

UNITED STATES GOVERNMENT  
MEMORANDUM

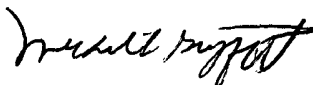
April 23, 2004

To: Public Information (MS 5034)  
From: Plan Coordinator, FO, Plans Section (MS 5231)  
Subject: Public Information copy of plan

Control # - S-06411  
Type - Supplemental Development Operations Coordinations Document  
Lease(s) - OCS-G03235 Block - 139 High Island Area  
Operator - Apex Oil & Gas, Inc.  
Description - Well No. 11  
Rig Type - Not Found

Attached is a copy of the subject plan.

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



Michelle Griffitt  
Plan Coordinator

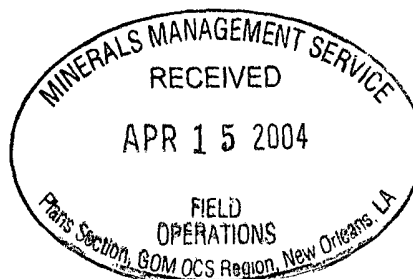
Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
WELL/11	G03235/HI/139	4048 FNL, 7802 FEL	G03235/HI/139

ISS APR 26 04 PM 12:14

NOTED - SCHEXNAILDRE



350 N. Sam Houston Pkwy E.  
Suite 295 Houston, TX 77060  
Phone: 281.591.8880 Fax: 281.591.8881



April 14, 2004

Mr. Donald C. Howard  
Office of Field Operations  
Minerals Management Service  
1201 Elmwood Park Boulevard  
MS 5230  
New Orleans, LA 70123-2394

RE: Supplemental Development Operations Coordination Document  
Lease OCS-G 3235, High Island Block 139  
OCS Federal Waters, Gulf of Mexico, Offshore Texas

Gentlemen:

In accordance with the provisions of Title 30 CFR 250.203 and NTL 2003-G17, Apex Oil & Gas, Inc. hereby submits for your review and approval eight (8) copies of a Supplemental Development Operations Coordination Document (Plan) for Lease OCS-G 3235, High Island Area, Block 139, Offshore Texas. Five (5) copies are "Proprietary Information" and three (3) copies are "Public Information".


Excluded from the Public Information copies are certain Geologic discussions, depths of well(s) and structure maps.

Apex Oil & Gas, Inc. anticipates commencing activities under this proposed plan on or about June 1, 2004.

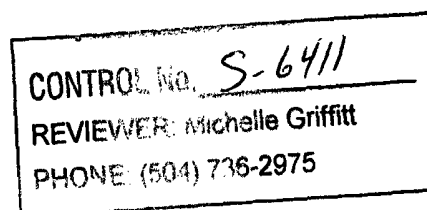
Should additional information be required, please contact Beth Atwood, PPI Technology Services, Inc. at 713-463-2330 or by e-mail at batwood@ppitech.net.

Sincerely,

APEX OIL & GAS, INC.

 Gary J. Patin  
Vice President

Enclosures



**PUBLIC INFORMATION**

**Apex Oil & Gas, Inc.**  
**Supplemental Development Operations Coordination Document**  
**High Island Area, Block 139**  
**Lease OCS-G 3235**

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## **Appendix A** **CONTENTS OF PLAN**

In accordance with 43 CFR 2.13 (c)(9), those items considered proprietary have been omitted from the Public Information copy and have been referenced accordingly.

### **A.    LEASE DESCRIPTION / ACTIVITY**

Apex Oil & Gas, Inc. is the designated operator of the E/2 of the subject oil and gas lease. Dunhill remains the operator of Platform "A" and several wells operated by Dunhill Resources, Inc. Lease OCS-G 3235 is held by operations conducted on Well No. 11 (currently drilling).

Under this Supplemental DOCD, Apex Oil & Gas proposes to install a 4" ROW pipeline from Apex's High Island 139 Well No. 11, OCS-G 3235 to Dunhill's existing Platform A, High Island Block 139, OCS-G 3235 and commence production.

**Attachment A-1** is MMS Form 137 with a tentative schedule leading up to commencement of production as proposed in this Plan.

### **B.    LOCATION / MAPS**

Included in this section is the Well Location Map (**Attachment A-2**). The map shows the surface location(s) of all existing and proposed well(s) and proposed platforms with any associated anchors (if applicable). Please note, bottom hole locations, MD & TVD depths are omitted from the Public Information Copy.

### **C.    DRILLING**

There will be no additional drilling conducted under this Supplemental DOCD.

### **D.    PRODUCTION FACILITY**

Under this Supplemental DOCD Apex proposes to produce Well No. 11 via proposed 4" ROW pipeline from Well No. 11 to Dunhill's existing Platform "A", High Island Block 139. The well protector structure will be installed with the rig prior to completion of the well under the Supplemental Exploration Plan. Included as **Attachment A-3**, is an elevation drawing of the well protector structure.

Safety features will include well control, pollution prevention, welding procedure, and blowout prevention equipment as described in Title 30 CFR Part 250, Subparts C, D, E, G and O; and as further clarified by MMS Notice to Lessees, and current policy making invoked by the MMS.

***No new nearshore or onshore pipelines or facilities will be constructed under this Supplemental DOCD.***

## **PUBLIC INFORMATION**

# ATTACHMENT A-1

## OCS PLAN INFORMATION FORM

General Information													
Type of OCS Plan:	Exploration Plan (EP)			<input checked="" type="checkbox"/>		Development Operations Coordination Document (DOCD)							
Company Name: <b>Apex Oil &amp; Gas Inc.</b>				MMS Operator Number: <b>01963</b>									
Address: <b>350 N. Sam Houston Pkwy, Suite 295 Houston, TX 77060</b>				Contact Person: <b>Beth Atwood</b>									
				Phone Number: <b>713-463-2330</b>									
				E-Mail Address: <b>batwood@ppitech.net</b>									
Lease: OCS-G 3235		Area: <b>High Island</b>			Block: <b>139</b>		Project Name (If Applicable): <b>NA</b>						
Objective(s):		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onshore Base <b>Pelican Island, TX</b>		Distance to Closest Land (Miles): <b>15</b>		
Description of Proposed Activities (Mark all that apply)													
<input type="checkbox"/> Exploration drilling				<input type="checkbox"/> Development drilling									
<input type="checkbox"/> Well completion				<input type="checkbox"/> Installation of production platform									
<input type="checkbox"/> Well test flaring				<input type="checkbox"/> Installation of production facilities									
<input type="checkbox"/> Installation of well protection structure				<input type="checkbox"/> Installation of satellite structure									
<input type="checkbox"/> Installation of subsea wellheads and/or manifolds				<input type="checkbox"/> Installation of lease term pipelines									
<input type="checkbox"/> Temporary well abandonment				<input checked="" type="checkbox"/>		<input type="checkbox"/> Commence production							
<input type="checkbox"/> Other (Specify and describe)													
Do you propose to use new or unusual technology to conduct your activities?										<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> X	No
Do you propose any facility that will serve as a host facility for deepwater subsea development?										<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> X	No
Do you propose any activities that may disturb an MMS-designated high-probability archaeological area?										<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> X	No
Tentative Schedule of Proposed Activities													
Proposed Activity						Start Date		End Date		No. of Days			
Right-of-Way Pipeline Installation (permitted separately)						5-15-04		5-30-04		15			
Commence Production						6-1-04							
Description of Drilling Rig						Description of Production Platform							
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship		<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform							
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig		<input type="checkbox"/> Well protector		<input type="checkbox"/> Compliant tower							
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible		<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Guyed tower							
<input type="checkbox"/> DP Semisubmersible		<input type="checkbox"/> Other (Attach Description)		<input type="checkbox"/> Subsea manifold		<input type="checkbox"/> Floating production system							
Drilling Rig Name (If Known):				<input type="checkbox"/> Spar		<input type="checkbox"/> Other (Attach Description)							
Description of Lease Term Pipelines													
From (Facility/Area/Block)			To (Facility/Area/Block)			Diameter (Inches)		Length (Feet)		Product			
NA													

**OCS PLAN INFORMATION FORM (CONTINUED)**

Proposed Well/Structure Location				
Well or Structure Name/Number: <b>Well No. 11</b>			Subsea Completion	
Anchor Radius (if applicable) in feet: <b>NA</b>			<input type="checkbox"/>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> X <input type="checkbox"/> No
	Surface Location		Bottom-Hole Location (For Wells)	
Lease No.	OCS-G 3235			
Area Name	High Island			
Block No.	139			
Block line Departures (in feet)	N/S Departure: <b>4048' FNL</b>		N/S Departure:	
	E/W Departure: <b>7802' FEL</b>		E/W Departure:	
Lambert X-Y coordinates	X: <b>3,499,674</b>		X:	
	Y: <b>558,272</b>		Y:	
Latitude/ Longitude	Latitude: <b>29° 17' 08.815" N</b>		Latitude	
	Longitude: <b>94° 17' 38.567" W</b>		Longitude:	
	TVD (Feet):	MD (Feet):	Water Depth (Feet): <b>51'</b>	
Anchor Locations for Drilling Rig or Construction Barge – NOT APPLICABLE				

OCS-G-03235  
Well #9 ○

OCS-G-03235  
Well #4 ○

OCS-G-03235 No. 11  
PROP. SURF. LOCATION

X= 3,499,673.81'  
Y= 558,272.00'  
Lat= 29°17'08.825"N  
Lon= 94°17'38.486"W  
WATER DEPTH = 51'

Well #11

7,802.00'

OCS-G-03235  
Well #5

"A"

## BLOCK 139

OCS-G-03235  
DUNHILL RESOURCES

○  
OCS-G-03235  
Well #10

## PUBLIC INFORMATION

HIGH ISLAND AREA  
GULF OF MEXICO

Y=546,480.00'

TRANSFORMATION METHOD (WGS84, NAD27) = NADCON / CONUS

HI157

SCALE: 1"=2,000'

I, RALPH A. COLEMAN, HEREBY CERTIFY THAT THE  
ABOVE PROPOSED SURFACE LOCATION IS CORRECT.

NO

RALPH A. COLEMAN  
PROFESSIONAL LAND SURVEYOR  
LOUISIANA REGISTRATION No. 4691

DATE: 03/23/2004 TIME: 12:07 FILENAME: J:\4668-4713\PERMITS\FSL4668.DWG

PREPARED  
BY:



**C&C Technologies**  
SURVEY SERVICES  
730 E. KALISTE SALOOM ROAD, LAFAYETTE, LA (337) 261-0660

JOB No: 4668-4713

FILENAME: FSL4668.DWG

REVISED:

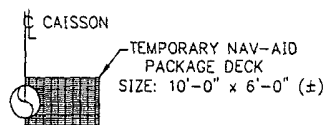
DATE: 03/23/2003

SHEET 1 OF 1

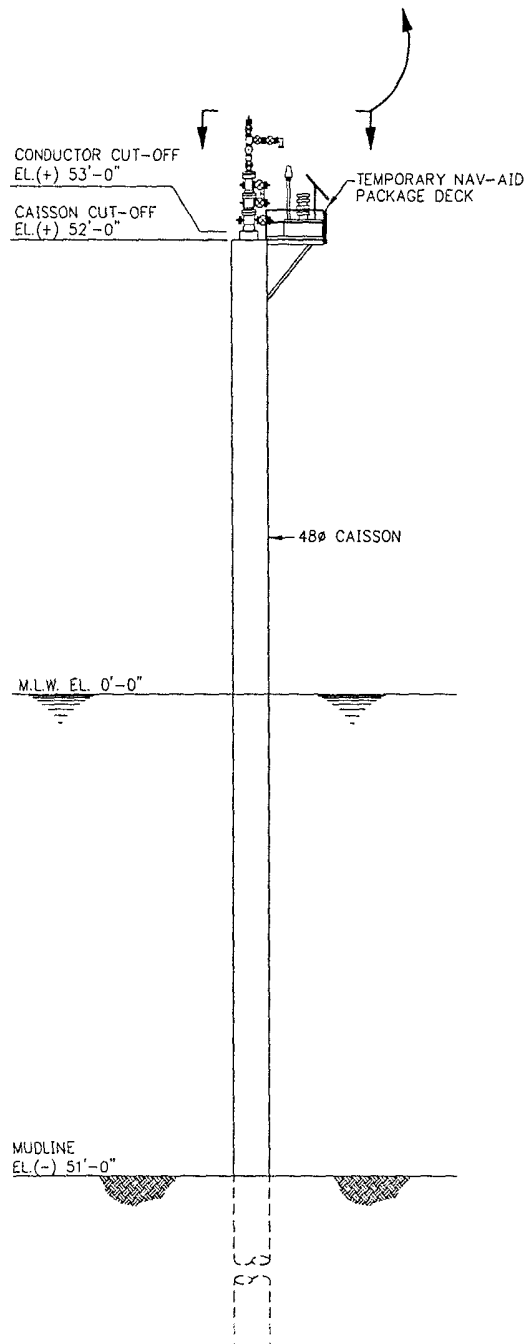
## PUBLIC INFORMATION

### APEX OIL & GAS, INC.

OCS-G-03235 Well No. 11  
BLOCK 139 - HIGH ISLAND AREA



PLAN AT NAV AID DECK



CAISSON ELEVATION

ISSUED FOR INFORMATION  
24MAR04

NOTES:

**Upstream Engineering LLC**

"Providing Value Added Engineering Services"  
HOUSTON, TEXAS www.upstreamengineering.com (281) 531-0047

DESIGNED BY: G. ALFORD SCALE: AS NOTED

DRAWN BY: G. ALFORD DATE: 24MAR04

CHECKED BY: DATE:

**APEX OIL & GAS, INC.**

HIGH ISLAND AREA BLOCK 139 WELL NO. 11  
OCS-G-03235

**CAISSON ELEVATION**

UE NO.: P04-020 DWG NO.: MMS-001 REV. No.: 0

03/24/04 14:47 G. ALFORD

F:\Projects\P04-020 Apex HI 139-11\Structural Engineering\HI 139-11 Caisson Elevation 3-24-04.dwg



## **Appendix B**

### **GENERAL INFORMATION**

In accordance with 43 CFR 2.13 (c)(9), those items considered proprietary have been omitted from the Public Information copy and have been referenced accordingly.

#### **A. CONTACT**

Inquiries may be made to the following authorized representative:

Beth Atwood  
800 Gessner, Suite 900  
Houston, Texas 77024  
713-463-2330  
Email: [batwood@ppitech.net](mailto:batwood@ppitech.net)

#### **PROJECT NAME**

Apex Oil & Gas, Inc. does not commonly refer to project names for their projects.

#### **C. PRODUCTION RATES AND LIFE OF RESERVES - Proprietary Data (Omitted from PI Copy)**

#### **D. NEW OR UNUSUAL TECHNOLOGY**

Apex Oil & Gas does not propose the use of any new or unusual technology in the activities proposed under this plan.

#### **E. BONDING INFORMATION**

In accordance with regulations contained in Title 30 CFR Part 256, Subpart I, and further clarified by NTL 2000-G16 pertaining to general lease surety bonds, Dunhill has on file with the Minerals Management Service a \$3,000,000 Area Wide bond. Apex will conduct the proposed development operations under Dunhill's Bond as was approved for the Supplemental Exploration Plan.

Additionally, NTL 2003-N06 provides clarification on the method MMS utilizes to require additional security to cover full plugging, site clearance and other associated lease liabilities that 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 Apex.

## **F. ONSHORE BASE AND SUPPORT VESSELS**

High Island Block 139 is located approximately 15 miles from the nearest Texas coastline and approximately 25 miles from the onshore support base located at Midstream Dock, Pelican Island, Texas. A Vicinity Plat showing the location of High Island Block 139 relative to the shoreline and the onshore base is included as **Attachment B-1**.

Shorebase	Location	Existing, New or Modified
Midstream Dock	Pelican Island, TX	Existing

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. The 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. The facilities typically include outdoor storage, forklift and crane service, dock, trailer facilities, a radio tower with a phone patch and parking, as well as 24-hour service.

*Support vessels will not be needed during the operations proposed under this plan*

## **G. LEASE STIPULATIONS**

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

Minerals Management Service did not invoke lease stipulation(s) on Lease OCS-G 3235, High Island Block 139.

## **H. RELATED OCS FACILITIES AND OPERATIONS**

As mentioned in Appendix A, Well No. 11 will be drilled, completed and suspended under the Supplemental Exploration Plan. A well protector will be driven over the well after drilling is completed and will be permitted as a minor structure in accordance with MMS regulations. A ROW pipeline will be installed from Well No. 11 to the existing Dunhill Platform A, High Island 139.

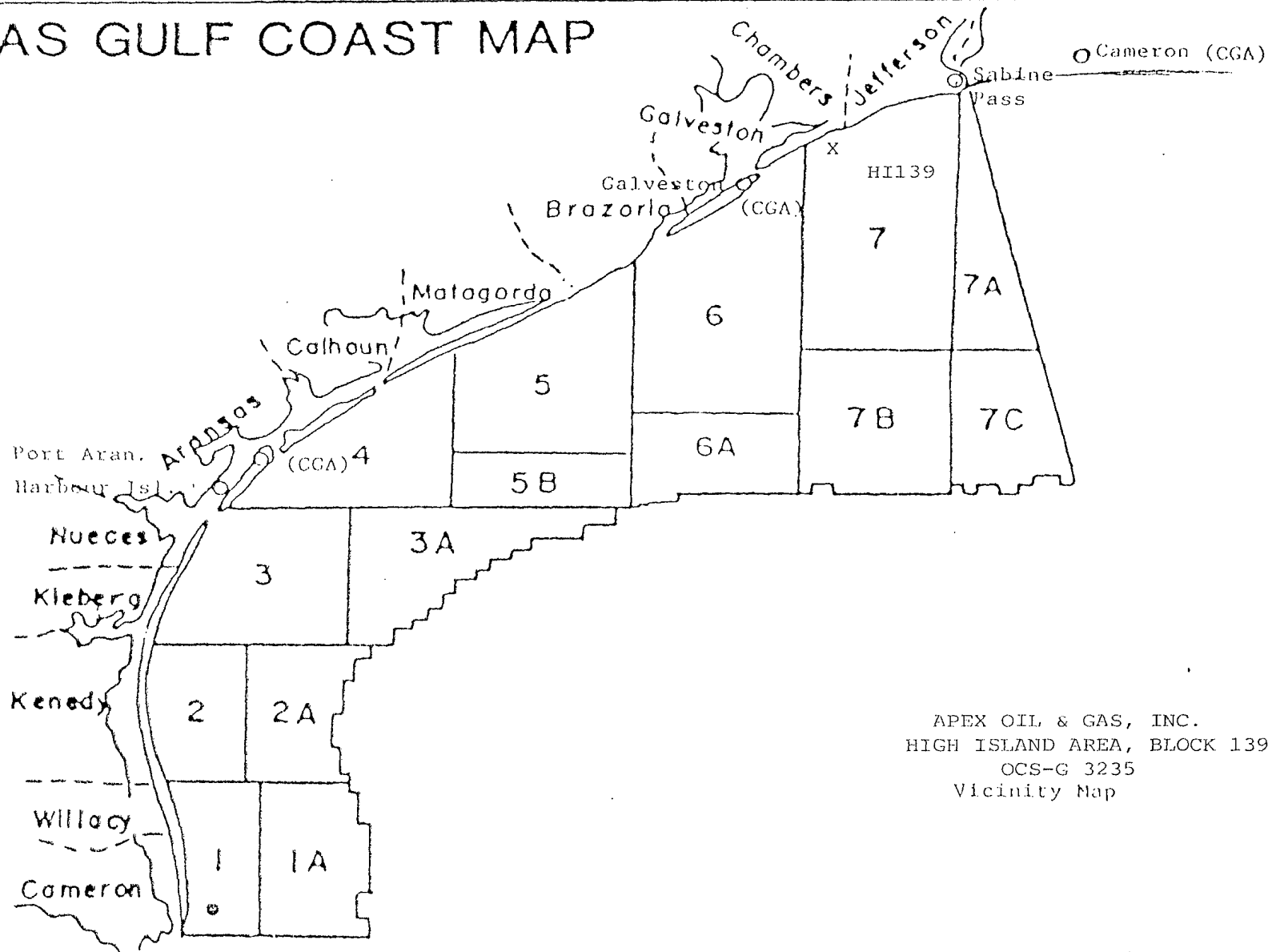
*No new nearshore or onshore pipelines or facilities will be constructed under this Plan.*

## **I. TRANSPORTATION INFORMATION**

Well No. 11, will be produced via a proposed 4-inch bulk gas right-of-way pipeline. Gas production will be processed and sold at Dunhill's existing High Island Block 139 Platform A. Liquid hydrocarbons will be transported to an existing onshore facility for sales.

Apex Oil & Gas does not anticipate the need to build, expand or modify any refineries, gas plants or compressor stations as the result of the activities proposed in this Supplemental DOCD. There will be no need for barging of condensate or crude production.

# TEXAS GULF COAST MAP



**Appendix C**  
**Geological, Geophysical & H<sub>2</sub>S INFORMATION**

In accordance with 43 CFR 2.13 (c)(9), those items considered proprietary have been omitted from the Public Information copy and have been referenced accordingly.

**A. STRUCTURE CONTOUR MAPS – Proprietary Data (Omitted from PI Copy)**

Enclosed as **Attachment C-1 and C-2** are current structure maps drawn to the top of the prospective hydrocarbon zones. The surface and bottom hole location(s) along with the location of the geologic cross-section of the proposed well(s) is included.

**B. INTERPRETED 2-D or 3-D SEISMIC LINES - Proprietary Data (Omitted from PI Copy)**

No new drilling operations are being proposed in this plan. Therefore, Apex is not required to submit additional shallow hazard or seismic data.

**C. GEOLOGICAL STRUCTURE CROSS-SECTIONS – Proprietary Data (Omitted from PI Copy)**

An interpreted geological cross-section showing the location and depth of the proposed well(s) with at least one key horizon and the objective sand labeled is enclosed as **Attachment C-3**.

**D. SHALLOW HAZARDS REPORT – Proprietary Data (Omitted from PI Copy)**

C&C Technologies performed a site specific Geophysical Survey of Block 139, High Island, Offshore Texas in March 2004. Three copies of the survey report were submitted with the Supplemental Exploration Plan. The purpose of the survey was to evaluate geologic conditions and inspect for potential hazards or constraints to lease exploration.

**E. SHALLOW HAZARDS ASSESSMENT – Proprietary Data (Omitted from PI Copy)**

The operations proposed under this plan will occur from an existing approved surface location. Therefore, a Shallow Hazards Assessment is not required at this time.

**F. HIGH RESOLUTION SEISMIC LINES – Proprietary Data (Omitted from PI Copy)**

The operations proposed under this plan will occur from an existing surface location(s) approved under the Supplemental Exploration Plan; therefore a high-resolution seismic line is not being submitted at this time.

G. **HYDROGEN SULFIDE INFORMATION** – Proprietary Data (Omitted from PI Copy)

In accordance with Title 30 CFR 250.417(c), Apex requests High Island Block 139, Lease OCS-G 3235 be classified by the Minerals Management Service as an area where the absence of hydrogen sulfide has been confirmed based upon the following:

In accordance with 43 CFR 2.13 (c)(9), those items considered proprietary have been omitted from the Public Information copy and have been referenced accordingly.

## **Appendix D**

### **BIOLOGICAL INFORMATION**

#### **CHEMOSYNTHETIC INFORMATION**

The seafloor disturbing activities proposed in the Plan are in water depths less than 400 meters (1312 feet); therefore, this section of the plan is not applicable.

#### **TOPOGRAPHIC FEATURES INFORMATION**

MMS and the National Oceanic and Atmospheric Administration - Fisheries (NOAA-Fisheries) have entered into a programmatic consultation agreement for Essential Fish Habitat (EFH) that requires that no bottom disturbing activities, including the use of anchors, chains, cables and wire ropes from a semi-submersible drilling rig or from a pipeline construction vessel may occur within 152 meters (500 feet) of the designated "No Activity Zone of a topographic feature; and if more than two wells are to be drilled from the same surface location and that surface location is within the 3-mile Zone of an identified topographic feature, all drill cuttings and drilling fluids from the drilling operations are to be shunted to the sea bottom through a structurally sound downpipe that terminates an appropriate distance, but no more than 10 meters (33 feet) from the bottom.

If proposed bottom disturbing activities do not meet the criteria in the EFH programmatic consultation agreement outlined above, MMS must consult with NOAA Fisheries.

**A topographic feature does not affect the activities proposed in this plan.**

#### **LIVE BOTTOM (PINNACLE TREND) INFORMATION**

MMS and the National Oceanic and Atmospheric Administration - Fisheries (NOAA-Fisheries) have entered into a programmatic consultation agreement for Essential Fish Habitat (EFH) that relates to bottom-disturbing activities occurring within 30 meters (100 feet) of any pinnacle trend feature with vertical relief greater than or equal to 8 feet. If any bottom-disturbing activities are proposed (including anchors, chains, cables or wire ropes from a semi-submersible drilling rig or from a pipeline construction vessel), within 100 feet of any pinnacle trend feature as defined above, the MMS is required to consult with the NOAA-Fisheries. Consultation is also required whenever the route of a proposed pipeline that will transport liquid hydrocarbons having an API gravity of 45° or less is located closer than 91 meters (300 feet) from any pinnacle trend feature having 8 feet or more of vertical relief.

**The activities proposed in this plan are not affected by a live bottom (pinnacle trend) stipulation.**

#### **LIVE BOTTOMS (LOW-RELIEF FEATURES)**

Live bottoms (low-relief features) are made a part of lease stipulations since 1982 and include seagrass communities, areas that contain biological assemblages consisting of sessile invertebrates living upon and attached to naturally occurring hard or rocky formations with rough, broken, or smooth topography; and areas where a hard substrate and vertical relief may

favor accumulation of turtles, fishes, or other fauna. These features occur in the Eastern Planning Area of the Gulf of Mexico. In accordance with NTL 2004-G05 and 30 CFR 250.103, no bottom disturbing activities, including the use of anchors, chains, cables or wire ropes from a semisubmersible drilling rig or from a pipeline construction vessel may cause impacts to live bottoms (low-relief features).

**The activities proposed in this plan are not affected by a live bottom (low relief feature) stipulation.**

### **POTENTIALLY SENSITIVE BIOLOGICAL FEATURES**

No bottom disturbing activities within 30 meters (100 feet) including rig placement, semisubmersible rig or construction barge use of anchors, chains, cables or wire ropes may cause impacts to potentially sensitive biological features. These features not protected by a biological lease stipulation, are of moderate to high relief (about 8 feet or higher), provide surface area for the growth of sessile invertebrates, and attract large numbers of fish and are located outside any "No Activity Zone" of any topographic feature (banks) or live-bottom (pinnacle trend) block.

**The activities proposed in this plan will not impact a potentially sensitive biological feature.**

### **REMOTELY OPERATED VEHICLE (ROV) SURVEYS**

High Island Block 139 is not located in water depths  $\geq 400$  meters (1312 feet) and therefore does not require an ROV Monitoring Survey Plan.



**Appendix E**  
**WASTES AND DISCHARGES INFORMATION**

All offshore discharges associated with Apex's proposed operations will be conducted in accordance with the regulations implemented by Minerals Management Service (MMS), U.S. Coast Guard (USCG) and the U.S. Environmental Protection Agency (EPA).

High Island Block 139 is covered under EPA Region 6 NPDES General Permit GMG290000 Outfall which regulates overboard discharges, including restrictions and limitations of waste generated from oil and gas operations in the Western Gulf of Mexico.

**A. Discharges**

The type and general characteristic of the wastes, the amount to be discharged (volume or rate), the maximum discharge rate, a description of any treatment or storage, and the discharge location and method for each type of discharge is provided for in tabular format as **Attachment E-1**.

**B. Disposed Wastes**

The type and general characteristics of the wastes, the amount to be disposed of (volume, rate, or weight), the daily disposal rate, the name and location of the disposal facility, a description of any treatment or storage, and the methods for transporting and final disposal is provided for in tabular format as **Attachment E-2**.

Attachment E-1  
WASTE AND DISCHARGE INFORMATION

Projected Ocean Discharges: this table is not required for this Supplemental DOCD offshore Texas.

**Attachment E-2**  
**Projected Wastes to be Disposed of:**

Type of Waste / approximate composition	Amount (volume, weight or rate)	Rate per day	Name/Location of Disposal Facility	Treatment and /or Storage, Transport and Disposal Method
Spent oil-based drilling fluids and cuttings	NA	NA	NA	NA
Spent synthetic-based drilling fluids and cuttings	NA	NA	NA	NA
Oil contaminated produced sand	NA	NA	NA	NA
Waste Oil	NA	NA	Handled by Rig Contractor	Pack in drums and transport to an onshore incineration site
Produced water	NA	NA	NA	NA
Produced water	NA	NA	NA	NA
Norm-contaminated wastes	NA	NA	NA	NA
Trash and debris	20 ft <sup>3</sup> / day	20 ft <sup>3</sup> / day	Milpark Dock, Pelican Island, TX	Transport in storage bins on crew boat to shore base – Picked up at shore base and trucked to public facility
Chemical product wastes	NA	NA	NA	NA
Chemical product wastes	Unknown	Unknown	Newpark, Cameron, LA	Transport in barrels on crew boat to shore location
Workover fluids	Unknown	Unknown	Newpark, Cameron, LA	Transport in barrels on crew boat to shore location

**Appendix F**  
**OIL SPILL INFORMATION**

**Information to Comply with the Oil Pollution Act of 1990 (OPA) and the Coastal Zone Management Act (CZMA)**

A. Site-Specific OSRP

Lease OCS-G 3235 is not located in the Eastern Gulf of Mexico therefore a site-specific OSRP is not required.

B. Regional OSRP Information

Apex Oil & Gas, Inc. is the only entity covered in their Regional Oil Spill Response Plan (OSRP) has been reviewed and approved on January 20, 2004 for period ending August 31, 2005. The Regional OSRP will cover activities proposed in this Supplemental DOCD.

C. OSRO Information

Apex'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.

Apex has contracted Response Management Associates to act as Incident Commander and Spill Management Team to provide trained personnel capable of providing rapid, efficient and comprehensive supervisory management of the oil spill response. RMA will direct the activities of Apex Oil & Gas existing response plan and identify additional contractors as necessary for an adequate response. RMA will act as liaison with Apex's response contractors, equipment provider organization and other related consultants to achieve a coordinated, efficient response to the spill.

D. Worst Case Scenario Comparison

The worst-case discharge (WCD) proposed in this Supplemental DOCD does not supersede the worst-case discharge as approved in our Regional OSRP. See below:

Category	Regional OSRP	Supplemental DOCD
Type of Worst-case Scenario <sup>1</sup>	Production	Production
Facility Location (area/block)	WC 229	HI 139
Facility Designation <sup>2</sup>	Platform C	Well No. 11
Distance to Nearest Shoreline		
Worst-case Scenario Volume <sup>3</sup>		
Storage tanks (maximum capacity)	155 bbls	NA
Flowlines (maximum capacity)	108 bbls	NA
Lease term pipelines (calculated)		NA
Uncontrolled blowout (daily volume)	100 bbls	8.536 bbls
Total Worst-case Scenario Volume	<b>363 bbls</b>	<b>8.536 bbls</b>
Type of Oil (crude oil, condensate)	Gas	Gas
API Gravity(s) <sup>4</sup>	48°	Unknown°

- <sup>1</sup> Types of worst-case discharge scenarios include (1) oil production platform, including caissons, subsea completions or manifolds, (2) exploratory or development drilling operations including subsea completion or manifold, and mobile drilling rig, and (3) pipeline facility (see 30 CFR 254.47(a),(b), and (c)).
- <sup>2</sup> E.g., Well No. 2, Platform JA, Pipeline Segment No. 6373.
- <sup>3</sup> Take your regional OSRP worst-case scenario volume from the appropriate section of your regional OSRP. For EP's, determine the worst-case scenario volume using the criteria at 30 CFR 254.47(b). For DOCD's, determine the worst-case scenario volume using the criteria at 30 CFR 254.47(a), (b), and (c), as appropriate.
- <sup>4</sup> Provide API gravity of each oil given under "Type of Oil" above. Estimate for EP's.

Since Apex has the capability to respond to the WCD spill scenario included in its Regional OSRP and since the WCD scenario determined for our Supplemental DOCD does not replace the WCD scenario determined for our Regional OSRP, I hereby certify that Apex Oil & Gas has the capability to respond, to the maximum extent practicable, to a WCD resulting from the activities proposed in this Supplemental DOCD.

### **Facility tanks, production vessels**

Tanks with a capacity of 25 bbls or more of oil as defined at 30 CFR 254.6 are listed below.

Type of Storage Tank	Type of Facility	Tank Capacity (bbls)	Number of Tanks	Total Capacity (bbls)	Fluid Gravity (API)
NA	NA	NA	NA	NA	NA

### **Produced Liquid Hydrocarbons Transportation Vessels**

If liquid hydrocarbons are produced, they will not be transported by means other than a pipeline.

**Appendix G**  
**AIR EMISSIONS INFORMATION**

Included in this section as **Attachment G-1** is the Projected Air Quality Emissions Report prepared in accordance with Appendix G of NTL No. 2003-G17 addressing production operations. Plan emissions are the same as total complex emissions.

Screening Questions for DOCD's	Yes	No
Is any calculated Complex Total (CT) Emission amount (in tons) associated with your proposed development activities more than 90% of the amounts calculated using the following formulas: $CT = 3400D^{2/3}$ for CO, and $CT = 33.3D$ for other 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
Does or will the facility complex associated with your proposed development and production activities process production from eight or more wells?		X
Do you expect to encounter H <sub>2</sub> S at concentrations greater than 20 parts per million (ppm)?		X
Do you propose to flare or vent natural gas in excess of the criteria set forth under 250.1105(a)(2) and (3)		X
Do you propose to burn produced hydrocarbon liquids?		X
Are your proposed development and production activities located within 25 miles from shore?	X	
Are your proposed development and production activities located within 200 kilometers of the Breton Wilderness Area?		X

The following information was prepared by:

Beth Atwood  
PPI Technology Services, Inc.  
713/463-2330  
Email:batwood@ppitech.net

## DOCD AIR QUALITY SCREENING CHECKLIST

OMB Control No. 1010-0049  
OMB Approval Expires: August 31, 2006

COMPANY	Apex Oil & Gas, Inc.
AREA	High Island
BLOCK	139
LEASE	G03235
PLATFORM	
WELL	No. 11
COMPANY CONTACT	Beth Atwood
TELEPHONE NO.	713-463-2330
REMARKS	

LEASE TERM PIPELINE CONSTRUCTION INFORMATION:		
YEAR	NUMBER OF PIPELINES	TOTAL NUMBER OF CONSTRUCTION DAYS
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		

ATTACHMENT G-1

# AIR EMISSION CALCULATIONS

OMB Control No. 1010-0049  
OMB Approval Expires: August 31, 2006

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
Apex Oil & Gas,	High Island	139	G03235	0	No. 11
Year	Emitted Substance				
	PM	SOx	NOx	VOC	CO
2004	0.79	3.62	27.14	0.81	5.92
2005	0.56	2.59	19.38	0.58	4.23
2006	0.56	2.59	19.38	0.58	4.23
2007	0.56	2.59	19.38	0.58	4.23
2008	0.56	2.59	19.38	0.58	4.23
2009	0.56	2.59	19.38	0.58	4.23
2010	0.56	2.59	19.38	0.58	4.23
2011	0.56	2.59	19.38	0.58	4.23
2012	0.56	2.59	19.38	0.58	4.23
2013	0.56	2.59	19.38	0.58	4.23
Allowable	499.50	499.50	499.50	499.50	20679.49



AIR EMISSION CALCULATIONS - FIRST YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		CONTACT		PHONE		REMARKS					
Apex Oil & Gas, Inc.	High Island	139	000235	0	No. 11		Beth Atwood		713-463-2330		#4471					
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	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
	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
	AUXILIARY EQUIP<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
	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
	VESSELS>600hp diesel(tugs)	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
PIPELINE INSTALLATION	PIPELINE LAY 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
	SUPPORT VESSEL 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
	PIPELINE BURY 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
	SUPPORT VESSEL 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
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
PRODUCTION	RECIP.<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
	RECIP.>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
	SUPPORT VESSEL diesel	2500	120.75	2898.00	8	112	1.76	8.08	60.57	1.82	13.22	0.79	3.62	27.14	0.81	5.92
	TURBINE nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.2 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle rich nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	BURNER nat gas	0	0.00	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	
	FLARE-		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		0		0	0				0.00				0.00		
	FUGITIVES-			0.0		0				0.00				0.00		
GLYCOL STILL VENT-		0		0	0				0.00				0.00			
DRILLING	OIL BURN	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WELL TEST	GAS FLARE		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2004 YEAR TOTAL							1.76	8.08	60.57	1.82	13.22	0.79	3.62	27.14	0.81	5.92
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											499.50	499.50	499.50	499.50	20679.49
	15.0															

AIR EMISSIONS CALCULATIONS - SECOND YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		CONTACT			PHONE	REMARKS					
Apex Oil & Gas, Inc.	High Island	139	G03235	0	No. 11		Beth Atwood			713-453-2330	#REF!					
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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	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
	AUXILIARY EQUIP<600hp diesel	0	0	0.00	0.00	0.00	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	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VESSELS>600hp diesel(tugs)	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PIPELINE INSTALLATION	PIPELINE LAY 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
	SUPPORT VESSEL 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
	PIPELINE BURY 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
	SUPPORT VESSEL 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	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<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
	RECIP.>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
	SUPPORT VESSEL diesel	2500	120.75	2898.00	8	80	1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
	TURBINE nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP. 2 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP. 4 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP. 4 cycle rich nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	BURNER nat gas	0	0.00	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		0.00
	FLARE-		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		0		0	0				0.00				0.00		0.00
	FUGITIVES-			0.0		0				0.00				0.00		0.00
	GLYCOL STILL VENT-		0		0	0				0.00				0.00		0.00
DRILLING WELL TEST	OIL BURN	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GAS FLARE		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2005 YEAR TOTAL							1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											499.50	499.50	499.50	499.50	20679.49
	15.0															

AIR EMISSIONS CALCULATIONS - THIRD YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		CONTACT		PHONE	REMARKS						
Apex Oil & Gas, Inc.	High Island	139	000205	0	No. 11		Beth Atwood		713-463-2330	#REF!						
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	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
	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
	AUXILIARY EQUIP<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
	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
	VESSELS>600hp diesel(tugs)	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
PIPELINE INSTALLATION	PIPELINE LAY 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
	SUPPORT VESSEL 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
	PIPELINE BURY 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
	SUPPORT VESSEL 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
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
PRODUCTION	RECIP.<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
	RECIP.>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
	SUPPORT VESSEL diesel	2500	120.75	2898.00	8	80	1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
	TURBINE nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.2 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle rich nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	BURNER nat gas	0	0.00	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	
	FLARE-		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		0		0	0				0.00				0.00		
	FUGITIVES-			0.0		0				0.00				0.00		
	GLYCOL STILL VENT-		0			0	0			0.00				0.00		
DRILLING WELL TEST	OIL BURN	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GAS FLARE		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2006 YEAR TOTAL							1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											499.50	499.50	499.50	499.50	20679.49
	15.0															

AIR EMISSIONS CALCULATIONS - FOURTH YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		CONTACT		PHONE	REMARKS						
Apex Oil & Gas, Inc.	High Island	139	G03235	0	No. 11		Beth Atwood		713-463-2330	#REF!						
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	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
	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
	AUXILIARY EQUIP<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
	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
	VESSELS>600hp diesel(lugs)	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
PIPELINE INSTALLATION	PIPELINE LAY 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
	SUPPORT VESSEL 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
	PIPELINE BURY 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
	SUPPORT VESSEL 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
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
PRODUCTION	RECIP.<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
	RECIP.>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
	SUPPORT VESSEL diesel	2500	120.75	2898.00	8	80	1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
	TURBINE nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.2 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle rich nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	BURNER nat gas	0	0.00	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		0.00
	FLARE-		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		0		0	0				0.00				0.00		0.00
	FUGITIVES-			0.0		0				0.00				0.00		0.00
GLYCOL STILL VENT-		0		0	0				0.00				0.00		0.00	
DRILLING WELL TEST	OIL BURN	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GAS FLARE		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2007 YEAR TOTAL							1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											499.50	499.50	499.50	499.50	20679.49
	15.0															

AIR EMISSIONS CALCULATIONS - FIFTH YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		CONTACT			PHONE	REMARKS					
Apex Oil & Gas, Inc.	High Island	139	G03235	0	No. 11		Beth Atwood			713-463-2330	#REF!					
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	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
	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
	AUXILIARY EQUIP<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
	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
	VESSELS>600hp diesel(tugs)	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
PIPELINE INSTALLATION	PIPELINE LAY 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
	SUPPORT VESSEL 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
	PIPELINE BURY 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
	SUPPORT VESSEL 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
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
PRODUCTION	RECIP.<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
	RECIP.>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
	SUPPORT VESSEL diesel	2500	120.75	2898.00	8	80	1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
	TURBINE nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.2 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIP.4 cycle rich nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	BURNER nat gas	0	0.00	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			0.00	0.00	0.00
	FLARE-		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		0		0	0				0.00	0.00			0.00	0.00	0.00
	FUGITIVES-			0.0		0				0.00	0.00			0.00	0.00	0.00
	GLYCOL STILL VENT-		0		0	0				0.00	0.00			0.00	0.00	0.00
DRILLING WELL TEST	OIL BURN	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GAS FLARE		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2008 YEAR TOTAL							1.76	8.08	60.57	1.82	13.22	0.56	2.59	19.38	0.58	4.23
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											499.50	499.50	499.50	499.50	20679.49
	15.0															

# AIR EMISSION CUMPUTATION FACTORS

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	AP42 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

## GULF OF MEXICO AIR EMISSION CALCULATIONS INSTRUCTIONS

### General

This document (DOCD\_AQ.XLS) was prepared through the cooperative efforts of those professionals in the oil industry including the API/OOC Gulf of Mexico Air Quality Task Force, and the Minerals Management service (MMS), who deal with air emission issues. This document is intended to standardize the way we estimate our potential air emissions for Development Operations Coordination Documents (DOCD) approved by the Minerals Management Service (MMS). It is intended to be thorough but flexible to meet the needs of different operators. This first file gives the basis for the emission factors used in the emission spreadsheet as well as some general instructions. The following files, Title Sheet, Factors Sheet, Emissions Spreadsheet, and Summary Sheet will describe and calculate emissions from an activity.

### Title Sheet

The Title Sheet requires input of the company's name, area, block, OCS-G number, platform and/or well(s) in the necessary lines. This data will automatically be transferred to the spreadsheet and summary sheet.

### Factor Sheet

The emission factors were compiled from the latest AP-42 references or from industry studies if no AP-42 reference was available. Factors can be revised as more data becomes available. A change to this Factor Sheet will be automatically changed in Emission Spreadsheet. A sulfur content table was added in 1996. A change in this table will automatically revise the SO<sub>x</sub> factor which will revise emissions.

The basis for the factors is as follows:

1. NG Turbines      Fuel usage scf/hr =  $HP \times 9.524$  (10,000 btu/HP-hr / 1050 btu/scf)
2. NG Engines      Fuel usage scf/hr =  $HP \times 7.143$  (7,500 btu/HP-hr / 1050 btu/scf)
3. Diesel            Fuel usage gals/hr =  $HP \times 0.0483$  (7,000 btu/HP-hr / 145,000 btu/gal)

## Emission Factors

### *Natural Gas Prime Movers*

1. TNMOC refers to total non-methane organic carbon emissions and these can be assumed equivalent to VOC emissions.
2. The sulfur content assumed is 2000 grains /mmscf (3.33 ppm). If your concentration is different then revise the ppm in the sulfur table immediately below the factors table.

### *Diesel-Fired Prime Movers*

1. Diesel sulfur level 0.4% by wt. If your sulfur content is different change % wt. in the sulfur table.
2. For boats use > 600 HP factors based on AP-42 Vol. II, Table II-3-3.  
Those figures closely match the above values. Include the emissions from all vessels associated with your activities for their time of operation within a 25 mile radius of your facility.
3. For diesel engines <600 HP VOC emissions equal total HC emissions; for diesel engines >600 HP VOC emissions equal non-methane HC emissions.

### *Heaters/Boilers/Firetubes/NG-Fired*

1. The assumed NG Sulfur content is 2000 gr. per mcf(3.33 ppm). You may revise the sulfur content by changing the ppm in the sulfur table, if your content is different.
2. The VOCs emissions are based on total non-methane HCs.

### *Gas Flares*

1. It is assumed that the flare is non-smoking.
2. A heating value of 1050 btu/cu. ft. for NG is assumed.
3. The sulfur content assumed is 2000 grains /mmscf (3.33 ppm). If your concentration is different then revise the ppm in the sulfur table, or you may use the following formula:

$$\text{H}_2\text{S flared (lbs/hr)} = \text{Gas flared (cu ft/hr)} \times \text{ppm H}_2\text{S} \times 34 / (379 \times 1000000)$$

$$\text{SO}_x \text{ emis (lbs/hr)} = \text{H}_2\text{S flared (lbs/hr)} \times 64 / 34$$

### *Liquid Flares*

1. Assumes 1% by wt Sulfur maximum in the crude oil. Revise the percent sulfur in the sulfur table if your value is different.
2. VOCs equal non-methane HCs
3. Particulate emissions assumes Grade 5 oil.



### *Tanks*

1. Tank emissions assumes uncontrolled fixed roof tank.
2. The EPA TANKS model is an acceptable alternative. If you use TANKS you must provide sufficient information for MMS to verify your results.

### *Fugitives*

1. Fugitives are based on the 1995 Star Environmental Report. It requires that you count or estimate your components. The factor is based on average leak rate for light oil / gas facility.

### *Glycol Dehydrator Vent*

1. The rate of the gas being dehydrated (throughput) in SCF/HR must be entered in the spreadsheet. The emission factor is from the compilation of the Louisiana Survey and an average emissions per gas rate.

### *Gas Venting*

1. The emission factor is based on venting unburned natural gas of average weight.

### **Emissions Spreadsheets (EMISSIONS1 through EMISSIONS5)**

The emissions from an operation should be presented for a calendar year (1999, 2000, etc.). The operation may include production only or production in conjunction with other activities such as drilling or construction operations. For additional years the Emissions Spreadsheet is renamed Emissions 2, 3, etc. The different operating parameters for each year should be entered to calculate revised emissions for that year. The spreadsheet will calculate maximum fuel usage (UNIT/HR) using the known horsepower. It will assume maximum fuel usage is equal to actual fuel (UNIT/DAY) usage unless the actual fuel usage is known. If so, insert actual fuel usage in appropriate column. The emissions will be calculated as follows:

Emission rate (lb/hr) = (HP or fuel rate) X Emission Factor (Potential to emit)

Emissions (tpy) = Emission rate (lb/hr) X load factor (Act Fuel/Max Fuel) X hrs X days X ton/2000 lbs  
(Actual emissions)

To customize the spreadsheet for your application it is possible to delete lines for non-applicable

Also, the production equipment can be customized further by adding the use of the equipment behind each type of engine, i.e.,

Turbine

Turbine - Gas Compressor

Burner

Burner - Line Heater

## Summary Sheet

The Summary Sheet is designed to show a proposed estimate of emissions from an activity over a future period of time. In this example ten years was chosen. The first line (Row 7) of the summary sheet is linked to the yearly totals in the Emissions1 Spreadsheet. The second line (Row 8) is referenced to Emissions2 Spreadsheet. The third line (Row 9) is referenced to Emissions3, Row 10 to Emissions 4, Row 11 to Emissions 5. If more years of calculations are necessary to reach a constant then a spreadsheet can be copied and linked to the summary sheet for future years. Once emissions are constant the values are carried to the end of the ten year period.

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 DOCD 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 (OMB) control number. Responses are mandatory. The reporting burden for this form is included in the burden for preparing DOCDs. We estimate that burden to average 580 hours per response, including the time for reviewing instructions, gathering and maintaining the data, and completing and reviewing the form. Direct comments on the burden estimate or any other aspect of this form to the Information Collection Clearance Office, Mail Stop 4230, Minerals Management Service, 1849 C Street, N. W., Washington, DC 20240.

**Appendix H**  
**ENVIRONMENTAL IMPACT ANALYSIS (EIA)**

**A. ENVIRONMENTAL IMPACT ANALYSIS MATRIX**

Apex Oil & Gas, Inc. has placed an "X" in each IPF category that we believe (by using good engineering judgment) would be impacted by the activity proposed in this plan.

Environmental Resources	Impact Producing Factors (IPFs) Categories and Examples					
	Emissions (air, noise, light, etc.)	Effluents (muds, cuttings, other discharges to the 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 <sub>2</sub> S releases)	Other IPFs you identify
<b>Site-specific at Offshore Location</b>						
Designated topographic features		(1)	(1)		(1)	
Pinnacle Trend area live bottoms		(2)	(2)		(2)	
Eastern Gulf live bottoms		(3)	(3)		(3)	
Chemosynthetic communities		(4)	(4)		(4)	
Water quality		X	X		X	
Fisheries		X	X		X	
Marine mammals	(8)X			X	(8)X	
Sea turtles	(8) X			X	(8) X	
Air quality	(9)X					
Shipwreck sites (known or potential)			(7)			
Prehistoric archaeological sites			(7)			
<b>Vicinity of Offshore Location</b>						
Essential fish habitat		X			(6) X	
Marine and pelagic birds	X			X	X	
Public health and safety					(5)	
<b>Coastal and Onshore</b>						
Beaches				X	(6) X	
Wetlands					(6) X	
Shore birds and coastal nesting birds					(6) X	
Coastal wildlife refuges					X	
Wilderness areas					X	
<b>Other Resources You Identify</b>						
None						

**Footnotes for 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 Garden 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 a 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<sub>2</sub>S 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 you judge would impact these environmental resources. If the proposed action is located a sufficient distance from a resource that no impact would occur, the EIA can note that in a sentence or two.
7. All activities that involve seafloor disturbances, including anchor emplacements, 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 your planned activity will occur. If the proposed activities are located a sufficient distance from a shipwreck or prehistoric site that no impact would occur, the EIA can note that in a sentence or two.
8. All activities that you determine might 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

#### 1. Designated Topographic Features

The topographic features of the Central Gulf provide habitat for coral reef community organisms. Since 1973 stipulations have been made a part of leases on or near these biotic communities so that impacts from nearby oil and gas activities were mitigated to the greatest extent possible. This stipulation does not prevent the recovery of oil and gas resources, but serves to protect valuable and sensitive biological resources.

There are no IPF's (including effluents, physical disturbances to the seafloor, and accidents) from the proposed activities in High Island Block 139 that could cause impacts to topographic features. The site-specific offshore location of the proposed activities is approximately 76 miles from the closest designated topographic feature (Claypile Bank).

It is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities. Since the crests of designated topographic features in the northern Gulf are found below 10 meters, concentrated oil from a surface spill is not expected to reach their sessile biota. Even if a subsurface spill were to occur very near a designated topographic feature, subsurface oil should rise to the surface, and any oil remaining at depth would probably be swept clear of the bank by currents moving around the bank.

The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

#### 2. Pinnacle Trend Area Live Bottoms

A small portion of the northeastern Central Planning Area includes portions of 70 lease blocks that are characterized by a pinnacle trend. The pinnacle trend extends into the northwest portion of the Eastern Planning Area. The pinnacles are a series of topographic irregularities with variable biotal coverage, which provide structural habitat for a variety of pelagic fish. The Live Bottom (Pinnacle Trend) Stipulation is intended to protect the pinnacle trend and associated hard-bottom communities from damage and, at the same time, provide for recovery of potential oil and gas resources.

There are no IPF's (including effluents, physical disturbances to the seafloor, and accidents) from the proposed activities in High Island Block 139 that could cause impacts to pinnacle trend area live bottoms. The site-specific offshore location of the proposed activities is approximately 322 miles from the closest pinnacle trend live bottom stipulated block.

It is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities. Any surface oil spill resulting from the proposed action would likely have no impact on the biota of the pinnacle trend because the crests of these features are much deeper than 20 meters. Even if a subsurface spill were to occur very near pinnacle trend live bottom areas, subsurface oil should rise in the water column, surfacing almost directly over the source location and thus not impact pinnacles.

The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

### **3. Eastern Gulf Live Bottoms**

A small portion of the northeastern Central Planning Area includes portions of 70 lease blocks that are characterized by a pinnacle trend. The pinnacle trend extends into the northwest portion of the Eastern Planning Area. The pinnacles are a series of topographic irregularities with variable biotal coverage, which provide structural habitat for a variety of pelagic fish. The Live Bottom (Pinnacle Trend) Stipulation is intended to protect the pinnacle trend and associated hard-bottom communities from damage and, at the same time, provide for recovery of potential oil and gas resources.

There are no IPF's (including effluents, physical disturbances to the seafloor, and accidents) from the proposed activities in High Island Block 139 that could cause impacts to Eastern Gulf live bottoms. The site-specific offshore location of the proposed activities is approximately 364 miles from the closest Eastern Gulf live bottom stipulated block.

It is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities. Any surface oil spill resulting from the proposed action would not be expected to cause adverse impacts to Eastern Gulf live bottoms because of the depth of the features and dilution of spills (by currents and / or quickly rising oil).

The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

### **4. Chemosynthetic Communities**

There are no IPF's (including effluents, physical disturbances to the seafloor, and accidents) from the proposed activities that could cause impacts to Chemosynthetic Communities.

Chemosynthetic biologic communities that lie in water depths in excess of 400 meters (1312 feet) are of concern for environmental protection measures. Water depths in Block 139 vary from 49 to 51 feet. The site-specific offshore location of the proposed activity is in a water depth less than 400 meters (1312 feet).

## **5. Water Quality**

Effluents, physical disturbances to the seafloor and accidents from the proposed activities in High Island Block 139 could potentially cause impacts to water quality. Routine impact-producing factors that could result in water quality degradation from offshore OCS oil and gas operations include rig / anchor emplacement, platform and pipeline installation and removal, and the discharge of operational wastes.

With regards to marine trash and debris, effective June 19, 2003, the Minerals Management Service issued NTL 2003-G11 pursuant to 30 CFR 250.103 to provide guidance and assist the operators in preventing intentional and / or accidental introduction of trash and debris into the marine environment. With this assistance and with laws such as MARPOL-Annex V, the Marine Plastic Pollution Research and Control Act, and regulations imposed by various agencies including the U.S. Coast Guard and the U.S. Environmental Protection Agency, our employees will ensure that all offshore personnel, including contractors and other support services-related personnel have complete understanding of the requirement that Operators be proactive in avoiding accidental loss of solid waste items on the OCS.

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. Since all discharges will be made in accordance with a general National Pollutant Discharge Elimination System (NPDES) permit issued by U.S. Environmental Protection Agency (USEPA), operational discharges are not expected to cause significant adverse impacts to water quality.

Offshore accidents, such as blowouts and spills could also occur and have the potential to alter offshore water quality. Sediment disturbance is expected to result in minor, localized, temporary increases in water-column turbidity in offshore waters. Given the low frequency of blowouts, minimum impacts on water quality due to resuspension of sediments are expected.

Oil spills related to the proposed action are assumed to be mostly very small events (and for spills greater than 50 bbl) to occur very infrequently. It is unlikely that an accidental oil spill would occur from the proposed activities. If a spill were to occur, the dissolved components and small oil droplets would temporarily affect the water quality of marine waters. Dispersion by currents and microbial degradation would remove the oil from the water column or dilute the constituents to background levels.

The activities proposed in this plan will be covered by our Regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

## **6. Fisheries**

Effects on commercial fisheries from activities associated with this plan could come from emplacement of production platform(s), underwater OCS obstructions, oil spills,

subsurface blowouts, pipeline installation and offshore discharges of drilling mud and produced waters (See Section 5, Water Quality above).

An accidental oil spill that may occur as a result of the proposed action has the potential to cause some detrimental effects to fisheries. However, it is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities. If a spill were to occur in open waters of the OCS proximate to mobile adult finfish or shellfish, the effects would likely be sublethal and the extent of damage would be reduced to the capability of adult fish and shellfish to avoid a spill, to metabolize hydrocarbons, and to excrete both metabolites and parent compounds. The effect of oil spills on fisheries is expected to cause less than 1 percent decrease in commercial populations or in commercial fishing. At the expected level of effect, the resultant influence on Central Gulf fisheries is negligible and will be indistinguishable from natural population variations. The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

Drilling mud discharges contain chemicals toxic to marine fishes; however, this is only at concentrations 4 or 5 orders of magnitude higher than those found more than a few meters from the discharge point. Offshore discharges of drilling muds will dilute to background levels within 1000 meters of the discharge point and have a negligible effect on Central Gulf fisheries.

## **7. Marine Mammals**

Marine mammals may be adversely impacted by several IPF's (including vessel traffic, noise, accidental oil spills, and loss of trash and debris, all of which could occur due to the proposed action. Chronic and sporadic sublethal effects could occur that may stress and / or weaken individuals of a local group or population and make them more susceptible to infection from natural or anthropogenic sources. Few lethal effects are expected from oil spills, chance collisions with service vessels and ingestion of plastic material. Oil spills of any size are estimated to be aperiodic events that may contact cetaceans. Disturbance (e.g., noise) may stress animals, weaken their immune systems, and make them more vulnerable to parasites and diseases that normally would not be fatal.

The net result of any disturbance would depend on the size and percentage of the population affected, ecological importance of the disturbed area, environmental and biological parameters that influence an animal's sensitivity to disturbance and stress, and the accommodation time in response to prolonged disturbance (Geraci and St. Aubin, 1980). Collisions between cetaceans and ships could cause serious injury or death (Laist et al., 2001). Sperm whales are one of 11 whale species that are hit commonly by ships (Laist et al., 2001). Collisions between OCS vessels and cetaceans within the project area are expected to be unusual events.

The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

The Minerals Management Service issued NTL 2003-G10 pursuant to 30 CFR 250.103, 250.23(o) and 250.204(s) to explain how Operators must implement measures to minimize the risk of vessel strikes to protected species and report observations of injured or dead protected species effective June 19, 2003. We will ensure that our contract

vessel operators are aware of their requirement to report sightings of any injured or dead protected species immediately to the MMS Protected Species Biologist by telephone.

With regards to marine trash and debris, effective June 19, 2003, the Minerals Management Service issued NTL 2003-G11 pursuant to 30 CFR 250.103 to provide guidance and assist the operators in preventing intentional and / or accidental introduction of trash and debris into the marine environment. With this assistance and with laws such as MARPOL-Annex V, the Marine Plastic Pollution Research and Control Act, and regulations imposed by various agencies including the U.S. Coast Guard and the U.S. Environmental Protection Agency, our employees will ensure that all offshore personnel, including contractors and other support services-related personnel have complete understanding of the requirement that Operators be proactive in avoiding accidental loss of solid waste items on the OCS.

## **8. Sea Turtles**

IPF's that could impact sea turtles include vessel traffic, noise, trash and debris, and accidental oil spills. Small numbers of turtles could be killed or injured by chance collision with service vessels or by eating indigestible trash, particularly plastic items, accidentally lost from drill rigs, production facilities, and service vessels. Drilling rigs and project vessels produce noise that could disrupt normal behavior patterns and create some stress potentially making sea turtles more susceptible to disease. Oil spills and oil-spill-response activities are potential threats that could have lethal effects on turtles. Contact with oil, consumption of oil particles, and oil-contaminated prey could seriously affect individual sea turtles. Oil-spill-response planning and the habitat protection requirements of the Oil Pollution Act of 1990 should mitigate these threats.

Most OCS-related impacts on sea turtles are expected to be sublethal. Chronic sublethal effects (e.g., stress) resulting in persistent physiological or behavioral changes and / or avoidance of effected areas could cause declines in survival or productivity, resulting in gradual population declines.

The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F). The Minerals Management Service issued NTL 2003-G10 pursuant to 30 CFR 250.103, 250.23(o) and 250.204(s) to explain how Operators must implement measures to minimize the risk of vessel strikes to protected species and report observations of injured or dead protected species effective June 19, 2003. We will ensure that our contract vessel operators are aware of their requirement to report sightings of any injured or dead protected species immediately to the MMS Protected Species Biologist by telephone.

With regards to marine trash and debris, effective June 19, 2003, the Minerals Management Service issued NTL 2003-G11 pursuant to 30 CFR 250.103 to provide guidance and assist the operators in preventing intentional and / or accidental introduction of trash and debris into the marine environment. With this assistance and with laws such as MARPOL-Annex V, the Marine Plastic Pollution Research and Control Act, and regulations imposed by various agencies including the U.S. Coast Guard and the U.S. Environmental Protection Agency, our employees will ensure that all offshore personnel, including contractors and other support services-related personnel have complete understanding of the requirement that Operators be proactive in avoiding accidental loss of solid waste items on the OCS.



## **9. Air Quality**

There would be a limited degree of air quality degradation in the immediate vicinity of the proposed activities. The Projected Air Quality Emissions Report (Attachment G-1) indicates that the MMS exemption level will not be exceeded during the operations proposed in the Plan. There are no existing facilities or activities co-located with the current proposed activities; therefore, the Complex Total Emissions are the same as the Plan Emissions.

## **10. Shipwreck Sites (Known or Potential)**

IPF's that could cause impacts to known or potential shipwreck sites from the proposed activities in High Island Block 139 include physical disturbances to the seafloor such as platform and pipeline installation.

The proposed activity is located inside the MMS designated area as having high-probability for the occurrence of shipwrecks. In review of the Shallow Hazards Report (submitted in accordance with NTL 2002-G08, Appendix C, and NTL 98-20) indicates there are no know or potential shipwreck sites within the survey area.

However, in the event items of significant cultural resource potential are discovered during the proposed operations, Apex will immediately halt all operations and notify the appropriate department at the Minerals Management Service for further evaluation and assistance.

## **11. Prehistoric Archaeological Sites**

IPF's that could cause impacts to known or potential prehistoric archaeological sites from the proposed activities include physical disturbances to the seafloor such as rig, platform and pipeline installation.

The area of proposed activity falls within the zone designated as an area with a high probability of pre-historic archaeological resources. A site specific Hazard Survey and Archaeological report was prepared by C&C Technologies in March 2004. Based on review of the data, Apex does not anticipate impact to any prehistoric archaeological sites as a result of the proposed activities.

However, in the event items of significant cultural resource potential are discovered during the proposed operations, Apex will immediately halt all operations and notify the appropriate department at the Minerals Management Service for further evaluation and assistance.

Vicinity of Offshore Location:

### **1. Essential Fish Habitat**

IPF's that could impact essential fish habitats as a result of the proposed operations in High Island Block 139 include effluents and accidents. The major effluent discharges from offshore oil and gas exploration and production activities include produced water, drilling fluids and cuttings, ballast water, and uncontaminated seawater (see Section 5, Water Quality, above). 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. Since all discharges will be conducted in accordance with a general National Pollutant Discharge Elimination System (NPDES) permit issued by U.S. Environmental Protection Agency (USEPA), operational discharges are not expected to cause significant adverse impacts to water quality

An accidental oil spill that may occur as a result of the proposed action has the potential to cause some detrimental effects on essential fish habitat. However, it is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities.

Offshore oil spillage from OCS operations is small compared with the volume of oil produced. Since 1980, OCS operators have produced about 5.5 BBO of oil, while the amount of oil spilled offshore totaled about 61,500 bbl (0.001%) or 1 bbl spilled for every 89,500 produced. In 1994, MMS revised its oil-spill occurrence rates for large spills (Anderson and LaBell3, 1994). An examination of the two major sources of OCS-related offshore spills (platforms and pipelines) shows that the greater risk of a large spill is from a pipeline. There have been no spills  $\geq 1000$  bbls from OCS platforms since 1980.

If a spill were to occur in open waters of the OCS proximate to mobile adult finfish or shellfish, the effects would likely be sublethal and the extent of damage would be limited and lessened due to the capability of adult fish and shellfish to avoid a spill, to metabolize hydrocarbons, and to excrete both metabolites and parent compounds. The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

## **2. Marine and Pelagic Birds**

IPF's that could impact marine and pelagic birds as a result of the proposed operations include air emissions, accidents and discarded trash and debris. Emissions of pollutant into the atmosphere from the activities associated with the proposed operations in this plan are not projected to have significant impacts on air quality that could harm marine and pelagic birds because of the prevailing atmospheric conditions, emission heights, emission rates and pollutant concentrations.

An accidental oil spill that may occur as a result of the proposed action has the potential to cause some detrimental effects on marine and pelagic birds. Some physical oiling could occur during dives, as well as secondary toxic effects through the uptake of prey. However, it is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities. The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

With regards to marine trash and debris, coastal and marine birds can commonly become entangled and snared in discarded trash and debris. Effective June 19, 2003, the Minerals Management Service issued NTL 2003-G10 pursuant to 30 CFR 250.103 to provide guidance and assist the operators in preventing intentional and / or accidental introduction of trash and debris into the marine environment. With this assistance and with laws such as MARPOL-Annex V, the Marine Plastic Pollution Research and Control Act, and regulations imposed by various agencies including the U.S. Coast Guard and

the U.S. Environmental Protection Agency, our employees will ensure that all offshore personnel, including contractors and other support services-related personnel have complete understanding of the requirement that Operators be proactive in avoiding accidental loss of solid waste items on the OCS.

### **3. Public Health and Safety Due to Accidents**

The primary IPF that could cause impacts to public health and safety from the proposed activity is an accidental H<sub>2</sub>S release.

In accordance with 30 CFR 250.417(c) and NTL 2003-G17 (Appendix C) Apex has submitted sufficient information to justify our request that the area of proposed activities be classified by MMS as H<sub>2</sub>S absent.

## **Coastal and Onshore:**

### **1. Beaches**

Primary IPF's associated with offshore oil and gas exploration and development, and most widely recognized as major threats to the enjoyment and use of recreational beaches, are oil spills (accidents) and marine trash and debris. The operations proposed in this plan are not projected to have significant impacts on coastal beaches.

An accidental oil spill that may occur as a result of the proposed action has the potential to cause some detrimental effects on coastal beaches. However, it is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities. The level of response to a spill will be based on volume, weather, and the characteristics of the product spilled. Apex's objectives for spill response are to ensure the safety of citizens and response personnel; control the source of the spill, have a coordinated response effort; maximize the protection of environmental sensitive areas; contain, recover and remove as much of the spill product as possible; recover and rehabilitate injured wildlife; minimize economic impacts; and keep the general public informed of the response activities. The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

With regards to marine trash and debris, effective June 19, 2003, the Minerals Management Service issued NTL 2003-G11 pursuant to 30 CFR 250.103 to provide guidance and assist the operators in preventing intentional and / or accidental introduction of trash and debris into the marine environment. With this assistance and with laws such as MARPOL-Annex V, the Marine Plastic Pollution Research and Control Act, and regulations imposed by various agencies including the U.S. Coast Guard and the U.S. Environmental Protection Agency, our employees will ensure that all offshore personnel, including contractors and other support services-related personnel have complete understanding of the requirement that Operators be proactive in avoiding accidental loss of solid waste items on the OCS.

### **2. Wetlands**

The primary IPF associated with offshore oil and gas exploration and development, and most widely recognized as major threats to the wetlands are oil spills (accidents). The

operations proposed in this plan are not projected to have significant impacts on wetlands.

The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

If the spill went unabated, shoreline impact would depend upon existing environmental conditions. Onshore response may include the deployment of shoreline boom on beach areas, or protection and sorbent boom on vegetated areas. Strategies would be based upon surveillance and real time trajectories that depict areas of potential impact given actual sea and weather conditions. The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

### **3. Shore Birds and Coastal Nesting Birds**

The primary IPF associated with offshore oil and gas exploration and development, and most widely recognized as major threats to the shore birds and coastal nesting birds are oil spills (accidents).

High Island Block 139 is approximately 15 miles from the coast of Texas. The operations proposed in this plan are not projected to have significant impacts on shore birds and coastal nesting birds.

An accidental oil spill that may occur as a result of the proposed action has the potential to cause some detrimental effects on shore birds and coastal nesting birds. It is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities in High Island Block 139. The level of response to a spill will be based on volume, weather, and the characteristics of the product spilled. Apex's objectives for spill response are to ensure the safety of citizens and response personnel; control the source of the spill, have a coordinated response effort; maximize the protection of environmental sensitive areas; contain, recover and remove as much of the spill product as possible; recover and rehabilitate injured wildlife; minimize economic impacts; and keep the general public informed of the response activities. The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

### **4. Coastal Wildlife Refuges**

The primary IPF associated with offshore oil and gas exploration and development, and most widely recognized as major threats to the coastal wildlife refuges are oil spills (accidents). The operations proposed in High Island Block 139 are not projected to have significant impacts on coastal wildlife refuges.

High Island Block 139 is approximately 15 miles from the Texas Point National Wildlife Refuge. Wintering waterfowl take advantage of the rich food resources found in the delta. Large numbers of wading birds nest on the refuge, and thousands of shorebirds can be found on tidal mudflats and deltaic splays.

Detailed spill response discussions are included in Appendix H of Apex Oil & Gas Regional Oil Spill Response Plan. The activities proposed in this plan will be covered by

our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

## **5. Wilderness Areas**

The primary IPF associated with offshore oil and gas exploration and development, and most widely recognized as major threats to wilderness areas are oil spills (accidents). The operations proposed in this plan are not projected to have significant impacts on wilderness areas.

The activities proposed in this plan will be covered by our regional OSRP (refer to information submitted in accordance with NTL 2003-G17 Appendix F).

Other Environmental Resources Identified:      None

## **C. IMPACTS ON YOUR PROPOSED ACTIVITIES**

The site-specific environmental conditions have been taken into account for the proposed activities under this plan. No impacts are expected on the proposed activities from site-specific environmental conditions.

The Shallow Hazards Report has been submitted to the Minerals Management Service under separate cover. A Shallow Hazards Assessment of seafloor and subsurface geological manmade features and conditions that may adversely affect operations is included in Appendix C.

## **D. ALTERNATIVES**

No alternatives to the proposed activities described in this Supplemental EP were considered to reduce environmental impacts.

## **E. MITIGATION MEASURES**

No mitigation measures other than those required by regulation will be considered to avoid, lessen or eliminate potential impacts on environmental resources.

## **F. CONSULTATION**

No agencies or persons were consulted regarding potential impacts associated with the proposed activities. Therefore, a list of such entities has not been provided.

## **G. REFERENCES**

Although not always cited, the following were utilized in preparing the EIA:

Site specific High Resolution Geophysical Survey Report of Block 139, High Island Area, OCS-G 3235, prepared for Apex Oil & Gas by C&C Technologies during March 2004.

Gulf of Mexico OCS Oil and Gas Lease Sales 169, 172, 175, 178 and 182; Central Planning Area, Final EIS (OCS EIS/EA MMS 97-0033)

Gulf of Mexico OCS Oil and Gas Lease Sales 2003-2007; Central and Western Planning Area Sales; Final EIS (OCS EIS/EA MMS 2002-052)

NTL 2004-G05, effective April 1, 2004, Biologically Sensitive Areas of the Gulf of Mexico

NTL 2003-G11, effective June 19, 2003, for Marine Trash and Debris Awareness and Elimination

NTL 2003-G10, effective June 19, 2003 for Vessel Strike Avoidance and Injured / Dead Protected Species Reporting

NTL 2003-G17, effective August 27, 2003 for Information Requirements for Exploration Plans and Development Operations Coordination Documents

**Appendix I**  
**Coastal Zone Management Consistency Information**

The States of Texas, Louisiana, Mississippi, Alabama and Florida have federally approved coastal zone management programs (CZMP). Applicants for an OCS plan submitted to the Minerals Management Service must provide a certification with necessary data and information for the affected State to determine that the proposed activity(s) complies with the enforceable policies of each States' approved program, and that such activity will be conducted in a manner consistent with the program.

A Coastal Zone Management Consistency Certification for the State of Texas is not required for the activities proposed in this plan.

**Appendix J**  
**OCS Plan Information Form**

The OCS Plan Information Form MMS-137 was prepared in accordance with Appendix J of NTL 2003-G17 and is located in Appendix A as **Attachment A-1**.