville, LA Ph: (800) 645-6671				(1000') 18"				(1) 115 HP 20'
Oil Mop, Inc. ☆ Houma, LA Ph: (800) 645-6671		(1) Rope Mop (1) I-4D Mop Skimmer		(10000') 18"	(1) 200'		Immediate Response Unit	(2) Jon Boats
Oil Mop, Inc. ☆ Intracoastal City, LA Ph: (800) 645-6671		(1) Rope Mop (1) I-4D Mop Skimmer		(2000') Shoreline	(1) 200'	(5) 30 bbl Barge	Immediate Response Unit	(2) Jon Boats
Oil Mop, Inc. ☆ Morgan City, LA Ph: (800) 645-6671		(4) Rope Mops (1) Disc	(2000') 36"	(15000') 18"		(30) 55 gal Drums (2) 500 bbl Frac Tank (2) 4 bbl Marine Portable Tanks (5) 24 bbl Cutting Tanks	Immediate Response Unit	(6) Jon Boats
Oil Mop, Inc. ☆ New Iberia, LA Ph: (800) 645-6671		(1) II-9 Skimmer System		(20000') 18"		(2) Storage Bladders		
PSC Industrial Services Golden Meadow, LA Ph: (985) 475-7770		(1) Guzzler		(2500')		200 bbl		(1) 16' (2) 14'
PSC Industrial Services Morgan City, LA Ph: (985) 631-3325		(1) Guzzler		(2200')		2750 bbl Portable Storage		(1) 16' (2) 14'
New Orleans Area								
AMPOL ☆ New Orleans, LA Ph: (800) 482-6765	(1) 260' GT (1) MOSS unit	(5) Walosep Skimmers (1) Lamor 2 Cassettes	Hydraulic Boom Reel 1300' Expandi 4300 720' Expandi 300			(2) 2000 gallon Storage Tank	(1) Helo Spray Bucket (1) 3500 bbl Dracone Barge	

New Orleans Area								
Garner Envir. Svcs. ☆ New Orleans, LA Ph: (504) 254-2444		(2) Weir (1) Disc		(5000') 18" (200') 9"		(2) Trailer Loads of Various Sorbent Products		(4) Jon Boats (16') (1) 20' (1) 30'
Grand Isle Shipyards Galliano, LA Ph: (985) 475-5238			(1000') 36"	(5000') 18" (2000') 6-8"		(50) Bags of Pads (1) Trailer with Various Products		(2) Jon Boats
Industrial Cleanup Inc. ☆ Baton Rouge, LA Ph: (800) 436-0883		Skimmer Barrier		(2400') 18"		16,000 gallon		(3) Jon Boats
Industrial Cleanup Inc. ☆ Grand Isle, LA Ph: (800) 436-0883				(2000') 18"		1020 bbl Dracones Bladder		(1) Jon Boat
Industrial Cleanup Inc. ☆ Fourchon, LA Ph: (800) 436-0883				(3200') 42" (1000') 18"				
Industrial Cleanup Inc. ☆ Venice, LA Ph: (800) 436-0883			(2000') 42"	(1000') 18"		1020 bbl Dracones Bladder		(1) Jon Boat
Industrial Cleanup Inc. ☆ Westwego, LA Ph: (800) 436-0883	(9) FRU's	(11) Shallow Water Units	(12,000') 42"	(15,000') 18" (2400') 12"				(10) Jon Boats
Oil Mop, Inc. ☆ B. Rouge/Port Allen, LA Ph: (800) 645-6671		(1) Rope Mops (1) I-4D Mop Skimmer		(3000') 18" w/Trailer (1000') 18" (5500') 18"	(1) 200'	(30) 55 gal Storage Drums (3) 500 bbl Frac Tanks (2) 41 bbl Marine Portable Tanks (5) 24 bbl Cutting Tanks	Immediate Response Unit	(2) Jon Boats (1) 26' Work Barge
Oil Mop, Inc. ☆ Belle Chase, LA Ph: (800) 645-6671		(1) I-4D Mop (1) Rope Mop (4) Skimmers		(5700') 18" (1000') 18"	(1) 200'	(2) 41 bbl Marine Portable Tanks (2) 500 bbl Frac Tanks (5) 24 bbl Cutting Tanks (30) 55 gal Storage Drums	Immediate Response Unit	(2) Jon Boats (1) Work Barge 26'
Oil Oil Mop, Inc. ☆ Fourchon, LA Ph: (800) 645-6671		(1) Rope Mop (1) I-4D Mop Skimmer		(1000') 18"	(1) 200'		Immediate Response Unit	(2) Jon Boats 15'

New Orleans Area								
Oil Mop, Inc. ☆ Venice, LA Ph: (800) 645-6671		(1) Rope Mop (1) I-4D Mop Skimmer		(1000') 18"	(1) 200'		Immediate Response Unit	(2) 16' Jon Boats
PSC Industrial Services ☆ Reserve, LA Ph: (800) 797-9992		(1) MARCO (4) Pelicans 24" (3) Skim Paks (2) MK-140 (2) MK-II40		(500') 18" (23,000') 18" (2000') 24"		500 bbl		(1) 24' (3) 20' (2) 18' (4) 16'
PSC Industrial Services ☆ Venice, LA Ph: (985) 534-2008		(2) Guzzlers (1) 70 bbl Vac Truck		2500'		1500 bbl		(3) Jon Boats
Mobile Area								
Rubark Envir. Svcs. Inc. New Orleans, LA Ph: (504) 944-9965		(5) Pump/Skimmers 2" (1) Pump/Skimmers 3"	(500') 36"	(13,500') 18" (500') 10"		500 bbl		(6) 16' Workboat (1) 17' Workboat (2) 20' Workboat
PSC Industrial Services Mobile, AL Ph. (800) 797-9992		(2) Pelican 24"	(1000')	(3000')		200 bbl		(2) 18'

SECTION 14—MOBILIZATION AND DEPLOYMENT METHODS

A major consideration during a spill is the organization and direction of the transportation of manpower, equipment and materials used in response operations. Examples of transportation needs are outlined in **FIGURE 14.1**.

1) Spinnaker Exploration Company will work with local authorities (state police) in establishing land routes that will expedite the movement of personnel, equipment, materials and supplies to the staging area and waste products from the staging area. See **FIGURE 14.2** for a list of possible Staging Areas.

2) Some of the response equipment such as the Model I Fast Response Systems are permit loads. Two drop-deck trailers, one for each tank, and a float-trailer are required. The trucker will obtain the permit. The Model II and III Fast Response Systems do not require a permit, and therefore are better suited for fast response if trucking to a staging area. Currently, five of the Fast Response Systems are trailer mounted for rapid highway response.

3) Vessel companies are listed in **APPENDIX F**

CGA equipment is stockpiled in warehouses along the Gulf Coast. The criteria in selecting which CGA warehouse to mobilize equipment from includes location of spill, trajectory, availability of equipment, personnel, vessels, and dock space. Equipment sites closest to the leading edge of the slick will be given first priority. Some of these warehouses are adjacent to docks enabling rapid loadout of the equipment onto vessels. Other equipment must be trucked to a Staging Area for loadout.

ATTACHMENT F-2

FIGURE 14.1
TRANSPORTATION METHODS—VESSELS, AIRCRAFT, AND TRUCKING

VESSELS

Transportation Mode	Use	Special Considerations
1. Utility Boats	a. Deploy skimmers b. Boat spray system c. Temporary oil storage	Contain 65' deck space and ability to cruise @ 1 knot or less.
2. Crew Boats	a. Deploy boom	Size depends on boom dimensions and water depth.
3. Tug Boats	a. Carry and position Hoss Barge b. Position storage barges	(1) 1800 HP tug (2) 1200 HP tugs
4. Tank Barges	a. Haul waste to disposal site	

AIRCRAFT

Transportation Mode	Use	Special Considerations
1. Helicopters	a. Spray collectants b. Slick surveillance c. Personnel deployment	Need communication equipment.
2. Seaplanes	a. Slick surveillance b. Personnel deployment	
3. Airplane	a. Dispersant application b. Slick surveillance	Has aerial spray capabilities. Needs special navigation and communication equip. on board.

TRUCKING

Transportation Mode	Use	Special Considerations
1. Flatbed Trucks	a. Haul equipment to staging area	May be permit load
2. Drop Deck Trailers	a. Haul equipment to staging area	May be permit load
3. Tractors	a. Transport skimmers already mounted on trailers	May be permit load
4. Pickup Trucks	a. Deliver equipment and supplies to staging areas. b. Deliver food and potable water	
5. Tank Trucks	a. Haul waste to disposal site	Need permit

FIGURE 14.2
LIST OF STAGING AREAS – LOUISIANA *

LOCATION	COMPANY NAME	PHONE	CRANE	TRAILER
Amelia	ASCO	(985) 631-0621	Yes	Yes
	Baroid Drilling Fluids	(985) 385-1010	Yes	Yes
	Berry Brothers	(985) 384-8770	Yes	Yes
	Berwick Supply	(985) 384-5073	No	No
	M-I Drilling Fluids	(985) 385-2660	Yes	Yes
	Star Enterprises	(985) 384-8894	Yes	Access
Cameron	AMBAR	(337) 775-5995	Yes	Yes
	Baker Hughes	(337) 775-5125	Yes	Yes
	Baroid Drilling Fluids	(337) 775-5512	Yes	Yes
	Halliburton Services, Inc.	(337) 775-5872	Access	Yes
	M-I Drilling Fluids	(337) 775-5311	Yes	Yes
	Tesoro Marine Services	(337) 569-2611	Yes	No
Chenier	Crain Brothers	(337) 538-2411	Yes	No
Dulac	Baker Hughes	(985) 563-4537	Yes	Yes
	Baroid Drilling Fluids	(985) 563-4241	Yes	Yes
	M-I Drilling Fluids	(985) 563-4413	Yes	Yes
Fourchon	Newpark Environmental	(985) 396-2755	Yes	Yes
	ASCO	(985) 396-2737	Yes	No
	Martin Terminal, Inc.	(985) 396-2701	Yes	Yes
	ASCO	(985) 396-2711	Yes	Yes
	Baroid Drilling Fluids	(985) 396-2681	Yes	Yes
Fresh Water City	Baroid Drilling Fluids	(337) 737-2440	Yes	Yes
Golden Meadow	M-I Drilling Fluids	(985) 396-2851	Yes	Yes
Grand Isle	MSRC Clean Gulf	(985) 580-0924	Access	Yes
Harvey	BV Industries	(504) 367-4500	Yes	No
Intracoastal City	AMBAR	(337) 893-7120	Yes	Yes
	Baker Hughes	(337) 893-2772	Yes	Yes
	Baroid Drilling Fluids	(337) 893-3536	Yes	Yes
	Broussard Brothers, Inc.	(337) 893-5303	Yes	Yes
	ASCO	(337) 893-6084	Yes	Yes
	M-I Drilling Fluids	(337) 893-5852	Yes	Yes
Lafayette	M-I Drilling Fluids	(337) 233-1714	Yes	Yes
New Orleans	Avondale Shipyard	(504) 436-2121	Yes	Yes
Venice	AMBAR	(985) 534-9575	Yes	No
	Baker Hughes	(985) 534-2379	Yes	Yes
	Baroid Drilling Fluids #2	(985) 534-2021	Yes	Yes
	Halliburton Services, Inc.	(985) 534-2386	Yes	Yes
	M-I Drilling Fluids	(985) 534-7422	Yes	Yes

* Note: The following website may be helpful in finding boat launches. Louisiana Oil Spill Coordinator's Office, Boat Launch & Lift Locator: http://lamarinas.losco.lsu.edu

FIGURE 14.2
LIST OF STAGING AREAS – TEXAS

LOCATION	COMPANY NAME	PHONE	CRANE	TRAILER
Aransas Pass	Halliburton Services, Inc.	(361) 758-0273	Access	Yes
Corpus Christi	Halliburton Services, Inc.	(361) 888-8153	Access	Yes
Freeport	Baker Hughes	(979) 233-6748	Yes	Yes
	Baroid Docks	(979) 233-5281	Yes	Yes
	Offshore Oil Services	(979) 233-1851	Yes	Yes
	Tesoro Marine Services	(979) 233-0176	Yes	Yes
Galveston	AMBAR	(409) 744-7109	Yes	Yes
	Halliburton Services, Inc.	(409) 740-0866	No	No
	Tesoro Marine Services	(409) 744-7159	Yes	Yes
	Tesoro Marine Services	(409) 744-7126	Yes	No
	Tesoro Marine Services	(409) 744-3282	Yes	Yes
Harbor Island	AMBAR	(361) 758-2252	Yes	Yes
	Baker Hughes	(361) 758-0296	Yes	Yes
	Brown & Root	(361) 758-2554	Yes	Yes
Port Aransas	Tesoro Marine Services	(361) 758-0296	Yes	Yes
Port O'Connor	Baroid Docks	(361) 983-2691	Yes	Yes
	Tesoro Marine Services	(361) 983-2631	Yes	Yes
Sabine Pass	ELI	(409) 971-2183	Yes	No
	ASCO	(409) 971-2521	Yes	Yes
	Sabine Offshore Services	(409) 971-2377	Yes	No
	Tesoro Marine Services	(409) 971-2144	Access	Yes

FIGURE 16.2

Oil/Water/Debris Separation Strategies

The different types of wastes generated during response operations require different disposal methods. Waste shall be separated by material type for temporary storage prior to transport. The following table lists some of the options available for separating oily wastes into liquid and solid components. The table also depicts methods that may be employed to separate free and/or emulsified water from the oily liquid waste.

TYPE OF MATERIAL	SEPARATION METHODS
(1) LIQUIDS	
Non-emulsified oils	Gravity separation of free water
Emulsified oils	Emulsion broken to release water by: • heat treatment • emulsion breaking chemicals • centrifuge • filter/belt press
(2) SOLIDS	
Oil mixed with sand	• Collection of liquid oil leaching from sand during temporary storage • Extraction of oil from sand by washing with water or solvent • Mechanical sand cleaner • Removal of solid oils by sieving
Oil mixed with cobbles, pebbles or shingle	• Screening • Collection of liquid oil leaching from beach material during temporary storage • Mechanical sand/gravel cleaner • Extraction of oil from beach material by washing with water or solvent
Oil mixed with wood, plastics, seaweed and sorbents	• Screening • Collection of liquid oil leaching from debris during temporary storage • Flushing of oil from debris with water
Tar balls	Separation from sand by sieving

ATTACHMENT F-3

FIGURE 16.3
TEMPORARY STORAGE METHODS

Container	On-shore	Off-shore	Solids	Liquids	Notes
Barrels	✓	✓	✓	✓	May require handling devices.
Tank Trucks	✓			✓	Consider road access onshore. Barge-mounted offshore.
Dump/Flat Bed Trucks	✓		✓		Require impermeable liner and cover. Consider flammability of vapors at mufflers.
Barges		✓	✓	✓	Liquids only in tanks. Consider venting of tanks.
Oil Storage Tanks	✓	✓		✓	Consider problems of large volumes of water in oil.
Bladders	✓	✓		✓	May require special hoses or pumps for oil transfer.
Pits	✓		✓	✓	Liner(s) required.
Roll-off Bins	✓		✓		Require impermeable liner and cover.
Mud Tanks	✓	✓	✓	✓	500 gallon - 500 Bbls
Frac Tanks	✓	✓	✓	✓	Portable, can be deployed anywhere.

FIGURE 16.4
WASTE DISPOSAL SITES

STATE	WASTE SITE	TYPE OF OPERATION	WASTES ACCEPTED	SITE LOCATION	PHONE NUMBER
AL	ETT	Waste Treatment	Drilling muds/cuttings	Mobile, AL	(334) 443-6324
AL	Mitchell Steel Drum Company	Drum Recycler	Empty, drip dried drums	Saraland, AL	(334) 675-3786
AL	Timberlands (BFI, Inc.)	Landfill	Industrial wastes	Brewton, AL	(334) 665-7246
LA	Allwaste Crude Oil Reclamation	Reclaimer/SWDW	Waste crude oil, E&P waste fluids	Jeanerette, LA	(337) 276-5163
LA	Chemical Waste Management	Landfill	Hazardous waste	Carlyss, LA	(800) 673-5541
LA	Coastal Chemical	Glycol Recycler	Gycols, amines	Abbeville, LA	(337) 898-0001
LA	Guillory Tank	Salt Water Disposal	E&P waste fluids	Richard, LA	(800) 252-5563
LA	Haller Ent.	Injection Wells	E&P waste & non-hazardous fluids	Pierre Part, LA	(985) 252-9840
LA	Houma SWD	Salt Water Disposal	E&P waste fluids	Houma, LA	(985) 851-0643
LA	Int. Petroleum Co.	Reclaimer	Waste refined and crude oil	New Orleans, LA	(504) 254-9021
LA	Louisiana Tank	Salt Water Disposal	E&P waste fluids	Bell City, LA	(337) 436-1000
LA	U. S. Liquids	Land Treatment/SWDW	All E&P waste	Mermentau, LA	(337) 824-8588
LA	Woodside Landfill	Landfill	Industrial waste	Walker, LA	(800) 673-5541
TX	Chemical Waste Management	Incinerator	Hazardous waste	Port Arthur, TX	(800) 673-5541
TX	Newpark Environmental Servs.	Waste Treatment	All	Port Arthur, TX	(409) 963-3509
TX	Procycle	Industrial Cleaning	Oily rags, gloves, filters, booms & pads	Springtown, TX	(800) 628-1445
TX	Safety Kleen	Fuels Blending	Hazardous waste	Denton, TX	(940) 483-5200
TX	Sinton Land Fill (BFI)	Land fill	Industrial wastes	Sinton, TX	(800) 274-0649

NOTES:
- RCRA - Resource Conservation and Recovery Act ("listed" or "characteristic" hazardous waste)
- E&P waste - exploration and production waste, exempt from RCRA

EXPLORATION PLAN (EP)
AIR QUALITY SCREENING CHECKLIST

OMB Control No. XXX-XXX
Expiration Date: Pending

COMPANY	Spinnaker Exploration Conpany, L.L.C.
AREA	Mustang Island
BLOCK	783
LEASE	G 22163
PLATFORM	Jack-up
WELL	A, B
COMPANY CONTACT	Tom Becnel
TELEPHONE NO.	713/356-7534
REMARKS	Drill & MLA 2 wells. This is not a Gorilla class rig.

"Yes"	"No"	Air Quality Screening Questions
	X	Is any calculated Total (CT) Emission amount (in tons) associated with your proposed exploration activities more than 90% of the amounts calculated using the following formulas: CT= 3400 2/3 for CO, and CT= 33.3D for the other air pollutants (where D= distance to shore in miles)?
	X	Do your emission calculations include any emission reduction measures or modified emission factors?
	X	Are your proposed exploration activities east of 87.5° W latitude?
	X	Do you expect to encounter H_2S at concentrations greater than 20 ppm?
	X	Do you propose to flare or vent natural gas for more than 48 continuous from any proposed well?
X		Do you propose to burn produced hydrocarbon liquids?

If ALL questions are answered "No":
Submit only this coversheet with your plan; a full set of spreadsheets is not needed.

If ANY of questions 1 through 7 is answered "Yes":
Prepare and submit a full set of **EP** spreadsheets with your plan.

If question number 8 is answered "Yes":
Prepare and submit a full set of **DOCD** spreadsheets showing the cumulative emissions from both the proposed activities and the existing production platform.

Fuel Usage Conversion Factors	Natural Gas Turbines		Natural Gas Engines		Diesel Recip. Engine		REF.	DATE
	SCF/hp-hr	9.524	SCF/hp-hr	7.143	GAL/hp-hr	0.0483	AP42 3.2-1	4/76 & 8/84

Equipment/Emission Factors	units	PM	SOx	NOx	VOC	CO	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-1& 3.1-1	10/96
NG 2-cycle lean	gms/hp-hr		0.00185	10.9	0.43	1.5	AP42 3.2-1	10/96
NG 4-cycle lean	gms/hp-hr		0.00185	11.8	0.72	1.6	AP42 3.2-1	10/96
NG 4-cycle rich	gms/hp-hr		0.00185	10	0.14	8.6	AP42 3.2-1	10/96
Diesel Recip. < 600 hp.	gms/hp-hr	1	1.468	14	1.12	3.03	AP42 3.3-1	10/96
Diesel Recip. > 600 hp.	gms/hp-hr	0.32	1.468	11	0.33	2.4	AP42 3.4-1	10/96
Diesel Boiler	lbs/bbl	0.084	2.42	0.84	0.008	0.21	AP42 1.3-12,14	9/98
NG Heaters/Boilers/Burners	lbs/mmscf	7.6	0.593	100	5.5	84	P42 1.4-1, 14-2, & 14	7/98
NG Flares	lbs/mmscf		0.593	71.4	60.3	388.5	AP42 11.5-1	9/91
Liquid Flaring	lbs/bbl	0.42	6.83	2	0.01	0.21	AP42 1.3-1 & 1.3-3	9/98
Tank Vapors	lbs/bbl				0.03		E&P Forum	1/93
Fugitives	lbs/hr/comp.				0.0005		API Study	12/93
Glycol Dehydrator Vent	lbs/mmscf				6.6		La. DEQ	1991
Gas Venting	lbs/scf				0.0034			

Sulfur Content Source	Value	Units
Fuel Gas	3.33	ppm
Diesel Fuel	0.4	% weight
Produced Gas(Flares)	3.33	ppm
Produced Oil (Liquid Flaring)	1	% weight

EMISSIONS CALCULATIONS 1ST YEAR

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		CONTACT	PHONE	REMARKS
Spinnaker Exploration Cor	Mustang Island	783	G 22163	Jack-up	A, B		Tom Becnel	713/356-7534	

OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR					ESTIMATED TONS				
	Diesel Engines	HP	GAL/HR	GAL/D												
	Nat. Gas Engines	HP	SCF/HR	SCF/D												
	Burners	MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
DRILLING	PRIME MOVER>600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER>600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER>600hp diesel	16000	772.8	18547.20	24	90	11.28	51.74	387.67	11.63	84.58	12.18	55.87	418.68	12.56	91.35
	PRIME MOVER>600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	BURNER diesel	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
emer gen/cranes	AUXILIARY EQUIP<600hp diesel	300	14.49	347.76	1	13	0.66	0.97	9.25	0.74	2.00	0.00	0.01	0.06	0.00	0.01
	VESSELS>600hp diesel(crew)	2000	96.6	2318.40	4	39	1.41	6.47	48.46	1.45	10.57	0.11	0.50	3.78	0.11	0.82
	VESSELS>600hp diesel(supply)	2500	120.75	2898.00	4	45	1.76	8.08	60.57	1.82	13.22	0.16	0.73	5.45	0.16	1.19
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
FACILITY INSTALLATION	DERRICK BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MATERIAL TUG diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS>600hp diesel(crew)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.	BPD	SCF/HR	COUNT												
	TANK-	0			0	0				0.00					0.00	
DRILLING	OIL BURN	300			24	2	5.25	85.38	25.00	0.13	2.63	0.13	2.05	0.60	0.00	0.06
WELL TEST	GAS FLARE		416667		24	2		0.25	29.75	25.13	161.88		0.01	0.71	0.60	3.89
	2005 YEAR TOTAL						**29.24**	**193.62**	**865.98**	**50.05**	**341.48**	**12.69**	**59.66**	**432.95**	**13.56**	**98.12**
EXEMPTION CALCULATION	**DISTANCE FROM LAND IN MILES**	**SPINNAKER WILL NOT USE A GORILLA CLASS RIG.**										**995.67**	**995.67**	**995.67**	**995.67**	**32753.65**
	29.9															

SUMMARY

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
Spinnaker Explo	Mustang Island	783	G 22163	Jack-up	A, B

Year	Emitted Substance				
	PM	SOx	NOx	VOC	CO
2005	12.69	59.66	432.95	13.56	98.12
2006	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00
Allowable	995.67	995.67	995.67	995.67	32753.65

SECTION G

AIR EMISSIONS

Offshore air emissions related to the proposed activities result mainly from the drilling rig operations, helicopters and service vessels. These emissions occur mainly from combustion or burning of fuels and natural gas, and from venting or evaporation of hydrocarbons. The combustion of fuels occurs primarily on diesel-powered generators, pumps or motors, and from lighter fuel motors. Other air emissions can result from catastrophic events such as oil spills or blowouts.

Primary air pollutants associated with OCS activities are nitrogen oxides, carbon monoxide, sulphur oxides, volatile organic compounds, and suspended particulates.

Included as **Attachment G-1** is the Projected Air Quality Emissions Report prepared in accordance with Appendix G of the Notice to Lessees NTL 2003 G-17 addressing drilling and suspension operations.

SECTION H

ENVIRONMENTAL IMPACT ANALYSIS

ENVIRONMENTAL IMPACT ANALYSIS

Included in this section, as **Attachment H-1** is the **ENVIRONMENTAL IMPACT ANALYSIS** prepared in accordance with Appendix H of Notice to Lessees NTL 2002-G08.

Environmental Impact Analysis
For
Initial Exploration Plan
Mustang Island Area Block 783
OCS-G-22163

May 2005

(CEI 24012)

Attachment A-1

Environmental Impact Analysis
For
Initial Exploration Plan
Mustang Island Area Block 783
OCS-G-22163

Prepared by:

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Prepared For:

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Houston, Texas 77002

May 2005

(CEI 24012)

(A) Impact Producing Factors (IPFs)

The worksheet below was developed by the Minerals Management Service (MMS) and identifies IPFs that could theoretically impact the listed environmental resources. When it was determined that one of the resources may be prone to impact an "x" was placed in the corresponding IPF column and a descriptive explanation is provided. Footnotes detail the applicability of the IPF to the specific resource.

Environmental Resources	Impact Producing Factors (IPFs) Categories and Examples (Refer to a recent GOM OCS Lease Sales EIS for a more complete list of IPFs)					
	Emissions (air, light, noise, etc.)	Effluents (muds, cuttings, other discharges to water column or seafloor)	Physical Disturbances to the seafloor (rig or anchor emplacements, etc.)	Wastes sent to shore for treatment or disposal	Accidents (e.g., oil spills, chemical spills, H_2S releases)	Other IPFs identified
Site Specific at Offshore Location						
Designated Topographic Features		(1)	(1)		(1)	
Pinnacle Trend Area Live Bottoms		(2)	(2)		(2)	
Eastern Gulf Live Bottoms		(3)	(3)		(3)	
Chemosynthetic Communities			(4)			
Water Quality		X			X	
Fisheries		X			X	
Marine Mammals	(8)	X		X	(8)	
Sea Turtles	X (8)			X	(8)	
Air Quality	X (9)					
Shipwreck Sites (known or potential)			(7)			
Prehistoric Archaeological Sites			(7)			
Vicinity of Offshore Location						
Essential Fish Habitat		X			X (6)	
Marine and Pelagic Birds					X	
Public Health and Safety					(5)	
Coastal and Onshore						
Beaches					X (6)	
Wetlands					X (6)	
Shore Birds and Coastal Nesting Birds					X (6)	
Coastal Wildlife Refuges					X	
Wilderness Areas						
Other Resources Identified						

Footnotes for the Environmental Impact Analysis Matrix

1. *Activities that may affect a marine sanctuary or topographic feature. Specifically, if the well or platform site or any anchors will be on the seafloor within the:*
    a. *4-mile zone of the Flower Gardens Banks, or the 3-mile zone of Stetson Bank;*
    b. *1000-m, 1-mile or 3-mile zone of any topographic feature (submarine bank) protected by the Topographic Features Stipulation attached to an OCS lease;*
    c. *Essential Fish Habitat (EFH) criteria of 500 ft from any no-activity zone; or*
    d. *Proximity of any submarine bank (500 ft buffer zone) with relief greater than 2 meters that is not protected by the Topographic Features Stipulation attached to an OCS lease.*
2. *Activities with any bottom disturbance within an OCS lease block protected through the Live Bottom (Pinnacle Trend) Stipulation attached to an OCS lease.*
3. *Activities within any Eastern Gulf OCS block where seafloor habitats are protected by the Live Bottom (Low-relief) Stipulation attached to an OCS lease.*
4. *Activities on blocks designated by the MMS as being in water depths 400 meters or greater.*
5. *Exploration or production activities where H_2S concentrations greater than 500 ppm might be encountered.*
6. *All activities that could result in an accidental spill of produced liquid hydrocarbons or diesel fuel that is determined to impact these environmental resources. If the proposed action is located a sufficient distance from a resource that no impact would occur, the EIA will note that in a sentence or two.*
7. *All activities that involve seafloor disturbances, including anchor placement, in any OCS block designated by the MMS as having high-probability for the occurrence of shipwrecks or prehistoric sites, including such blocks that will be affected that are adjacent to the lease block in which the planned activity will occur. If the proposed activities are located at sufficient distance from a shipwreck or prehistoric site that no impact would occur, the EIA will note that in a sentence or two.*
8. *All activities that are determined to possibly have an adverse effect on endangered or threatened marine mammals or sea turtles or their critical habitats.*
9. *Production activities that involve transportation of produced fluids to shore using shuttle tankers or barges.*

(B) Analysis

Site Specific at Offshore Location

Designated Topographic Features

There are no impacts from any of the IPFs (including emissions, effluents, physical disturbances to the seafloor, shore bound wastes and accidents) expected on Designated Topographic Features due to site-specific activities. The nearest topographic feature is the North Hospital Bank located within High Island Block A117. There are also no submarine banks within Mustang Island Block 783 that have relief greater than 2 meters.

It is unlikely that an oil spill (surface or sub-surface) would occur due to any of the activities proposed. However, if a spill were to occur it is unlikely that there would be any impact to the sessile biota on the seafloor due to the approximately 160 feet of water depth in this block and the tendency for oil to rise in the water column and disperse. Any sub-sea leak also would not likely impact any banks as the hydrocarbons would be moved away and swept clear of the bank by the natural water flow around the bank. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Pinnacle Trend Area Live Bottoms

There are no impacts from any of the IPFs (including emissions, effluents, physical disturbances to the seafloor, shore bound wastes and accidents) expected on pinnacle trend area live bottoms due to site-specific activities. The nearest pinnacle trend live bottom stipulation occurs in Main Pass Area Block 290.

It is unlikely that an oil spill (surface or sub-surface) would occur due to any of the activities proposed. However, if a spill were to occur it is unlikely that there would be any impact to any pinnacle trends due to the distance to Main Pass Block 290 from Mustang Island Block 783. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Eastern Gulf Live Bottoms

There are no impacts from any of the IPFs (including emissions, effluents, physical disturbances to the seafloor, shore bound wastes and accidents) expected on eastern gulf live bottoms due to site-specific activities. The nearest live bottom stipulation occurs in Main Pass Area Block 290.

It is unlikely that an oil spill (surface or sub-surface) would occur due to any of the activities proposed. However, if a spill were to occur it is unlikely that there would be an impact to any eastern gulf live bottoms because the distance to Main Pass Block 290 is great enough to alleviate impact concerns. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Chemosynthetic Communities

The proposed activities for Mustang Island Block 783 occur at a water depth of 152 to 168 feet thereby eliminating any possibility that Chemosynthetic Communities would occur because they require a water depth of at least 400 meters or 1312 feet. Therefore none of the IPFs (including emissions, effluents, physical disturbances to the seafloor, shore bound wastes and accidents) are expected to impact these communities.

Water Quality

Effluents and accidents could possibly impact the water quality due to the proposed activities for Mustang Island Block 783. The National Pollution Discharge Elimination System (NPDES), specifically Spinnaker Exploration Company's general permit under GMG 290000 issued by the Environmental Protection Agency (EPA) will cover all discharges and the regulations coinciding with this permit will be followed. Therefore, it is unlikely that there will be any impact to the water quality due to operational discharges within Mustang Island Block 783.

It is unlikely that an oil spill (surface or sub-surface) would occur due to any of the activities proposed. However, if a spill were to occur it is unlikely that there would be any long-term impact to water quality. The spill effects to water quality would be temporary as the spilled petroleum product would disperse and break down (organic and microbial degradation), which would remove the oil from the water column or at the very least dilute the constituents to background levels. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Fisheries

Mustang Island Block 783 is within the limits of the brown shrimp moderate to high productivity area and the major finfish area. These are the only fisheries at the site-specific offshore location that could be impacted by the proposed activities. It is unlikely that any of the following IPFs would have an impact on fisheries within Mustang Island Block 783: emissions, physical disturbances to the seafloor, and shore bound wastes. However, an effluent discharge or an accidental spill has the possibility of causing some impact to the fisheries.

An accidental oil spill or effluent discharge that may occur due to the proposed activities for Mustang Island Block 783 is unlikely. However, if either did occur it would most likely have a sub-lethal effect on the finfish or shellfish in the area because the hydrocarbons can be metabolized and increased exposure can be avoided. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Marine Mammals

There may be adverse impacts by several IPFs (including vessel traffic, noise, accidental oil spills, and loss of trash or debris) to marine mammals within Mustang Island Block 783 due to the proposed activities. The only lethal effects would be due to ingestion of plastic materials, collision with a vessel or oil spills. These events, if occurring at all, would be very rare. There are also many sublethal effects of IPFs such

as noise and effluent discharge that could have chronic and sporadic effects to individuals within the population or to family groups by increasing stress levels which could cause a general weakening in individuals. This weakening would lead to increased possibilities for infection and make them more susceptible to parasitic infestation both of which might not normally be fatal. These sublethal events are not expected and are considered to be very rare occurrences.

Any disturbance could stress and possibly harm individual marine mammals but it is likely that they would travel to other areas within their home range. Both fatal and sub-fatal incidents are unlikely and are unexpected barring catastrophic events.

Sea Turtles

IPFs that could theoretically impact sea turtles include vessel traffic, noise, shore bound waste and trash losses, and accidental oil spills. These impacts could be as small as a slight stressor to an individual or as severe as to cause fatalities.

Oil spills could cause fatalities due to ingestion of oiled food, oil particles and contact with oil. The Oil Spill Pollution Act of 1990 has response planning techniques and protections in place to alleviate most of these issues. Chance collisions with vessels could occur, however, these are considered very uncommon events, as is the ingestion of plastic trash or waste material. Stress is also possible due to noise from drilling rigs and associated vessels, which could lead to increased susceptibility to disease.

The majority of the IPFs that could occur to sea turtles are not expected to be lethal however there is the possibility of gradual declines in survival and reproductive rates, which would detrimentally effect populations on a larger scale. These population effects are not typical and as stated above the Oil Spill Pollution Act of 1990 has some mitigative measures in place. Any disturbance could stress and possibly harm individual sea turtles but it is likely that they would travel to other areas within their home range. Both fatal and sub-fatal incidents are unlikely and are unexpected barring catastrophic events.

Air Quality

No IPFs at the site-specific location within Mustang Island Block 783 are expected to impact air quality to a degree that would go above acceptable levels. Emissions will be kept within generally acceptable standards, and effluents, physical disturbances to the seafloor, and shore bound wastes are not expected to impact the air quality. In the unlikely event of an accidental oil spill, the air quality may be impacted due to the spill and response activities, however, even then the impacts would be kept to a minimum. Air quality analyses of the proposed activities indicate that the MMS exemption level is not and will not be exceeded.

Shipwreck Sites

There are no known shipwreck sites within Mustang Island Block 783. This area is located within the MMS zone that requires a 50-meter survey grid. The survey of the block in question did not find evidence of any shipwrecks. The nearest shipwreck was the *Regulator* in Mustang Island Area block 762. Therefore, no IPFs, including physical disturbances to the seafloor, would cause any impacts to this environmental resource.

Prehistoric Archaeological Sites

There are no IPFs including physical disturbances to the seafloor from the proposed activities that could cause impacts to known or potential prehistoric archeological sites and the archeological assessment performed by Thales assesses the area as having a poor chance of significant prehistoric cultural resources being present. No sites were found during the survey. Effluents, emissions, shore bound wastes and accidents would not be expected to impact any archaeological sites if they were present.

Vicinity of Offshore Location

Essential Fish Habitat

Mustang Island Block 783 is within the limits of the brown shrimp moderate to high productivity area and the major finfish area. There are no other designated fisheries near this block, and the oyster leases and blue crab fishing areas to the north, near the coast, would also be at such a distance as to have no possibility for impact. It is unlikely that any of the following IPFs would have an impact on fisheries within Mustang Island Block 783: emissions, physical disturbances to the seafloor, and shore bound wastes. However, an effluent discharge or an accidental spill has the possibility of causing some impact to fisheries and essential fish habitat.

An accidental oil spill or effluent discharge that may occur due to the proposed activities for Mustang Island Block 783 is unlikely. If either did occur it would most likely have a sub-lethal effect on the finfish or shellfish in the area of impact because the hydrocarbons can be metabolized and increased exposure can be avoided. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Marine and Pelagic Birds

Most of the IPFs would have no effect on marine and pelagic bird species. Effluents, emissions, physical disturbances to the seafloor and shore bound wastes would not affect any avian species. An accidental oil spill could have a detrimental effect on individual birds that could become oiled and possibly ingest an oil product. It is unlikely that a spill would occur from the proposed activities in Mustang Island Block 783 and if one did occur the activities in this plan would be covered under Spinnaker Exploration Company's regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08.) which would help to defray some of the possible impacts to marine and pelagic avian species.

Public Health and Safety

There are no IPFs (including emissions, effluents, physical disturbances to the seafloor, shore bound wastes and accidents) that would cause any harm to public health and safety. In accordance with 30 CFR 250.417(c) and NTL 2002 Appendix C Spinnaker Exploration Company has submitted sufficient information to justify their request that the

proposed activities for Mustang Island Block 783 be classified by the MMS as H_2S absent.

Coastal and Onshore

Beaches

With the exception of an oil spill no IPFs are expected to impact any of the beaches in onshore locations. Upon review of OCS EIA/EA MMS 2002-02 publication the historical spill data and trajectory / risk calculations show that there would be a small risk to Kleberg, Nueces, or Aransas Counties. If an oil spill were to occur there would be at the highest a 13/21/22 percent chance (3, 10, and 30 days, respectively) that the spill would impact any beaches on the shore of Kleberg, Nueces, or Aransas Counties, which are over 20 miles away from Mustang Island Block 783.

Due to the distance from shore and the response capabilities that would be implemented it is highly unlikely that if an oil spill did occur it would impact any beaches along the shoreline. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Wetlands

With the exception of an oil spill no IPFs are expected to impact any of the wetlands in onshore locations. Upon review of OCS EIA/EA MMS 2002-02 publication the historical spill data and trajectory / risk calculations show that there would be a small risk to Kleberg, Nueces, or Aransas Counties. If an oil spill were to occur there would be a 13/21/22 percent chance (3, 10, and 30 days, respectively) that the spill would impact the wetlands of Kleberg, Nueces, or Aransas Counties, which are over 20 miles away from Mustang Island Block 783.

Due to the distance from shore and the response capabilities that would be implemented it is highly unlikely that if an oil spill did occur it would impact any wetland areas along the shoreline. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Shore Birds and Coastal Nesting Birds

With the exception of an oil spill no IPFs are expected to impact any of the shore birds or coastal nesting birds in onshore locations. Upon review of OCS EIA/EA MMS 2002-02 publication the historical spill data and trajectory / risk calculations show that there would be a small risk to Kleberg, Nueces, or Aransas Counties bird colonies. If an oil spill were to occur there would be a 13/21/22 percent chance (3, 10, and 30 days, respectively) that the spill would impact shore birds, rookeries, or other coastal nesting birds in Kleberg, Nueces, or Aransas Counties, which are over 20 miles away from Mustang Island Block 783.

Due to this distance from shore, the small impact possibility, and the response capabilities that would be implemented it is highly unlikely that if an oil spill did occur it would impact any shore or coastal nesting bird areas along the shoreline. The activities

proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Coastal Wildlife Refuges

With the exception of an oil spill no IPFs are expected to impact any of the coastal wildlife refuges in onshore locations. Upon review of OCS EIA/EA MMS 2002-02 publication the historical spill data and trajectory / risk calculations show that there would be a small risk to refuges in Kleberg, Nueces, or Aransas Counties. If an oil spill were to occur there would be a 13/21/22 percent chance (3, 10, and 30 days, respectively) that the spill would impact any refuges in Kleberg, Nueces, or Aransas Counties, which are over 20 miles away from Mustang Island Block 783.

Due to this distance from shore, the small impact possibility, and the response capabilities that would be implemented it is highly unlikely that if an oil spill did occur it would impact any coastal wildlife refuges along the shoreline. The activities proposed in this plan will be covered by Spinnaker Exploration Company's regional OSRP (refer to Section F which contains the information submitted in accordance with NTL 2002-G08).

Wilderness Areas

No IPFs associated with the proposed activities in Mustang Island Block 783 are expected to impact any wilderness areas in onshore locations. The only wilderness areas in Texas, as designated by the U.S. Congress, are Indian Mounds, Turkey Hill, Big Slough, Upland Island, Little Lake Creek and Guadalupe Mountains, all of which are located in Eastern central or Western Texas, hundreds of miles away and land locked.

Other Environmental Resources Identified

It is expected that the proposed activities in Mustang Island Block 783 will have no other environmental resources identified or impacted.

(C) Impacts on Mustang Island Block 783 Proposed Activities

It is expected that the proposed activities in Mustang Island Block 783 will have no impacts on site specific, offshore vicinity, or coastal and onshore environmental conditions. The conditions of the site have been analyzed in order to make this judgment.

(D) Alternatives

Due to the lack of environmental impacts no alternative was considered for the proposed activities in Mustang Island Block 783.

(E) Mitigation Measures

Aside from measures required by regulation no mitigative steps will be taken to avoid, diminish, or eliminate potential impacts on environmental resources.

(F) Consultation

Coastal Environments, Inc. scientists were consulted regarding potential for impacts to environmental resources due to the proposed activities in Mustang Island Block 783.

(G) References

Although not necessarily cited the following were utilized in preparing the Environmental Impact Analysis:

Archaeological and Hazard Survey of Block 783, Mustang Island Area, (OCS-G-22163) for Spinnaker Exploration Company, LLC. April 2004.

Lowery, George H. 1974. The Mammals of Louisiana and its Adjacent Waters. Louisiana State University Press, Baton Rouge, 565 pp.

Schmidly, D.J. 1981. Marine mammals of the southeastern United States Gulf Coast and the Gulf of Mexico. U.S. Fish and Wildlife Service, Washington, D.C. FWS/OBS-80/41. 163 pp.

U.S. Department of the Interior, Fish and Wildlife Service. 1976. Endangered and threatened species of the southeastern United States. Region IV, Atlanta, Georgia (periodically updated).

U.S. Department of the Interior, Minerals Management Service. Gulf of Mexico OCS Oil and Gas Lease Sales: 2003-2007, Central Planning Area Sales 185, 190, 194, and 201; Western Planning Area Sales 187, 192, 196, and 200; Final Environmental Impact Statement, Volume I: Chapters 1-10; Volume II Figures and Tables. OCS EIA/EA MMS 2002-052.

U.S. Department of the Interior, Minerals Management Service, Visual No. 4-1, 1983. Offshore Fisheries. Gulf of Mexico OCS Region, Metairie, Louisiana. Map.

SECTION I

COASTAL ZONE CONSISTENCY

COASTAL ZONE CONSISTENCY CERTIFICATION

Issues identified in the Texas Coastal Zone Management Program include the following: general coastal use guidelines, levees, linear facilities (pipelines); dredged soil deposition; shoreline modification, surface alterations, hydrologic and sediment transport modifications; waste disposal; uses that result in the alteration of waters draining into coastal waters; oil, gas or other mineral activities; and air and water quality.

The Certificate of Coastal Zone Management Consistency for the State of Texas is enclosed as **Attachment I-1**. A discussion of Texas's Enforceable Policies is included as **Attachments I-2**.

COASTAL ZONE MANAGEMENT

CONSISTENCY CERTIFICATION

INITIAL EXPLORATION PLAN

MUSTANG ISLAND BLOCK 783

LEASE OCS-G 22163

The proposed activities described in this Plan comply with Texas's approved Coastal Zone Management Program and will be conducted in a manner consistent with such Program.

Spinnaker Exploration Company, L.L.C.
Lessee or Operator

Thomas G. Becnel
Certifying Official

May 24, 2005
Date

ATTACHMENT I-1

SECTION I
COASTAL ZONE MANAGEMENT

(A) Consistency certification

See Attachment I-1.

(B) Other information

(1) A detailed description of the proposed activity, its associated facilities, the coastal effects and comprehensive data and information sufficient to support the consistency certification is provided in the EP.

(2) Information specifically identified in the State's management program as required data and information has been provided in the EP.

(3) An evaluation that includes a set of findings, relating the coastal effects of the proposed activities to Texas' relevant enforceable policies of the State's management program. The State of Texas has provided to MMS a list of enforceable policies.

The following assurance of compliance with existing Federal and State laws, regulations and resultant enforceable program policies in Texas's CZMP is provided:

> *The proposed activity will be carried out and completed with the guarantee that: The best available and safest technologies will be used throughout the project. These include meeting all applicable requirements for equipment types, general project layout, safety systems, and equipment and monitoring systems. All operations will be covered by an approved oil spill response plan. All applicable Federal, State and local requirements regarding air emissions and water quality and discharge for the proposed activities, as well as any other permit conditions, will be complied with.*

Texas Coastal Zone Management Program

Category 2: Construction, Operation and Maintenance of Oil and Gas Exploration and Production Facilities

*The proposed facility is located approximately **29.9** miles from the Texas coast line; therefore, no impact to Texas' coastal zone is expected.*

Category 3 Discharges of Wastewater and Disposal of Waste from Oil and Gas Exploration and Production Activities

The discharge of wastewater and disposal of waste from the proposed activities will not occur within the coastal zone of Texas; therefore, no impact to Texas's coastal zone is expected.

Category 4 Construction and Operation of Solid Waste Treatment, Storage, and Disposal Facilities

No solid waste treatment, storage or disposal facilities are proposed as a part of this plan. Therefore, no impacts to Texas' coastal zone are expected.

Category 5 Prevention, Response, and Remediation of Oil Spills

As described in the EP, pollution prevention has been considered in the design of the proposed facilities and in developing the operating plans. Further, the proposed activities will be covered under a Regional Oil Spill Response Plan. The proposed activities are located approximately ***29.9*** *miles from the Texas coast line; therefore, no impacts to Texas coastal zone are expected.*

Category 6 Discharge of Municipal and Industrial Waster Water to Coastal Waters

No discharges from the proposed activities will occur in coastal waters; therefore, no impacts to Texas's coastal zone are expected.

Category 8 Development in Critical Areas

None of the proposed activities occur in critical areas; therefore no impacts to Texas's coastal zone are expected.

Category 9 Construction of Waterfront Facilities and Other Structures on Submerged lands

The proposed activities do not include the construction of waterfront facilities or other structures on submerged lands in the coastal zone; therefore, no impacts to Texas' coastal zone are expected.

Category 10 Dredging and Dredged Material Disposal and Placement

The proposed activities do not include any dredging activities; therefore, no impacts to Texas' coastal zone are expected.

Category 11 Construction in the Beach / Dune System

The proposed activities do not include any construction in the beach/dune system; therefore, no impacts to Texas' coastal zone are expected.

Category 15 Alteration of Coastal Historic Areas

The proposed activities do not include any alteration or disturbance of a coastal historic area; therefore, not impacts to Texas' coastal zone are expected.

Category 16 Transportation

No transportation projects within the coastal zone are proposed; therefore, no impacts to Texas' costal zone are expected.

Category 17 Emission of Air Pollutants

The impacts from the emission of air pollutants have been evaluated in the EP. The proposed activities occur approximately ***29.9*** *miles from the coastline. All of the emissions are within the exemption level established by MMS. Therefore, no impacts to Texas' coastal zone are expected.*

Category 18 Appropriations of Water

The proposed activities do not include the diversion or impoundment of state water's; therefore, no impacts to Texas' coastal zone are expected.

Category 20 Marine Fishery Management

The proposed activities are located approximately ***29.9*** *miles from the coast line and are not expected to have any affect on fishery management within coastal waters. Therefore, no impacts to Texas' coastal zone are expected.*

Category 22 Administrative Policies

Information has been provided for the agency to make an informed decision on the proposed action.

SECTION J

PLAN INFORMATION FORM

Included in this section as **Attachment J-1** is the Plan Information Form prepared in accordance with Appendix J of the Notice of Lessees NTL 2000-G10.

Included as **Attachment J-2,** is the Bathymetry Map.

U. S. Department of the Interior
Minerals Management Service

OMB Control Number: 1010-0049
OMB Approval Expires: August 31, 2006

OCS PLAN INFORMATION FORM

General Information

Type of OCS Plan:	X	Exploration Plan (EP)	Development Operations Coordination Document (DOCD)
Company Name: **Spinnaker Exploration Company, L.L.C.**			MMS Operator Number: **02169**
Address: **1200 Smith Street, Suite 800**			Contact Person: **Tom Becnel**
Houston, Texas 77002			Phone Number: **713-356-7534**
			E-Mail Address: **tbecnel@spinexp.com**

Lease(s): **G 22163**	Area: **MU**	Block(s): **783**	Project Name (If Applicable):

Objective(s):		Oil	X	Gas		Sulphur		Salt	Onshore Base: **Harbor Island**	Distance to Closest Land (Miles): **29.9**

Description of Proposed Activities (Mark all that apply)

X	Exploration drilling		Development drilling
	Well completion		Installation of production platform
	Well test flaring (for more than 48 hours)		Installation of production facilities
	Installation of caisson or platform as well protection structure		Installation of satellite structure
	Installation of subsea wellheads and/or manifolds		Commence production
	Installation of lease term pipelines	X	Other (Specify and describe) **Net Guard & Buoy**

Have you submitted or do you plan to submit a Conservation Information Document to accompany this plan?		Yes	X	No
Do you propose to use new or unusual technology to conduct your activities?		Yes	X	No
Do you propose any facility that will serve as a host facility for deepwater subsea development?		Yes	X	No
Do you propose any activities that may disturb an MMS-designated high-probability archaeological area?		Yes	X	No
Have all of the surface locations of your proposed activities been previously reviewed and approved by MMS?		Yes	X	No

Tentative Schedule of Proposed Activities

Proposed Activity	Start Date	End Date	No. of Days
Drill & MLA & install net guards and buoys over wells 'A' and 'B'.	**20050715**	**20051012**	**90**

Description of Drilling Rig

X	Jackup		Drillship
	Gorilla Jackup		Platform rig
	Semisubmersible		Submersible
	DP Semisubmersible		Other (Attach Description)
Drilling Rig Name (If Known):			

Description of Production Platform

	Caisson		Tension leg platform
	Well protector		Compliant tower
	Fixed platform		Guyed tower
	Subsea manifold		Floating production system
	Spar		Other (Attach Description)

Description of Lease Term Pipelines

From (Facility/Area/Block)	To (Facility/Area/Block)	Diameter (Inches)	Length (Feet)
NA			

ATTACHMENT J-1

OCS PLAN INFORMATION FORM (CONTINUED)

Include one copy of this page for each proposed well/structure

Proposed Well/Structure Location			
Well or Structure Name/Number (If renaming well or structure, reference previous name): **A**			Subsea Completion:
Anchor Radius (if applicable) in feet: **NA**			Yes: ; **X** No
	Surface Location	**Bottom-Hole Location (For Wells)**	
Lease No.	**OCS G 22163**	**OCS G 22163**	
Area Name	**Mustang Island**	**Mustang Island**	
Block No.	**783**	**783**	
Blockline Departures (in feet)	N/S Departure **500** **FNL**	N/S Departure:	
	E/W Departure: **330** **FEL**	E/W Departure:	
Lambert X-Y coordinates	X: **2,616,845.32**	X:	
	Y: **729,049.75**	Y:	
Latitude/ Longitude	Latitude **27-39-34.533**	Latitude	
	Longitude **96-35-39.777**	Longitude	
	TVD (Feet):	MD (Feet): **10466**	Water Depth (Feet): **160**

Anchor Locations for Drilling Rig or Construction Barge (If anchor radius supplied above, not necessary)

Anchor Name or No.	Area	Block	X Coordinate	Y Coordinate	Length of Anchor Chain on Seafloor
NA					

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. Chapter 35) requires us to inform you that MMS collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for MMS approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. The use of this form is voluntary. The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 580 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

OCS PLAN INFORMATION FORM (CONTINUED)

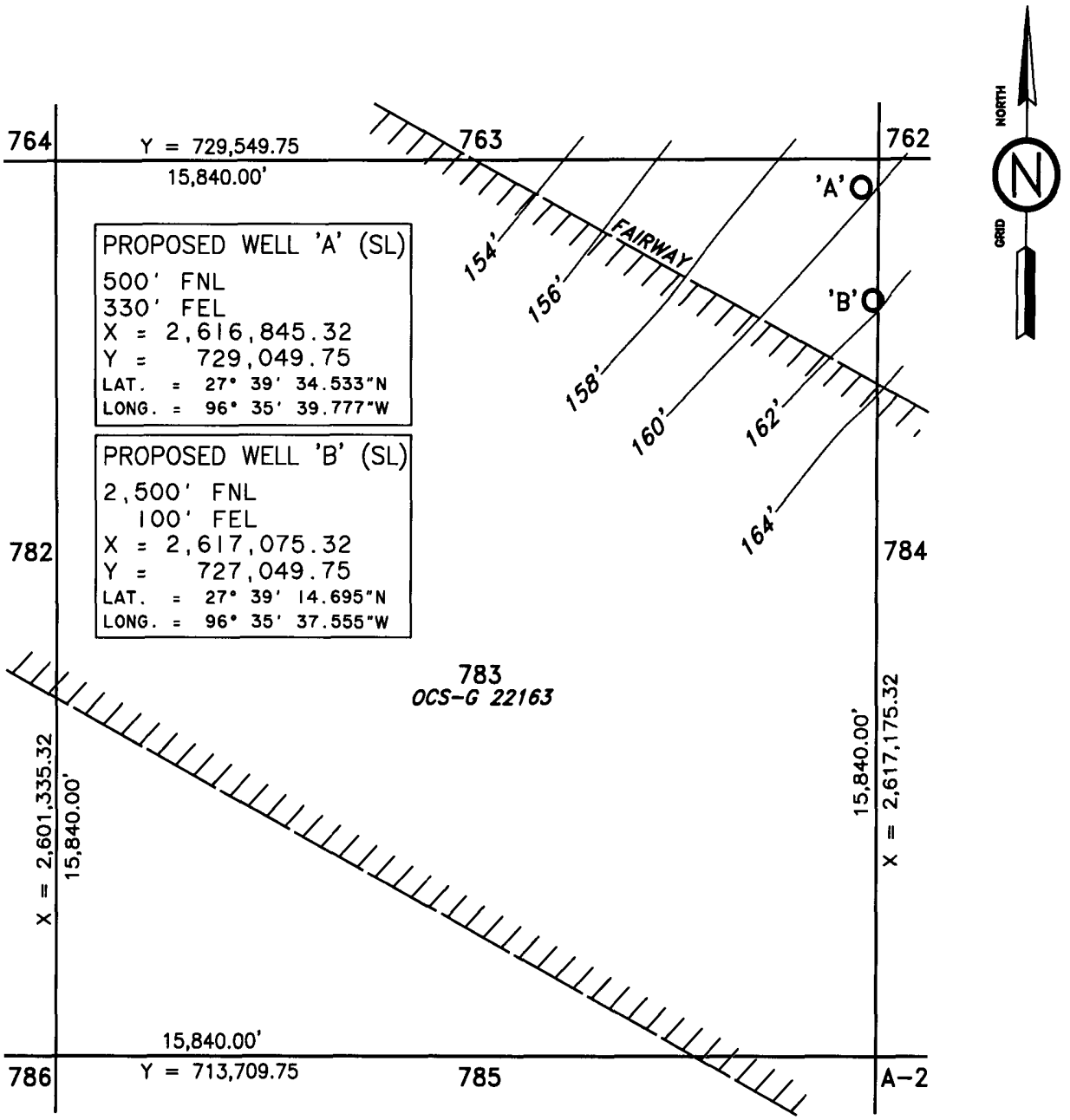
Include one copy of this page for each proposed well/structure

Proposed Well/Structure Location			
Well or Structure Name/Number (If renaming well or structure, reference previous name): **B**			Subsea Completion:
Anchor Radius (if applicable) in feet: **NA**			Yes: ; **X** No
	Surface Location	**Bottom-Hole Location (For Wells)**	
Lease No.	**OCS G 22163**	**OCS G 22163**	
Area Name	**Mustang Island**	**Mustang Island**	
Block No.	**783**	**783**	
Blockline Departures (in feet)	N/S Departure: **2500** **FNL**	N/S Departure:	
	E/W Departure: **100** **FEL**	E/W Departure:	
Lambert X-Y coordinates	X: **2,617,075.32**	X:	
	Y: **727,049.75**	Y:	
Latitude/ Longitude	Latitude: **27-39-14.695**	Latitude:	
	Longitude: **96-35-37.555**	Longitude:	
	TVD (Feet):	MD (Feet): **9912**	Water Depth (Feet): **162**

Anchor Locations for Drilling Rig or Construction Barge (If anchor radius supplied above, not necessary)

Anchor Name or No.	Area	Block	X Coordinate	Y Coordinate	Length of Anchor Chain on Seafloor
NA					

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. Chapter 35) requires us to inform you that MMS collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for MMS approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. The use of this form is voluntary. The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 580 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.



SURVEY PERFORMED BY K.C. OFFSHORE IN OCTOBER, 1993

1,500 0 1,500 3,000

SCALE IN FEET

DATUM:	NAD 27
SPHEROID:	CLARKE 1866
PROJECTION:	LAMBERT
ZONE:	TEXAS SOUTH

PUBLIC INFORMATION

GEOPHYSICAL SURVEY

BATHYMETRY

BLOCK 783
MUSTANG ISLAND AREA

GULF OF MEXICO

SPINNAKER EXPLORATION COMPANY, L.L.C.

TESLA OFFSHORE, LLC
36499 Perkins Road
Prairieville, Louisiana 70769
Tel: 225-673-2163
Fax: 225-744-3116

PREP. MWG	INT.	CAD MWG	APP. JSL	FILE NO. 05-170SMBAT
CHK. JSL	CHK.	CHK. JSL	DATE 05/19/2005	