

S-2087
OCS-G-3197

In Reply Refer To: FO-2-1

March 23, 1988

Chevron U.S.A. Inc.
Attention: Mr. M. S. Witten
Post Office Box 6056
New Orleans, Louisiana 70174

Gentlemen:

Reference is made to your Supplemental Development Operations Coordination Document (DOCD) received March 9, 1988, for Lease OCS-G 3197, Block 120, Main Pass Area. This DOCD includes the activities proposed for Wells CA-5 and C1-6.

In accordance with 30 CFR 250.34, revised December 13, 1979, and Notice to Lessees and Operators No. 84-1, this DOCD is hereby determined to be complete and is now being considered for approval.

Your control number is S-2087 and should be referenced in your communication and correspondence concerning this DOCD.

Sincerely yours,

(Orig. Sgd.) A. Donald Girou

For D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: Lease OCS-G 3197 (OPS-3-2) (FILE ROOM)
OPS-3-4 w/Public info. Copy of the DOCD (PUBLIC RECORDS)

WTolbert:cck:03/09/88:dccdcom



Chevron U.S.A. Inc.
 P. O. Box 6056 - New Orleans, LA, 70174

February 29, 1988

Supplemental Development
 Operation Coordination Document (DOCD)
 Lease OCS-G-3197
 Main Pass Block 120

Regional Supervisor
 Office of Field Operations
 U. S. Department of the Interior
 Minerals Management Service
 Gulf of Mexico OCS Region
 1201 Elmwood Park Blvd.
 New Orleans, LA 70123-2394



Gentlemen:

Pursuant to 30 CFR 250.34, Chevron U.S.A. Inc. hereby submits for approval a Supplemental DOCD for the drilling of two (2) wells from our existing "CA" Platform in Main Pass Block 120, Lease OCS-G-3197.

1. Proposed Wells

The surface location of the "CA" Platform and the two (2) proposed wells, OCS-G-3197 #CA-5 and OCS-G-3197 #CA-6 is as follows:

6400' FSL and 2500' FEL of Main Pass Block 120
 Water Depth: 125'

2. Activity Schedule

The proposed drilling activity is as follows:

<u>Well</u>	<u>Commence Drilling</u>	<u>Drill and Complete</u>	<u>Estimated Completion Date</u>
OCS-G-3197 #CA-5	10/15/88	43 Days	11/27/88
OCS-G-3197 #CA-6	9/01/88	41 Days	10/12/88

3. Onshore Support Facilities

The proposed activity which is planned for Main Pass Block 120 is located approximately 40 miles east of Venice, Louisiana, Offshore Plaquemines Parish, Louisiana, as shown on the vicinity map.

Onshore support and storage facilities required for the proposed activity are Chevron's existing facilities located at Venice, Louisiana and Harvey, Louisiana. The existing base at Venice covers 45+ acres and is located adjacent to Grand

Pass and Louisiana State Highway 23. The base contains a heliport, office, communication equipment and a dock with facilities for loading and unloading marine equipment. The Harvey base is small, 2.5 acres, and is used for temporary storage of casing and well equipment. This activity is not expected to increase base requirements.

A supply boat is expected to make two round trips weekly from Venice to the Main Pass Block 120 Field. A crew change helicopter is based at Venice and should average two round trips daily. A field helicopter makes one round trip weekly to Venice and is utilized on-site to provide daily shuttle service between platforms during the rest of the week. Boats will be routed from Venice downriver, through Main Pass, and then directly from the mouth of Main Pass to the platform. Helicopters will take the most direct route possible, weather and traffic conditions permitting.

4. Oil Spill Contingency Plan

In accordance with OCS Order #7, Chevron, as an operator in the Gulf of Mexico, has on file an Oil Spill Contingency Plan Revision approved by the Minerals Management Service on August 18, 1987. Chevron is a member of Clean Gulf Associates (CGA) and, as such, has access to the personnel and equipment necessary to contain and cleanup oil spills in the offshore and estuarine areas. Based on the distance from the CGA installation in Venice, Louisiana, to South Pass Block 56, we estimated a travel and deployment time of approximately six (6) hours.

5. Description of Drilling Rig

Chevron plans to use Noble Drilling Company's rig, "Sam Noble", or a similar type rig to drill the above mentioned wells. This drilling rig is a jackup mobile drilling unit and contains well control and containment, pollution control, firefighting and lifesaving equipment, and a sewage treatment system to comply with Minerals Management Service and U.S. Coast Guard requirements. Descriptive information on this drilling rig is attached.

In accordance with 30 CFR 250.34, we enclose the following documents:

1. Vicinity Map
2. Location Plat
3. Structure Maps
4. Cross-Section Map
5. Shallow Drilling Hazard Report
6. Rig Specifications
7. Air Emissions Calculations

Chevron believes that the structure maps and schematic cross-section map submitted with this proposed Development Plan are exempt from disclosure under the Freedom of Information Act, and should, therefore, not be made available to the public or provided to any affected state or to the executive of any local government.

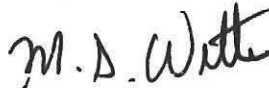
U. S. Department of the Interior
Minerals Management Service

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February 29, 1988

If any further information is needed, please contact the undersigned at (504) 364-2382 or Ms. S. M. Bergeron of this office at (504) 364-2242.

Very truly yours,



M. S. Witten
Coordinator
Environment, Safety, Fire & Health
Eastern Production Division

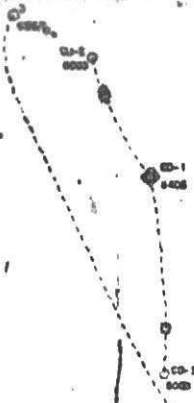
SMB
Enclosures

CD-2
5000

111

+

G4263

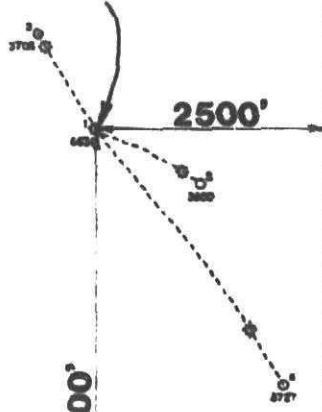


CHEVRON

SURFACE LOCATION

OCS-G-CA-5 & CA-6 ("CA" STR.)

120 +



**CHEVRON U.S.A.
OFFSHORE LOUISIANA**

**MAIN PASS BLOCK 120
PROPOSED SURFACE LOCATION
OCS-G-3197 CA-5 & CA-6**

G3197

SCALE: 1"=2000' 2/18/88

12126



WORK LOCATION
BLOCK- 120
MAIN PASS AREA

G U L F O F M E X I C O

REGIONAL MAP

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SAM NOBLE

CONTRACTOR FURNISHED EQUIPMENT

DERRICK: Lee C. Moore 147' x 30' with capacity of 1,250,000#

HULL: Livingston Class 111-C Jack-up with National rack & pinion jacking system. 186' x 200' x 22'8"

OPERATING DEPTH: Maximum operating depth 300' water
Minimum operating depth 31' water

SUBSTRUCTURE: Cantilever (from transom to maximum drilling position) 30'0" - 1,000,000# capacity at center line & 8' off center line.
(from transom to maximum workover position) 35'0" - 1,000,000# capacity at center line & 10' off center line - 780,000#

DRAWWORKS: Oilwell E-300 with Kelco make up and break out catheads, V-295 hydrox brake, complete with overriding clutch, crown-o-mati complete with Martin Decker driller console.

CROWN BLOCK: Oilwell A600 crown block rated at 600 tons with 7-60" steel sheaves grooved for 1-3/8" wire line.

HOOK: One BJ 5500 Dynaplex with 500 ton rating

ELEVATOR LINKS: 1 - pr. BJ 2-3/4" x 132" 350 ton rated
1 - pr. BJ 3-1/2" x 144" 500 ton rated
1 - Doll head assembly with 1-3/4" x 36" links 80 ton rate

SLIPS: 1 - Varco type PS-15 spring operated with necessary equipment
2 - Varco type SDXL for 5" drill pipe
1 - Varco type DCS-R for 7" drill collars
1 - Varco type DCS-L for 7-3/4" drill collars

ELEVATORS: 1 - BJ type TA-150 ton for 6-1/2" & 7" drill collars
1 - BJ type TA-150 ton for 7-3/4" drill collars
1 - BJ type GG-350 ton for 5" drill pipe
1 - BJ type MGG-250 ton for 5" drill pipe

ROTARY TABLE: Oilwell 49-1/2" with HI and Low reduction gear and air brake, driven by G.E. 752 electric motors

ROTARY DRIVE BUSHINGS: 1 - Varco 27 HDP for 5-1/4" API hex kelly - 49-1/2" rotary table
1 - Varco kelly bushing safety guard assembly for 49-1/2" rotary table
1 - Varco MPCH hinged pin drive master casing bushing for 49-1/2" rotary table

TRAVELING BLOCK: Oilwell 650 7-Sheaves 1-3/8" wireline 650 tons

KELLY: Drilco 5-1/4" hex with 7-3/4" O.D. top upset with 6-5/8" API regular LH box up with 2-13/16" bore bottom upset being 6-3/8" O.D. with 4-1/2" IF pin

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SWIVEL: Oilwell PC-650 with standard equipment
ROTARY HOSE: Two 3-1/2" I.D. x 60', 10,000# test
WEIGHT INDICATOR: Martin Decker model AWD9-1 with Hercules type 131 wireline anchor
WIRELINE: 10,000' x 1-3/8" drilling line
 20,000' x 9/16" sandline
TONGS: 3 - tongs BJ type DB complete with lug jaws to accomodate 3-1/2" to 17" pipe with H6B (G)-28 torque indicating sys
MEASURING DEVICE: 1 Mathey surveyor wireline unit with maximum capacity of 20,000' of .092 line
AIR HOIST: Rig Floor: 2 - I-R type RSUL
 Cellar Deck: 2 - I-R type RSUL
 Derrick: 1 - I-R EUAB/PT winch
 Conductor Pipe Snubbing: 4 - Beebe Brothers HM-12W hand winch
WELDING MACHINES: 1 - Lincoln 400 amp
ENGINE PRIME MOVERS: 3 - EMD model 16-645E8, 1950 HP ea. at 900 rpm with spark arresting exhaust silencer, complete with automatic shutdown equipment
AIR COMPRESSORS: 3 - Airdyne model H50BP40 for rig air
 1 - Airdyne model 227FR3 bulk air reduction system with necessary equipment
 1 - Airdyne L50B for bulk system
 1 - Airdyne model 7TD cold start compressor package with Lister 8 hp diesel engine
ELECTRIC GENERATORS: 3 - EMD model AB20, 2625KVA at 600 volts, 3 phase, 60 hertz: 1950 continuous HP with 2200 hp drilling service, ABS 1400 KW with 1575 KW drilling service
D.C. ELECTRIC MOTORS: 8 - G.E. 752 AR electric motors, 900 hp
 3 on drawworks
 2 ea. on mud pumps
 1 on rotary
HIGH PRESSURE MUD PUMPS: 2 - Oilwell A1700-PT 7-1/2" x 12" triplex
ACCUMULATOR: 1 - Koomey model T25240-3S with manifold and remote controls with model T315-25-3 triplex pump with 24 eleven gallon bladder type separate accumulators, Unit complete with model AC-62 air pump package and air control panel and necessary equipment
KELLY SPINNER: 1 - International Tool model A-6C-2
B.O.P. HANDLING SYSTEM: 1 - Houston Systems 30 ton; hydraulic powered with control unit and necessary equipment

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CRANES: 2 - FMC Link Belt model ABS/API-218A with 100' boom
88,300# capacity. with Jib 10'

CAPACITIES: Drill water: 5,670 bbls
Fuel: 4,495 bbls
Potable Water: 819 bbls
Total reserve active,
& slug pits: 1,124 bbls

SEWAGE PLANT: 1 - Red Fox model RF-2000C with Paco PIP-550 lift station
Coast Guard approved for 100 men

DRILL PIPE SPINNER: 1 - Spinnerhawk model 13, air operated drill pipe spinner

FISHING TOOLS: Fishing tools and subs for contractor's drill pipe and
equipment

MUD LAB: 1 - Baroid model 821

EMERGENCY GENERATOR SET: 1 - Caterpillar model D379 series B, diesel generator set,
4 cycle, V-8, 6.25" bore x 8" stroke, 3 phase,
1200 RPM, 420 KW (prime), 480 volt

ROTARY TORQUE INDICATOR: 1 - Martin Decker model 102A with dual indicating dial
for foot/pounds and amps

AUTOMATIC DRILLER: 1 - "Bearcat" automatic with necessary equipment

BUG BLOWERS: 2 - Brandt model B-150, 15,000 CFM

TORQUE WRENCH: 1 - type NSW with necessary equipment

INTERCOM SYSTEM: 1 - Gai-Tronics consisting of;
14 - ea. weatherproof stations
7 - ea. indoor stations
3 - ea. explosion proof stations

CENTRIFUGAL MUD PUMPS: 2 - Mission Magnum 8" x 6" x 14" charging pumps
2 - Mission Magnum 8" x 6" x 14" mud mixing pumps
1 - Mission Magnum 8" x 6" x 14" desander pumps
1 - Mission Magnum 8" x 6" x 14" desilter pump
1 - Mission Magnum 8" x 6" x 14" degasser pump
1 - Mission Magnum 8" x 6" x 14" spare pump
All centrifugal pumps driven by 75 hp electric motors

MUD AGITATORS: 3 - model 85Q20 Lightning mud mixers with 20 hp electric mtr
1 - model 82Q5 Lightning mud mixers with 5 hp electric mtrs

DESANDER: 1 - Demco model 123 vertical desander with (3) 12" cones

MUD CLEANER: 1 - Demco model 4 MC16 mud cleaner with 16 ea. 4" style "T"
cones

DEGASSER: 1 - Swaco "D" Gasser

SHALE SHAKER: 1 - Derrick low profile dual shale shaker

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MUD SYSTEM:

- 1 - Demco 5" 10,000# W.P. dual standpipe with 5" XXH piping with Demco 10,000# valves and (2) 3-1/2" x 60" drilling hoses with Martin Decker 0 - 10,000# gauges and necessary equipment

SAFETY VALVES:

- 1 - Omsco 15,000# KV900 kelly cock
- 3 - Omsco 10,000# test lower kelly valves - 4-1/2" IF
- 1 - Omsco 10,000# test inside B.O.P. valves - 4-1/2" IF

P-TANKS:

- 3 - ea. 1130 cu. ft.; 12'0" dia. x 15'0" high, ASME coded for 40 psi - for mud
- 3 - ea. 1130 cu. ft.; 12'0" dia. x 15'0" high, ASME coded for 40 psi - for cement

SACK MUD STORAGE:

Sack cement: 900 sq. ft. floor area
Sack chemicals & mud: 900 sq. ft. floor area

BLOWOUT PREVENTERS:

- * 1 - Hydril 21-1/4" 2000 psi annular with 21-1/4" bore
- ** 1 - Shaffer spherical 13-5/8" x 5000#
- 1 - ea. 13-5/8" Cameron type "U" 10,000# single
- 1 - ea. 13-5/8" Cameron type "U" 10,000# double
- 3 - 5" Rams, 1 blind

CENTRIFUGAL PUMPS:

- 2 - Mission 4 x 3 x 13 drill water
- 2 - Mission 3 x 2 x 13 fire water pumps
- 2 - Opeco submersible raw water pumps. 1 spare
- 2 - Crane Deming 2" potable water pumps
- 2 - Crane Deming 2" sanitary water pumps
- 2 - Gorman Rupp bilge & ballast pumps
- 2 - Brown & Sharp fuel transfer pumps
- 1 - Brown & Sharp dirty oil pump

HELIPORT:

51'6" x 62' suitable for S-61 Sikorsky helicopter

QUARTERS:

For 84 men with 2 galleys, recreation area, offices, etc.
Three level; 90' long x 28' wide x 30' high

LIFEBOATS:

- 2 - ea. 58 man Watercraft lifeboats
- 2 - ea. 25 man Davit launched liferafts

MOORING WINCHES:

- 4 - Skagit model JUQ-074

CHOKE MANIFOLD:

10,000 psi with 1 positive choke
1 hand adjustable choke

TEXAS DECK:

- 1 - 16' x 16' with (2) - I-R 2 Drum air winch

RIG SKID JACKS:

- 2 - HSMC 350 ton jacks push or pull @ 2459 psi hydraulic pressure with claws
- 2 - HSMC 125 ton jacks push or pull @ 2500 psi hydraulic pressure with claws
- 1 - HSMC Explosion Proof Power Unit

* Hydril element and seal replacements to be furnished by Operator
** Shaffer spherical element and seal replacements to be furnished by Operator

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DIVERTER SYSTEM:

1 - 8" System with 20" Hydril

DRILL PIPE:

10,168' - 5" 19.5# Grade "E"
8,246' - 5" 19.5# Grade "G"
403 - 5" X-95
900' - 5" 48.0# Heviwate
12 - 6-1/2" Drill Collars 1/2" TH zip grooved
20 - 7-3/4" Drill Collars 3/8" TH Reg. Zip Grooved

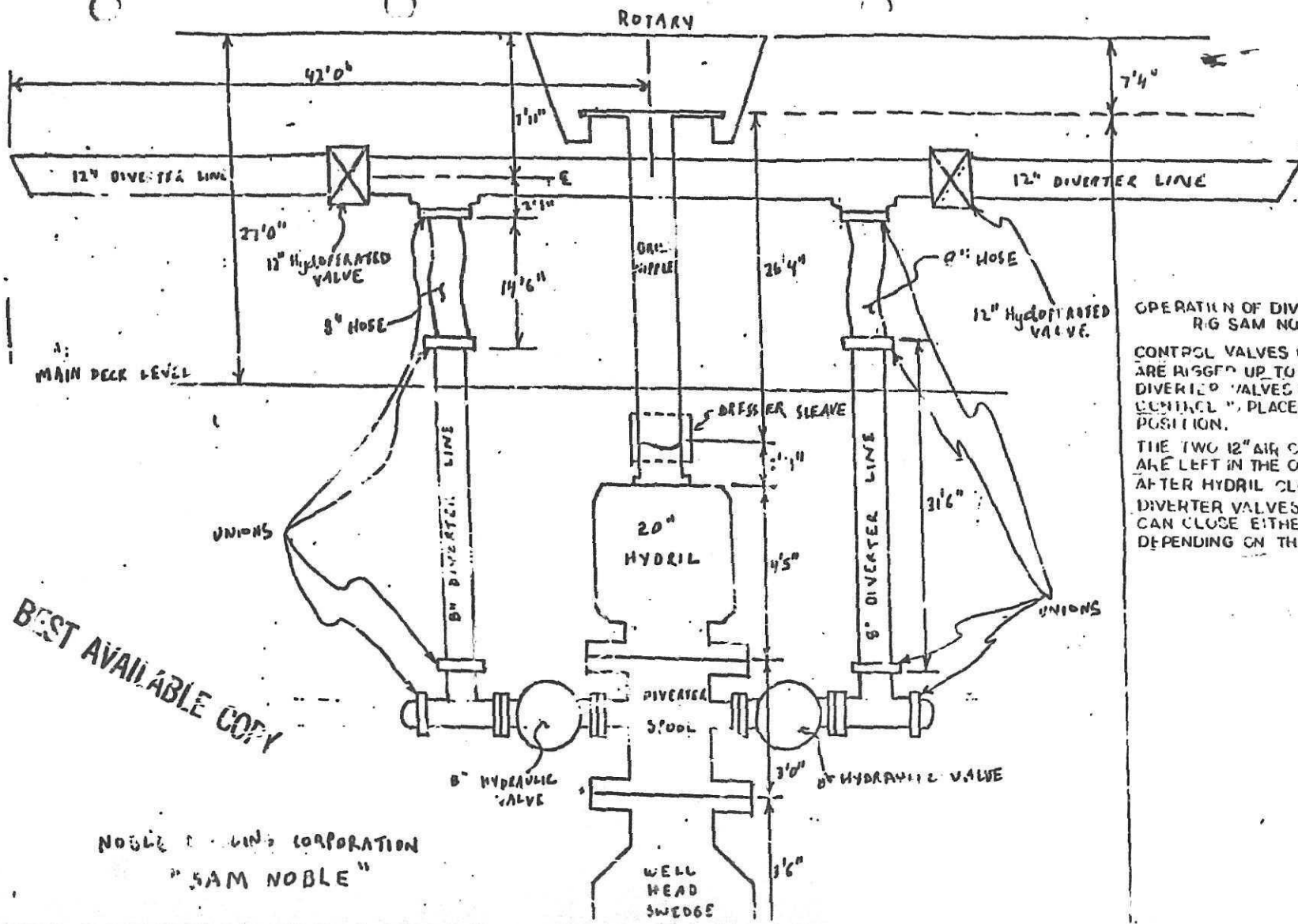
CEMENTING UNIT:

Haliburton

TOP DRIVE:

Varco Top Drive System

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OPERATION OF DIVERTER SYSTEM
R.G. SAM NOBLE.

CONTROL VALVES ON ACCUMULATOR
ARE RIGGED UP TO OPEN 8" HYDRAULIC
DIVERTER VALVES WHEN HYDRIL
CONTACT IS PLACED IN THE CLOSED
POSITION.

THE TWO 12" AIR OPERATED VALVES
ARE LEFT IN THE OPEN POSITION.
AFTER HYDRIL CLOSURE AND THE 8"
DIVERTER VALVES OPEN, YOU
CAN CLOSE EITHER 12" VALVE
DEPENDING ON THE WIND DIRECTION.

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NOBLE & COMPANY CORPORATION
"SAM NOBLE"

AIR QUALITY CALCULATIONS
DEVELOPMENT
MAIN PASS BLOCK 120

Air quality calculations are based upon the drilling of two (2) development wells

expected to begin in September, 1988 and to require about 34 days. Fuel consumption for the drilling rig is estimated at 2,000 gallons per day. Details of the calculations are presented in Tables 1 - 3. All projected emissions are well below maximum allowable limits and this operations is therefore exempt.

TABLE 1

PROJECTED AIR EMISSION
WELLS 2
BLOCK Main Pass 120

EMISSION SOURCE	RUNNING TIME/DAY	TAKEOFF & LAND- INGS/DAY	FUEL CON- SUMPTION GALS/DAY	EMISSION FACTORS POUND/1,000 GALS.					EMISSION FACTORS AIRCRAFT TAKEOFF & LANDINGS					PROJECTED EMISSION 1-DAY PROJECTION IN #									
				SO ₂	NO _x	CO	TSP	VOC	SO ₂	NO _x	CO	TSP	VOC	SO ₂	NO _x	CO	TSP	VOC					
DRILLING RIG	24 hrs.		2000	31.2	469	102	33.5	37.5								62.4	938	204	67	75			
CARGO BOAT (IN BERTH)	2 hrs.		4	31.2	469	102	33.5	37.5								0.1	1.3	0.4	0.1	0.2			
CREW BOAT (IN BERTH)	20 hrs.		40	31.2	469	102	33.5	37.5								1.2	18.7	4.1	1.3	1.5			
HELICOPTER TAKE- OFF & LANDINGS									.18	.57	5.7	.25	.52			.7	2.3	23.0	1.0	2.1			
														1-DAY TOTAL					64.4	960.9	231.5	69.4	78.3

ABOVE NUMBERS IN POUNDS

Projected emissions are based on data from "Compilation of Air Pollutant Emission Factors", 3rd Edition AP-2, EPA, 1977. Table 3.3.3.-1 and Table 3.2.1.-3.

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AREA Main Pass BLOCK 120 WELLS 2

PROJECTED EMISSIONS FROM EACH SOURCE

**BY AIR POLLUTANT FOR 1988
Year**

DRILLING OPERATIONS - WELLS

SOURCE	AIR POLLUTANT (T/YR)				
	SO ₂	NO _x	CO	TSP	VOC
Drilling Rig Projected Emissions lb/day	62.4	938	204	67	75
Transportation-- Cargo Boat, Crew Boat, & Helicopter lb/day	2.1	22.9	27.5	2.5	3.8
SUB-TOTAL lb/day	64.5	960.9	231.5	69.5	78.8
Miscellaneous 2% of Sub-total	16.1	240.2	57.8	17.4	19.7
TOTAL In lb/day	80.6	1201.1	289.3	86.9	98.5
TOTAL In Tons/year	3.4	50.4	12.2	3.6	4.1

TABLE 3

AREA Main Pass BLOCK 120 WELLS 2

EXEMPTION CALCULATIONS

$E = 3400 (D^{2/3})$ for carbon monoxide

$E = 33.3 D$ for sulfur dioxide, nitrogen oxides, total suspended particulates, and volatile organic compounds

$D =$ 19 Statute Miles

$E =$ 24209 CO

$E =$ 633 SO₂, NO_x, TSP, and VOC

POLLUTANTS	"E" (T/YR.)	1988	EXEMPT (Yes or No)
		HIGHEST YEAR PROJECTED EMISSIONS (T/Yr.)	
SO ₂	633	3.4	Yes
NO _x	633	50.4	Yes
CO	24209	12.2	Yes
TSP	633	3.6	Yes
VOC	633	4.1	Yes

E = The emission exemption amount expressed in tons per year.

D = The distance of the facility from the closest onshore area of a state expressed in statute miles.