

NOV 18 1985

In Reply Refer To: RP-2-i

Vanguard Offshore Management Company
Attention: Mr. David Law
Dresser Tower, Suite 500
601 Jefferson Street
Houston, Texas 77002

Gentlemen:

Reference is made to your Supplemental Plan of Exploration received November 13, 1985, for Lease OCS-G 6840, Block 24, Chandeleur Area. This plan includes the activities proposed for Wells C and D.

In accordance with 30 CFR 250.34, revised December 13, 1979, and our letter dated January 29, 1979, this plan has been determined to be complete as of November 18, 1985, and is now being considered for approval.

Your plan control number is S-1747 and should be referenced in your communication and correspondence concerning this plan.

Sincerely yours,

Original Signed: Douglas J. McIntosh

Acting Regional Supervisor
Rules and Production

bcc: Lease OCS-G 6840 (OPS-3-2) (FILE ROOM)
OPS-3-4 w/Public Info. Copy of the plan (PUBLIC RECORDS ROOM)
DO-5

ADGobert:gcw:11/15/85 Disk 3C

Office of
Program Services

NOV 25 1985

Information Services
Section

Vanguard Offshore Management Company

Suite 500 Dresser Tower

601 JEFFERSON STREET

HOUSTON, TEXAS 77002-7974

TELEPHONE
(713) 655-9355
TELEX: 77-5020

November 4, 1985

U. S. Department of the Interior
Minerals Management Service
P. O. Box 7944
Metairie, Louisiana 70010

MINERALS MANAGEMENT SERVICE

Attention: Mr. D. W. Solanas
Regional Supervisor

NOV 13 1985

RE: OCS-G-6840, Block 24
Chandeleur Area
Supplemental Plan of Exploration

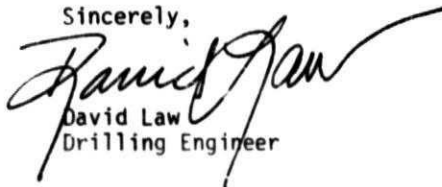
Gentlemen:

In accordance with 30 CFR 250.34, as amended, Vanguard Offshore Management Company herein respectfully submits for your approval, a Supplemental Plan of Exploration for lease OCS-G-6840, Block 24, Chandeleur Area, Offshore, Louisiana.

Vanguard Offshore Management Company submits ten (10) copies of the proposed Supplemental Plan of Exploration. Six (6) copies are considered Proprietary Information and are exempt from disclosure as allowed for in subsection (b) paragraph (9) of the Freedom of Information Act (81 Stat. 54; U.S.C. 552) as amended by Public Law 93-502, November 21, 1974, (88 Stat. 1561). Four copies are considered "Public Information". The information believed to be exempt is geological and/or geophysical. As Operator of this lease, Vanguard Offshore Management Company requests that this information and data considered to be exempt be dispensed for use only by the U.S. Government.

Thank you for your consideration in this matter. If further information is required, please contact the undersigned at your earliest convenience.

Sincerely,



David Law
Drilling Engineer

DL/JAC/CJG

Enclosures

"Public Information"

VANGUARD OFFSHORE MANAGEMENT COMPANY

SUPPLEMENTAL PLAN OF EXPLORATION

OCS-G-6840

CHANDELEUR AREA BLOCK 24

<u>SECTION</u>	<u>ITEM</u>
1	Introductory Letter
2	Proposed Type and Sequence of Exploration Activities and Time- table
3	Description of Drilling Vessel
4	Safety and Environmental Safeguards, including Oil Spill Contingency Plan
5	Approximate Location of Proposed Wells and Plat
6	Structural Interpretation and Shallow Drilling Hazards Report
7	Onshore Support Base Facilities
8	Mud Components
9	Air Quality Review

SUPPLEMENTAL PLAN OF EXPLORATION
OCS-G-6840

PROPOSED TYPE AND SEQUENCE OF
EXPLORATION ACTIVITIES AND TIMETABLE

Section 2

Vanguard Offshore Management Company proposes a Supplemental Plan of Exploration to drill two (2) additional wells on Chande'eur Block 24 to further evaluate the subject lease to determine the potential for future development.

Exploratory drilling of the first well is scheduled to commence on approximately November 8, 1985, subject to the approval of this Supplemental Plan of Exploration and issuance of the required Permit to Drill. Exploratory drilling should be completed by June 1, 1986.

It should be emphasized that this schedule is tentative in the meaning of 30 CFR 250.34-1(a). Additional exploratory drilling must be predicated upon the need to define structures and/or reservoir limits. The fabrication and installation of platforms, producing facilities and pipelines are contingent upon the success of these wells. In addition to the drilling of wells, other activities which may be conducted under this plan would be the setting of caissons or a template over temporarily abandoned wells, a velocity survey in a wellbore and soil borings.

SUPPLEMENTAL PLAN OF EXPLORATION
OCS-G-6840

DESCRIPTION OF DRILLING VESSEL

Section 3

The water depth in Chandeleur Block 24 is approximately 60 to 76 feet.

A jack-up rig, named "Acadian Spirit" will be utilized for exploratory drilling. A description of the rig, including the diverter system is included in this section.

Acadian Spirit

Capacities:

Potable Water: 800 Bbls
Fuel Oil: 900 Bbls
Drill Water: 4,000 Bbls
Pipe rack area: 500 Tons
Liquid mud system: 1,600 Bbls
Sack storage: 4,000 sacks
Bulk mud and cement: 5,300 cu. ft.

DRILLING EQUIPMENT

Blowout Preventers:

One 21 $\frac{1}{4}$ " 2,000 psi W.P. Hydril Type MSP annular blowout preventer
One 13 $\frac{1}{2}$ " 5,000 psi W.P.
Three 13 $\frac{1}{2}$ " 5,000 psi W.P. Cameron Type U blowout preventers.

Blowout Preventer Control Unit:

A Koomey Model T20220-3S blowout preventer control unit — 3,000 psi W.P. accumulator system with two function capabilities and with two remote stations capable of all functions.

Drawworks:

Continental-Emsco Model C-2, Type II drawworks 2,000 rated HP, with double drum grooved for 1 $\frac{1}{2}$ " drill line and 16,000' of $\frac{5}{16}$ " coring line, powered by two GE 752 DC electric motors, 1600 HP total, Model 7838 Elmagco auxiliary brake, Model TCB CROWN-O-MATIC.

Pumps:

Two Continental-Emsco FA-130C Triplex pumps, each powered by two GE 752-R DC electric motors, 1600 HP total, pulsation dampener on each pump.

Diesel-Electric Power:

Four Caterpillar Model D-398 TA Diesel (1000 HP each) driving four GE AC generators (1000 KVA each). Six GE SCR cubicles for power conversion from AC to DC and distribution to drilling functions. One GM Detroit Diesel

Model 16V-71 diesel engine (560 HP) driving AC emergency generator (500 KVA).

Derrick and Substructure:

147' high x 30' base Continental-Emsco 20R derrick, 1,000,000# hook load with 12 lines
Continental-Emsco 500 Ton Crown Block with seven-60" x 1 $\frac{1}{2}$ " sheaves
32' high substructure having a 750,000# casing capacity with a simultaneous setback capacity of 500,000 lb; two HSMC-125 ton 27" stroke hydraulic jacks.

Cranes:

Two Unit Mariner 500 cranes with 70' boom length rated 26,000# at a radius of 40'.

Rotary and Traveling Equipment:

Continental-Emsco Model T-3750 rotary table with 37 $\frac{1}{2}$ " opening independently driven by one GE 752 R DC electric motor, 800 HP, thru a two-speed transmission. 500 Ton Continental-Emsco RA-60-6 traveling block with six 60" x 1 $\frac{1}{2}$ " sheaves; 500 Ton Byron Jackson 5500 Dynaplex hook, 500 Ton Continental-Emsco LB-500 swivel, 42" x 5 $\frac{1}{4}$ " hex Kelly.

Drill Pipe and Drill Collars:

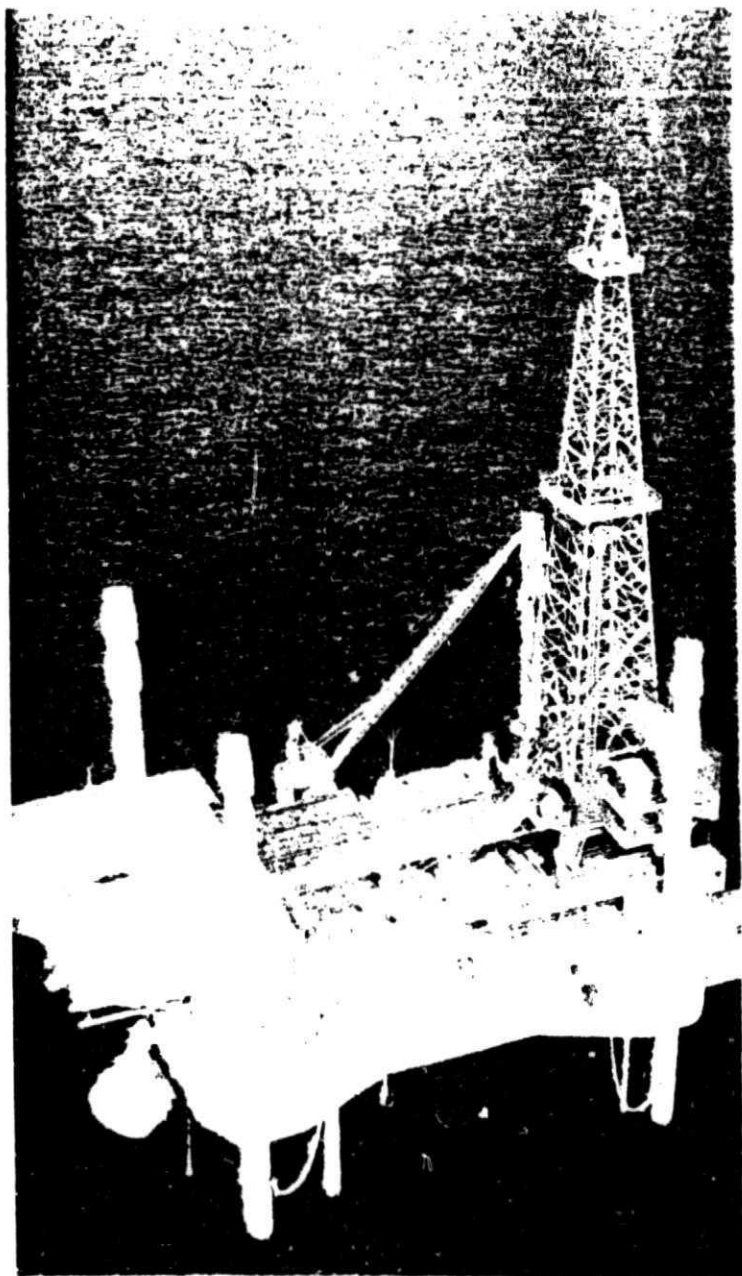
10,000' of 5" 19.50# Grade E Range (2) drill pipe with 5" X-Hole tool joints
5,000' of 5" 19.50# Grade G Range (2) drill pipe with 5" X-Hole tool joints
Nine 7 $\frac{1}{4}$ " OD x 2 $\frac{3}{16}$ " ID x 30' long drill collars with 6 $\frac{1}{2}$ " API Reg connections
Nine 7 $\frac{1}{4}$ " OD x 2 $\frac{3}{16}$ " ID x 30' long drill collars with 5 $\frac{1}{2}$ " API Reg connections
Eighteen 6 $\frac{1}{2}$ " OD x 2 $\frac{3}{16}$ " ID x 30' long drill collars with 5" H-90 connections.

Crew Quarters:

Air conditioned, weatherized accommodations for 52 men including galley, sleeping quarters, bath facilities, recreation area and laundry. Heliport suitable for Sikorsky S-61.

Rental Equipment:

Halliburton cementing skid comprised of 2-4" x 8" Halliburton HT-400 triplex cementing pumps (12,000 psi maximum pressure) each powered by GM Model 8V-71, diesel engines (280 HP) with 44-L mixing unit.



Designed and constructed by Bethlehem Steel Corporation, the "Acadian Spirit" drilling unit was built in accordance with the rules of the American Bureau of Shipping and is classified as an A-1 Self-Elevating Mobile Drilling Unit

VESSEL

Dimensions:

Platform: 170' x 80' (107' including yoke houses) x 14' deep containing drilling equipment, all working and living areas, with 70' x 70' heliport

Mat: Conventional Bethlehem "A" type: 170' x 132' x 13' (including 2' scour skirt)

Slot in mat: 54' long x 60' wide

Slot in Platform: 46' long x 45' wide

Columns: Four 6' O.D. x 173' x 3/4" to 1 1/8" wall structural steel

Jacking System: Bethlehem yoke and pin jacking system with electro-hydraulic drive providing a 5' working stroke. All jacking controls are centrally located in the control house

On Bottom Operating Conditions

(Non-Hurricane):

Design Wave Height: 30'

Design Wave Period: 10 sec.

Wind Speed: 70 knots

Water Depth: 12' min. and 112' max.

Bottom of Mat to Bottom of Platform: 137'

Variable Load: 3500 kips

On Bottom Operating Conditions

(Hurricane)

Design Wave Height: 50'

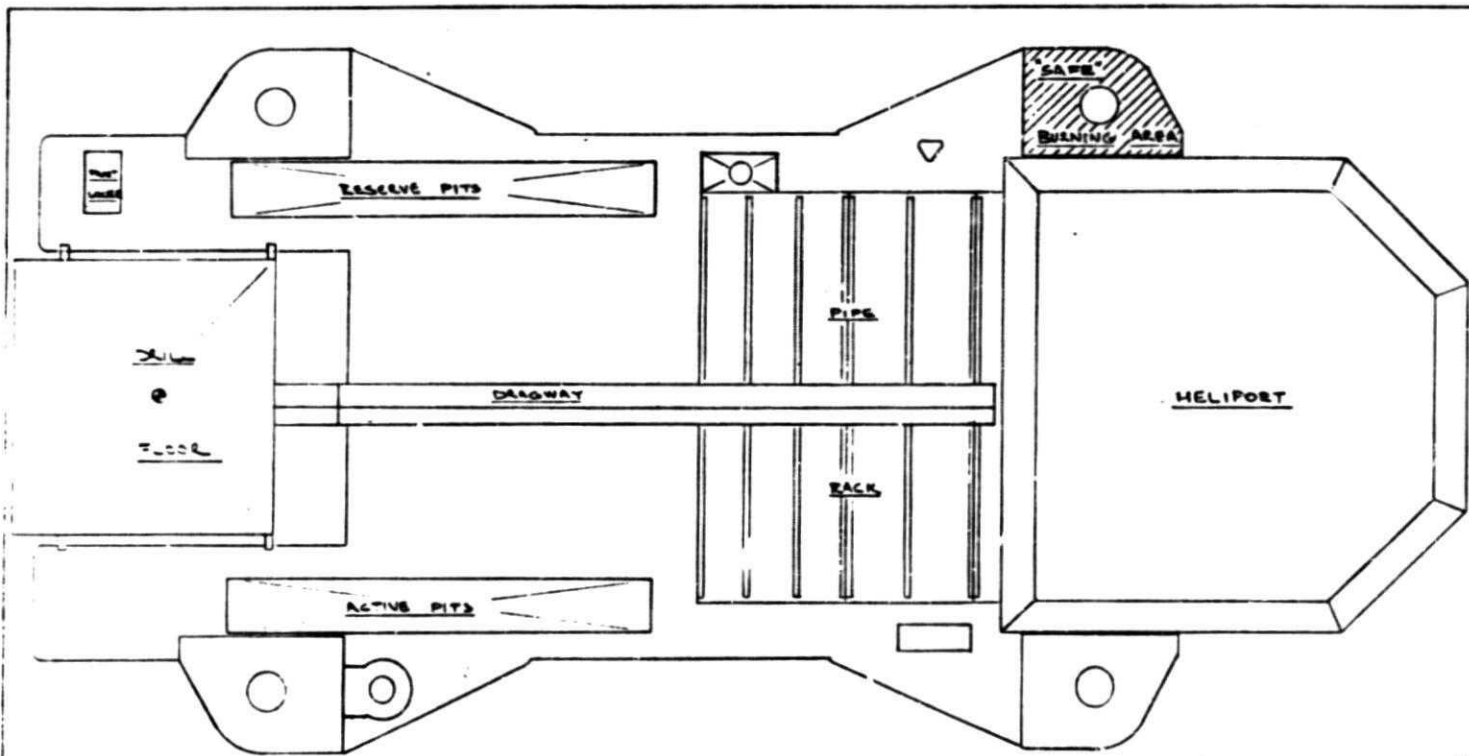
Design Wave Period: 12 sec.

Wind Speed: 100 knots

Water Depth: 12' min. and 100' max.

Bottom of Mat to Bottom of Platform: 137' max.

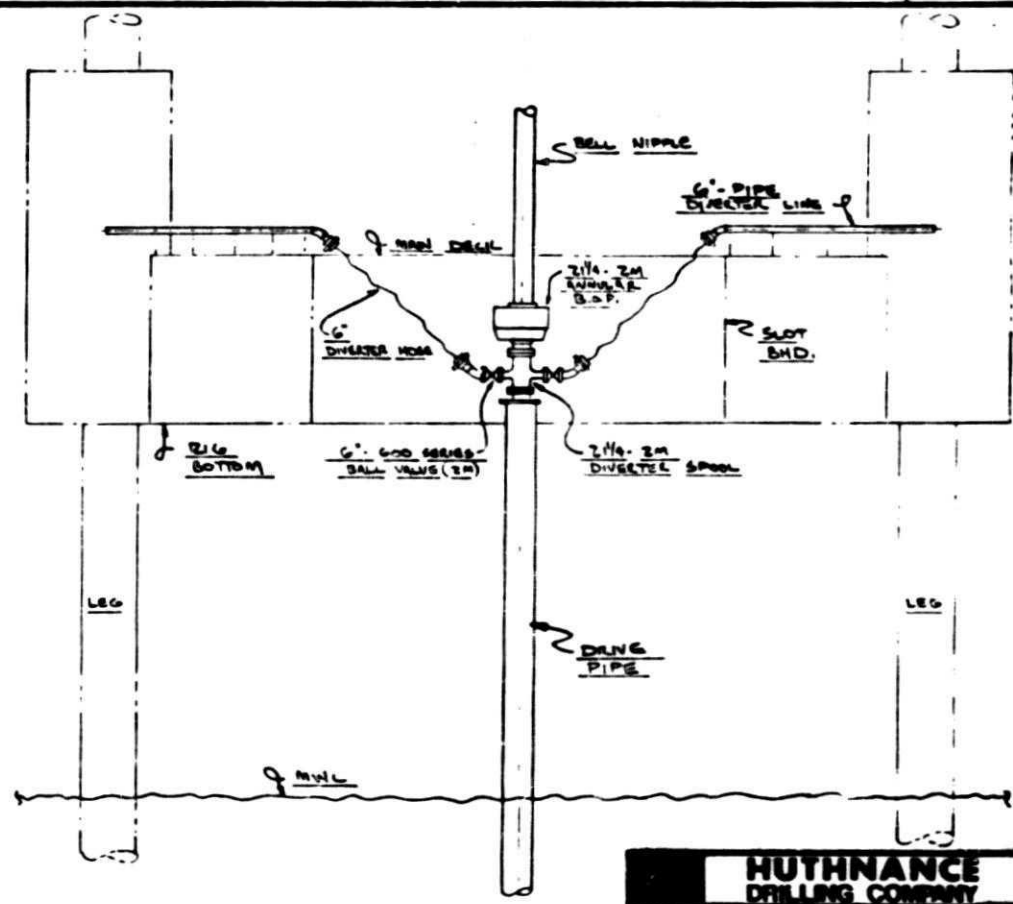
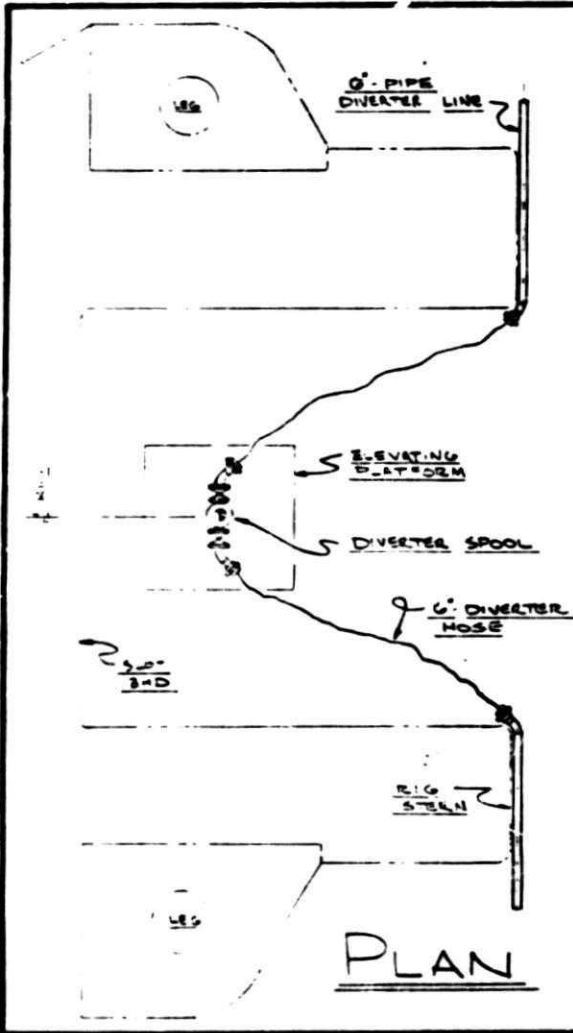
Variable Load: 3500 kips



ACADIAN SPIRIT

WELDER'S SAFE

BURNING AREA



HUTHNANCE DRILLING COMPANY	
NO. NADAM SPALT	DATE 05/11/55
DIVERTER SYSTEM	
DRAWN BY SHAO	SCALE 1" = 1'-0"
DATE 10/30/55	DRWG NO. 000000

SUPPLEMENTAL PLAN OF EXPLORATION
OCS-G-6840

SAFETY AND ENVIRONMENTAL SAFEGUARDS

Section 4

Safety features during drilling operations will include well control and blowout prevention equipment that meets or exceeds the requirements of OCS Order No. 2.

Oil in any form shall not be disposed of into the waters of the Gulf.

Liquid waste materials containing substances which may be harmful to aquatic life or wildlife, or injurious in any manner to life or property shall be treated to avoid disposal of harmful substances into the waters of the Gulf.

Drilling muds containing oil are not disposed of into the Gulf. This type of material is loaded and barged to shore for proper disposal. Drilling mud containing toxic substances are neutralized prior to disposal.

Drill cuttings, sand, and solids containing oil are not disposed of into the Gulf, unless the oil has been removed.

The subject offshore mobile drilling unit is equipped with drip pans under the rig floor. All oil from diesel engines is pumped to a sump and then pumped into barrels for return to an onshore site.

Operator personnel are instructed in the techniques and methods necessary to prevent pollution. Non-operator personnel are instructed and supervised to insure that non-pollution practices are adhered to.

The facilities are inspected daily.

OIL SPILL CONTINGENCY PLAN

Vanguard Offshore Management Company has submitted its Oil Spill Contingency Plan to the Minerals Management Service for review and approval. This plan designates an Oil Spill Team. This team's duties are to eliminate the sources of the oil spill, remove all sources of possible ignition, deploy the most viable means of available transportation to monitor the movement of the slick, and contain and remove the slick if possible. Vanguard Offshore Management Company is in the process of joining the Clean Gulf Associates (CGA). The CGA has four permanent bases in Louisiana; at Venice, Grand Isle, Intra-coastal City and Cameron, and two bases in Texas; at Galveston and Rockport. In addition to providing equipment, the CGA also supplies advisors for clean-up operations. Transport time to Chandeleur Block 24 could vary from 10 to 16 hours depending upon the location of company operated workboats or workboats available for charter.

SUPPLEMENTAL PLAN OF EXPLORATION
OCS-G-6840

APPROXIMATE LOCATION OF PROPOSED
WELLS AND PLAT

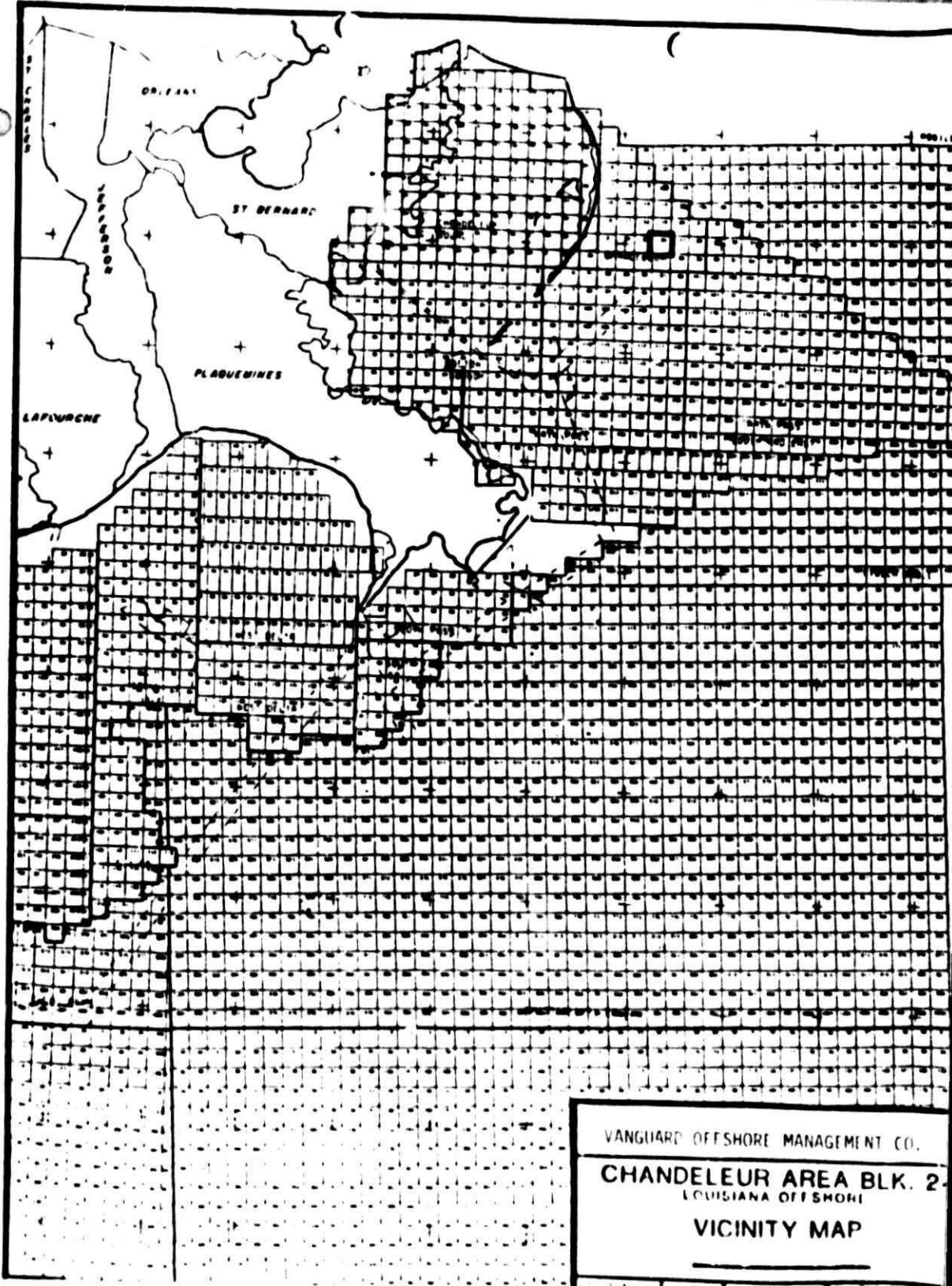
Section 5

Chandeleur Area Block 24 is located approximately 35 miles from the nearest shoreline off the Louisiana Coast. A vicinity plat is shown in this section.

<u>WELL NO.</u>	<u>PROPOSED LOCATION</u>	<u>PROPOSED DEPTH</u>
* C	Surf: 5150' FWL & 3500' FSL	TVD: 6500'
** D	Surf: 6200' FWL & 2750' FSL	TVD: 6500'

- * Well Location C (Surface) utilizes the same surface location of Well Location A which has been approved under the original Plan of Exploration.
- ** Well Location D (Surface) utilizes the same surface location of Well Location B which has been approved under the original Plan of Exploration.

"Public Information"



ORLANS

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PLAQUEMINES

LAFLORCHE

VANGUARD OFFSHORE MANAGEMENT CO.
CHANDELEUR AREA BLK. 2
LOUISIANA OFFSHORE
VICINITY MAP

BLK. 19

Vanguard Offshore Management Co.

O.C.S. - 6 - 6840

BLK. 25

BLK. 24

BLK. 23

VENACO

Loc. "D"

Loc. "C"

5150'

6200'

2750'

3500'

BLK. 32 "Public Information"

VANGUARD OFFSHORE MANAGEMENT CO

OCS - 6 - 6840

CHANDILEUR AREA

SUPPLEMENTAL PLAN OF EXPLORATION
OCS-G-6840

STRUCTURAL INTERPRETATION AND
SHALLOW HAZARDS REPORT

Section 6

PROPRIETARY DATA

SUPPLEMENTAL PLAN OF EXPLORATION
OCS-G-6840

ONSHORE SUPPORT BASE FACILITIES

Section 7

Vanguard Offshore Management Company will use existing onshore base facilities located at Venice, Louisiana. This will serve as port of debarkation for supplies and crews. No onshore expansion or construction is anticipated with respect to this activity.

This base is capable of providing the services necessary for the proposed activities. It has 24-hour service, a radio tower with phone patch, dock space, equipment and supply storage base, drinking and drill water, etc.

SUPPLEMENTAL PLAN OF EXPLORATION
OCS-G-6840

MUD COMPONENTS

Section 8

MUD COMPONENTS

COMPARABLE MUD PRODUCTS

I. ITEMS USED ON A ROUTINE BASIS

<u>IMCO</u>	<u>CHROMALOY</u>	<u>MILCHEM</u>	<u>MAGCOBAR</u>	<u>DESCRIPTION</u>
Imco Bar	Barite	Barite/Milbar	Barite/Magcobar	Barite
Imco Gel	Bentonite	Milgel	Magcogel	Bentonite
Imco Lig	Lignite	Ligco	Tannathin	Lignite
RD-111	C1-CLS	Uni Cal	Spercene	Blended Ligno-sulfonate
Caustic Soda	Caustic Soda	Caustic Soda	Caustic Soda	Sodium Hydroxide
Aluminum Stearate	Aluminum Stearate	Aluminum Stearate	Aluminum Stearate	Aluminum Stearate
Lime	Lime	Lime	Lime	Calcium Hydroxide
Imco Thin	----	Ligcon	XP-20	Modified Lignite
Soda Ash Bicarb	Soda Ash Bicarb	Soda Ash Bicarb	Soda Ash Bicarb	Sodium Carbonate Bicarbonate of Soda
Poly Rx	----	Chemtrol-X	Resinex	Selected Polymer Blend
Imco MD	Detergent	M.D.	D-D	Detergent
Foamban	FB-3	LD-8	Magconol	Defoamer (Usually alcohol based)

11. ITEMS USED LESS FREQUENTLY

<u>IMCO</u>	<u>CHROMALLOY</u>	<u>MILCHEM</u>	<u>MAGCOBAR</u>	<u>DESCRIPTION</u>
DMS	DMS	DMS	DMS	Nonionic Mud Surfactant
Imco Loid	Starch	Milstarch	My Lo Gel	Pregelatinized Starch
CMC	Drioscos Reg.	CMC	CMC	Sodium Carboxy Methyl Cellulose
Cypan	Cypan	Cypan	Cypan	Sodium Polyacrylate
Permaloid	Starlose	Perma-Lose	Poly Sal	Organic Polymer.
Drispac	Drispac	Drispac	Drispac	Polyanionin Cellulose
Eyp	Gypsum	Gyp	Gyp	Gypsum (Plaster of Paris)
HME/Super-dril	Hme/Superdril	HME/Superdril	HME/Superdril	Gilsonite (Treated) Natural Hydrocarbons + Wetting Agent
Black Magic DFT Supermix		Black Magic Supermix	Black Magic Supermix	Mud Concentrate for spotting fluid
Lubrikleen	Clean Spot	Lubrisal	Magolube	Organic Lubricant
Imco Myca	Mica	Mil-Mica	Mago-Mica	Mica-Flakes
Imco Plug	Nut Plug	Mil Plug	Nut Plug	Ground Walnut or other nut hulls
Ironite	Ironite	Ironite	Ironite	Synthetic Iron Oxide, H2S Scavenger
---	Zinc Carbonate	Mil Gard	---	H2S Scavenger (Zinc Carbonate)



November 4, 1985

PROJECTED AIR EMISSION SCHEDULE FOR SUPPLEMENTAL EXPLORATION PROJECT

GENERAL INFORMATION

Location of Facility:	Chandeleur Block 24 OCS-G-6840
Distance Offshore:	35 miles
Name of Rig/Platform:	Jack-Up
Operator:	Vanguard Offshore Management Company 601 Jefferson Street, Suite 500 Houston, Texas 77002-7974
Contact Person:	Mr. David Law
Total Well Footage to be Drilled:	16,117'
Total Well Footage to be Drilled in 1985:	7,504'
Total Well Footage to be Drilled in 1986:	8,613'
Date Drilling Will Begin:	November 8, 1985
Date Drilling Will End:	June 1, 1986

MAJOR SOURCE (OFFSHORE)

Power used aboard drilling vessel; approximate footage drilled 16,117'.*

<u>Emission Substance</u>	<u>Project Emissions (lbs/day**ton/year)</u>			
	<u>1985</u>		<u>1986</u>	
CO	(66)	1.49	(76)	1.71
SO ₂	(21)	.47	(24)	.54
NO _X	(310)	6.98	(356)	8.01
VOC	(25)	.56	(29)	.65
TSP	(22)	.50	(25)	.57

* Based on 60 hphr/ft. from Table 4-3, "Atmospheric Emissions from Offshore Oil and Gas Development and Production", EPA No. 450/3-77-026, June 1977.

** Emission factors from Table 3.3.3-1, "Compilation of Air Pollutant Emission Factors", Third Edition, EPA Report AP-42, August 1977.

Projected Air Emissions
 Chandeleur Block 24
 Vanguard Offshore Management Company
 Page 2

MINOR SOURCES (OFFSHORE)*

Including helicopter landing and take-off (7 trips/week); supply boat (7 trips/week) and crew boat (4 trips/week); loading and unloading operations.

<u>Emitted Substance</u>	<u>Projected Emissions (tons/year)</u>	
	<u>1985</u>	<u>1986</u>
CO	.26	.26
SO ₂	.01	.01
NOX	.06	.06
VOC	.02	.02
TSP	.01	.01

* Tables 3.2.1-3, 3.2.3-1, and 2.1, "Compilation of Air Pollutant Emission Factors", Third Edition, EPA Report AP-42, August 1977.

TOTAL ALL SOURCES (TONS/YEAR)

	<u>CO</u>	<u>SO₂</u>	<u>NOX</u>	<u>VOC</u>	<u>TSP</u>
<u>1985</u>					
Major	1.49	.47	6.98	.56	.50
Minor	.26	.01	.06	.02	.01
Total	1.75	.48	7.04	.58	.51
<u>1986</u>					
Major	1.71	.54	8.01	.65	.57
Minor	.26	.01	.06	.02	.01
Total	1.97	.55	8.07	.67	.58

ONSHORE SOURCES

These should be about the same as minor sources unless new facilities are installed at the onshore base. No additional facilities are required or planned at this time.

EMISSION EXEMPTION DETERMINATION

For CO: $E = 3400D^{2/3} = 3400 (35)^{2/3} = 36,380$ tons/year
 For NOX, VOC, TSP & SO₂: $E = 33.3D = 33.3 (35) = 1166$ tons/year

Projected Air Emissions
Chandeleur Block 24
Vanguard Offshore Management Company
Page 3

As per DOI/MMS regulations, this facility is exempt from further air quality review as it has been determined that its operations will not have a significant adverse environmental impact on air quality.