UNITED STATES GOVERNMENT MEMORANDUM

March 30, 2004

To:

Public Information (MS 5034)

From:

Plan Coordinator, FO, Plans Section (MS

5231)

Subject:

Public Information copy of plan

Control #

S-06398

Type

Supplemental Development Operations Coordinations Document

Lease(s)

51 South Timbalier Area 52 South Timbalier Area OCS-G01240 Block -

OCS-G01241 Block -

Operator

Chevron U.S.A. Inc.

Description -

Wells #30 and #A through #D

Rig Type

JACKUP

Attached is a copy of the subject plan.

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

Plan Coordinator

Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
WELL/#30	G01241/ST/52	1169 FSL, 3520 FWL	G01240/ST/51
WELL/#A	G01241/ST/52	1169 FSL, 3520 FWL	G01240/ST/51
WELL/#B	G01240/ST/51	1185 FNL, 5803 FEL	G01240/ST/51
WELL/#C	G01241/ST/52	4552 FNL, 2627 FEL	G01241/ST/52
WELL/#D	G01241/ST/52	6338 FSL, 5389 FWL	G01241/ST/52

NOTED-SCHEXNAILDRE

Chevron U.S.A. Inc. GOM SBU/HES 935 Gravier Street New Orleans, LA 70112-1625 Tel 504 592 6853 Fax 504 592 6668 sron@chevrontexaco.com S. A. Rondeno Permit Specialist S-6398

March 25, 2004

ChevronTexaco

Regional Supervisor
U. S. Dept. of the Interior
Minerals Management Service
1201 Elmwood Park Blvd.
New Orleans, LA 70123-2394

Supplemental DOCD South Timbalier Block 51 OCS-G-1240 South Timbalier Block 52 OCS-G-1241 Offshore, Louisiana



Gentlemen:

Pursuant to 30 CFR 250.204, Chevron U.S.A. Inc. submits this Supplemental DOCD for South Timbalier Block 51, Lease OCS-G-1240 and South Timbalier Block 52, Lease OCS-G-1241 Offshore, Louisiana.

We have enclosed 9 copies of this Supplemental DOCD, 5 Proprietary and 4 Public Information. These wells are being drilled within 500' of a previously approved surface location; therefore no report of seismic information is enclosed.

Chevron believes that the structure maps and cross-section maps submitted with this revised DOCD 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. Please call me should you have any questions or need additional information.

Very truly yours,

Kontens

S. A. Rondeno

enclosure

CHEVRON U.S.A. INC.

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

SOUTH TIMBALIER BLOCK 51 OCS-G-1240 SOUTH TIMBALIER BLOCK 52 OCS-G-1241 MAR 2 9 2004

PIELD

OPERATIONS

OPERATIONS

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OPERATIONS

March 24, 2004

SECTION A	CONTENTS OF PLAN
SECTION B	GENERAL INFORMATION
SECTION C	GEOLOGICAL, GEOPHYSICAL & H2S INFORMATION
SECTION D	BIOLOGICAL INFORMATION
SECTION E	WASTES AND DISCHARGES INFORMATION
SECTION F	OIL SPILL INFORMATION
SECTION G	AIR EMISSIONS INFORMATION
SECTION H	ENVIRONMENTAL IMPACT ANALYSIS
SECTION I	CZM CONSISTENCY INFORMATION
SECTION J	OCS PLAN INFORMATION FORM



SECTION A

CONTENTS OF PLAN

(Lease Description/Activity, Objective, Schedule, Location, Drilling Unit, Production Facilities)

LEASE DESCRIPTION

South Timbalier Block 51 OCS-G-1240's lease effective date is March, 1967 and South Timbalier Block 52 OCS-G-1241's lease effective date is January, 1967. These leases are located off the Louisiana Coast in the Central Gulf of Mexico.

OBJECTIVE

Chevron submits this Supplemental Development Operations Coordination Document to allow for the drilling, production and development of South Timbalier Block 51 OCS-G-1240 Well #B and South Timbalier Block 52 OCS-G-1241 Wells #30, #A, #C and #D. Plans are to drive 24" and 36" conductors adjacent to existing satellite locations with deck installation connected to the existing caissons or satellite structures.

SCHEDULE

Tentative schedules (from start to completion) of the development and production activities are included as Attachment A-2 MMS-137 "OCS Plan Information Form" in accordance with Appendix J.

LOCATION

A Location/Bathymetry Plat depicting the surface location is enclosed as Attachment A-1, A-1A, A-1B, A-1C, and A-1D.

We have included as Attachment A-2 Form MMS-137 "OCS Plan Information Form" in accordance with Appendix J. The form includes a table indicating the surface location, bottom hole location, TVD, MD and water depth of the proposed wells and the surface location and water depth of each facility. Also included in the table is the distance from the lease lines, the Lambert x-y coordinates and the latitude and longitude. The type of lift/derrick barge to be used during the construction activities will be either a self elevating lift barge, spud barge or a dynamic positioning type barge, which uses thrusters to hold the barge in place during operations. In any case, an anchor pattern is not required.

DRILLING UNIT

The subject well will be drilled and completed utilizing the Pride Kansas Jack-up drilling rig. The drilling unit is designed to operate in water depths from twenty feet (25') to three hundred twenty eight feet (328'). The rig has a drilling depth capacity of 25,000 feet. Copies of the appropriate specifications will be included with the Permit to Drill (APD), and submitted to the appropriate MMS District Office.

The rig is equipped with safety, fire fighting and lifesaving equipment required to comply with USCG and ABS requirements including two (2) 54-person life boats, four (4) 25-person inflatable rafts, 104 individual life preservers, fire fighting equipment and general alarm system.

The rig has the necessary diverter system, blowout preventer, auxiliary equipment and mud testing and monitoring equipment. Drilling operations will be conducted in a manner so as to maximize pollution prevention in accordance with Title 30 CFR Part 250, Subpart C. All other safety control equipment will be used in accordance with the applicable subparts of Title 30 CFR Part 250.

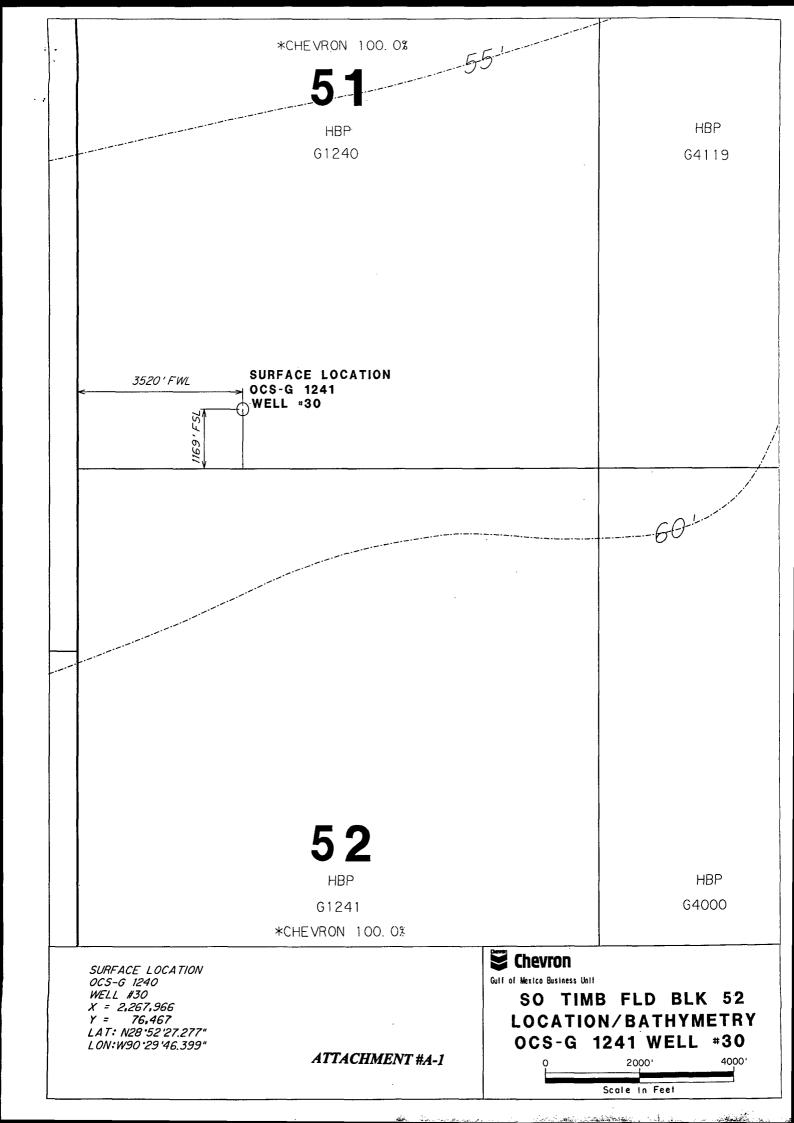
The MMS is required to conduct onsite inspections of offshore facilities to ensure that operators are complying with lease stipulations, operating regulations, approved plans and other conditions, as well as to ensure that the safety and pollution prevention requirements are being met.

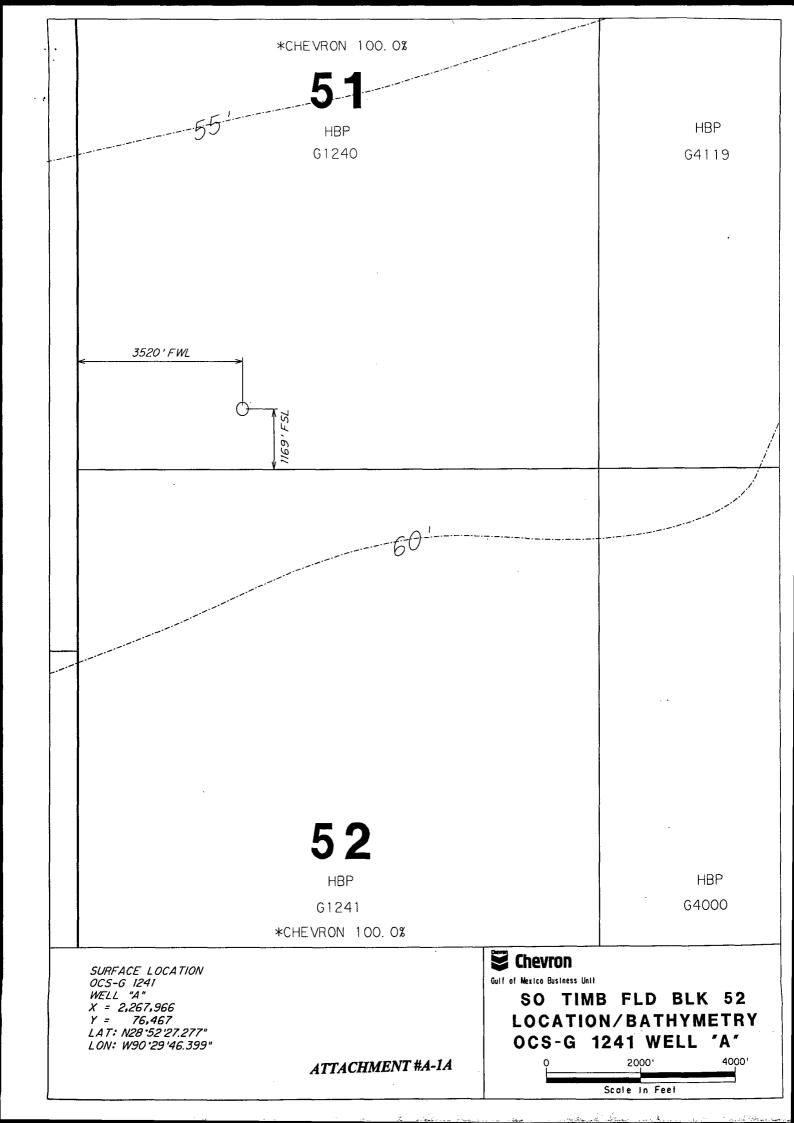
PRODUCTION FACILITIES

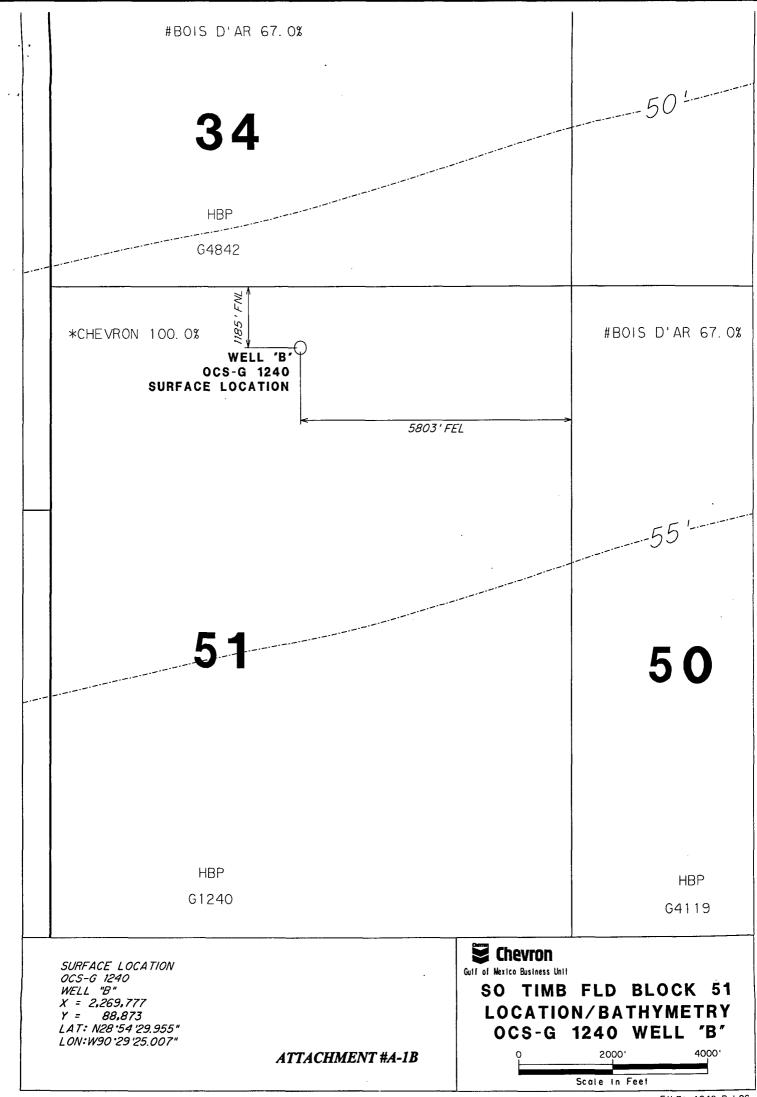
South Timbalier 52 A, B, C & CA are a complex of productions platforms that are bridge connected. They have all the necessary production handling equipment: pipeline production and test headers; bulk separating system; gas compression, dehydration metering and sales; oil treating, metering and sales; water processing and clarification for overboard discharge; living quarters for up to 55 people; electric generators; and fixed cranes. This complex is designed to gather, process, and sell sales quality natural gas and crude oil.

The oil is processed, metered and delivered into the 8" Pipeline Segment #4244, CPL (Operations System No. 36.0)

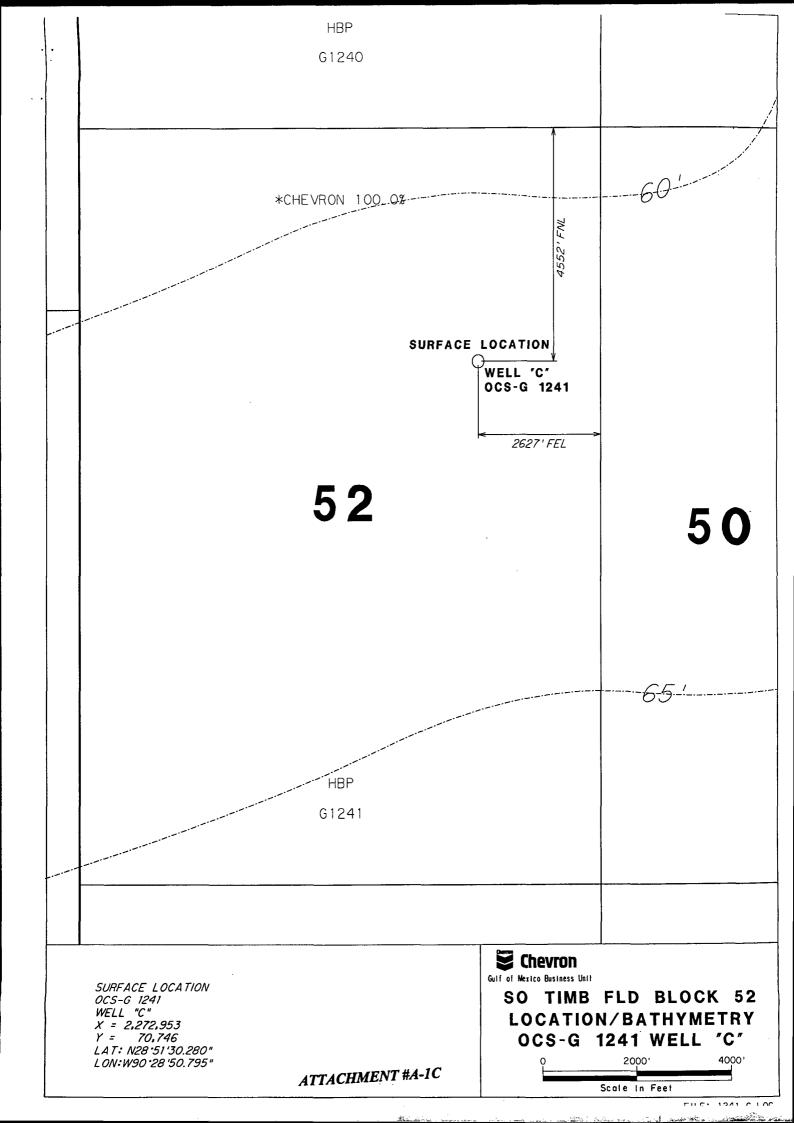
The gas is dehydrated, metered and delivered into the 8" Pipeline Segment #1675, Trunkline (Operations System No. XEO25.0).

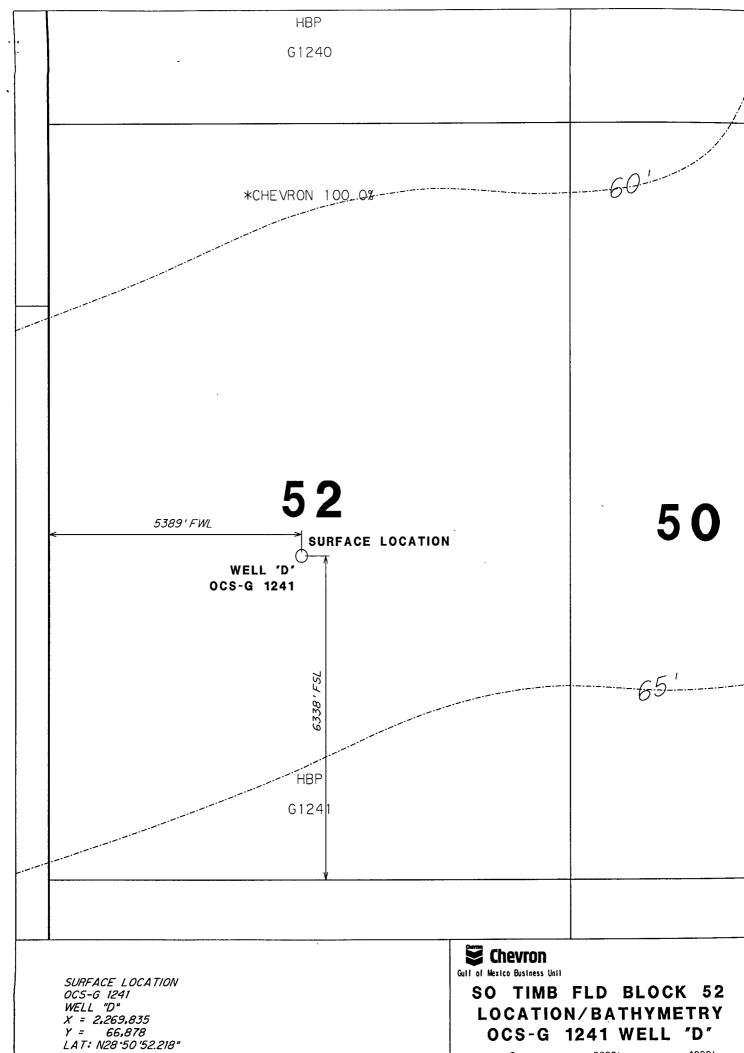






FILE: 1240_B. LOC





Y = 66,878 LAT: N28:50'52.218" LON: W90 '29 '26.174"

ATTACHMENT #A-1D



OCS PLAN INFORMATION FORM

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

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Company Name: Ch						umber: 00078	<u>, </u>				
Address: 935	Gravie	r Street		Contact Person: Shirley A. Rondeno							
Ne	w Orlear	ns, LA 70112	I	Phone Number: (504) 592-6853							
			I	E-Mail Address: sron@chevrontexaco.com							
Lease(s): G-1240	Area: So	outh Timbalier	F	Block(:	s) 51 & 52	Project Name					
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Commence production				09/21/	04						
Drill and complete Well #A"			06/01/	05	06/30/05			30			
Install deck addition				05/20/	05	06/01/05			12		
Install pipeline			06/30/05		07/15/05			17			
Commence production				07/21/							
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Install deck addition			La company	05/20/		06/01/06			12		
Install pipeline	<u>. </u>			07/15/		07/26/06		-	11		
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ST 51 OCS-G-1240		ST 52 "C.				"			3700'		
ST 51 OCS-G-1240 #		ST 51 "C				,,			4300'		
ST 52 OCS-G-1241		ST 52 "A			6	,,,	4800'				
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Area Name	South Timbal	ier						
Block No.	51							
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		Prop							
Well or Stru # C	ucture Name / N	umber (If renaming					Sub sea Completion N/A		
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		Surface Locati	on		Bott	om-Hole Lo	ocation	(For Wells)	
Lease No.	OCS-G-1241		'						
Area Name	South Timbal	ier							
Block No.	52								
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(in feet)		E / W Departure	: 2627'	FE L	E / W Departu	ıre:		F L	
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OCS PLAN INFORMATION FORM (Continued)

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

			Prop			ture Location					
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Anchor Rac	lius (if applica	able)	in feet						Yes X No		
		.0.2550.00.	Surface Locati	on		Bott	om-Hole L	ocation	(For Wells)		
Lease No.	OCS-G-124	-1									
Area Name	South Timb	alier									
Block No.	52										
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			E / W Departure	: 5389'	FW L	E / W Departu	re:		F L		
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					X=		Y=				
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					X=		Y=				
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					X=		Y=				
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SECTION B GENERAL INFORMATION

(Contact, Project Name, Production rates and life of reserves, New or Unusual Technology, Bonding Information, Onshore Base and Support Vessels, Lease Stipulations, Related OCS facilities and operations, Transportation Information)

CONTACT

Shirley A. Rondeno Chevron U.S.A. Inc. 935 Gravier Street, Room 731 New Orleans, LA 70112 (504) 592-6853

Email: sron@chevrontexaco.com

PROJECT NAME

There is no project name for this Document.

PRODUCTION RATES AND LIFE OF RESERVES

The estimated life and production rates are as follows:

Well	Life of Reservoir	Average/Peak Production Rate
OCS-G-1241 #30		
OCS-G-1241 #A OCS-G-1240 #B		
OCS-G-1241 #C		
OCS-G-1241 #D	144-	

NEW OR UNUSUAL TECHNOLOGY

This document does not propose the use of any new or unusual technologies.

BONDING INFORMATION

In accordance with the regulations contained in Title 30 CFR 256, Subpart 1 and further clarified in Notice to Lessees (NTL 2000-G16); Chevron has on file with the Minerals Management Service and is covered by a \$3,000,000.00 area-wide bond 103312842-0012 effective October 18, 2001.

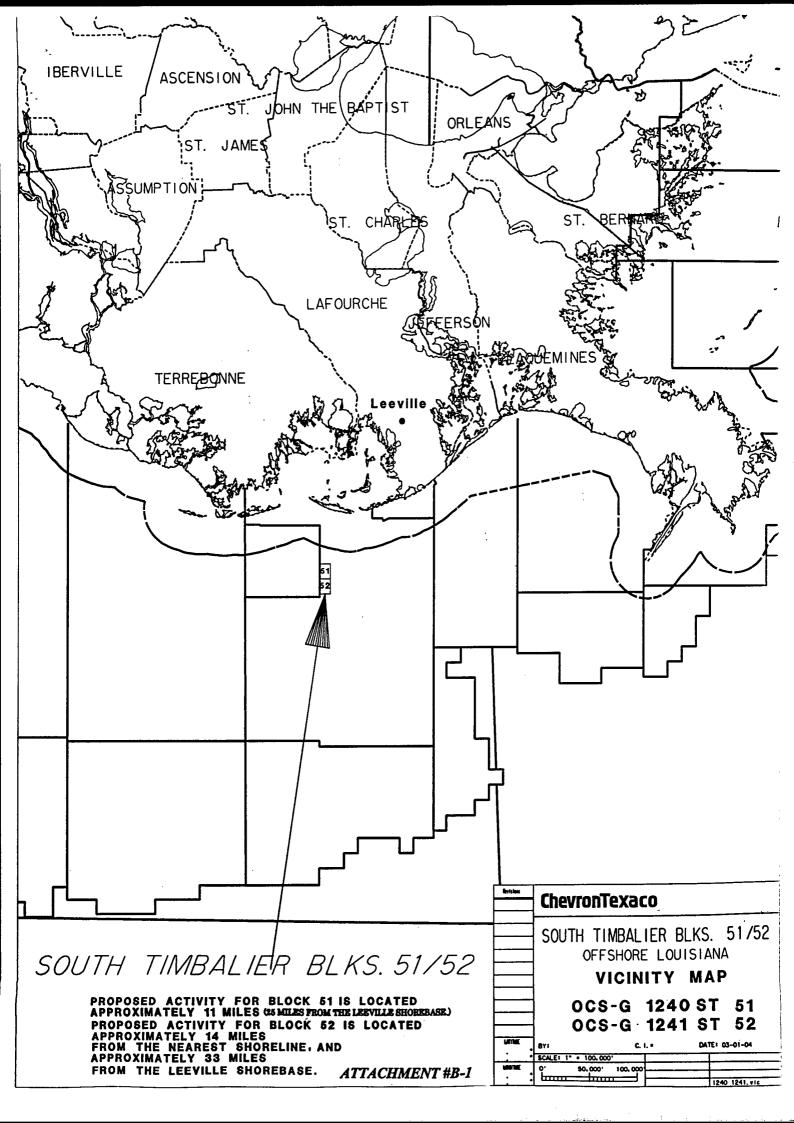
ONSHORE BASE AND SUPPORT VESSELS

South Timbalier Blocks 51 is approximately 11 statute miles from the nearest shoreline, and approximately 25 miles from our shore base located in Leeville, Louisiana. South Timbalier Block 52 is approximately 14 statute miles from the nearest shoreline, and approximately 33 miles from our shore base located in Leeville, Louisiana. A vicinity plat showing the location of the blocks relative to the shoreline and the onshore base is included as Attachment B·1.

The Leeville Shorebase will serve as port of debarkation for supplies and crews. No onshore expansion or construction is anticipated with respect to the proposed activities. This base is capable of providing the services necessary for the proposed activities. It has 24-hour service, a radio tower with a phone patch, dock space, equipment and supply storage base, drinking and drill water, etc.

Helicopters will travel to and from this location and Chevron's Leeville Base and other platforms in the area. Travel frequencies of helicopters and support vessels during drilling and completion operations are listed below.

	Drilling	Construction	Production
Crewboat	7/week	14 days/well	2/week_
Workboat	2/week	N/A	N/A
Helicopters	2/week	N/A	2/week



LEASE STIPULATIONS

There are no lease stipulations which would affect any drilling or production associated with this DOCD.

RELATED OCS FACILITIES AND OPERATIONS

Production from Wells #30, A, B, C, and D will be directed to either High or Low Pressure production and test separators and be commingled with production from leases OCS-G 1240, OCS-G 1241, OCS-G 2624 and OCS-G 3336. Separated liquids will flow through a chem-electric treater and then will be metered for sales into 8" Pipeline Segment #4244, CPL (Operations System No. 36.0). Separated gas will be compressed as necessary, dehydrated and then metered for sales into 8" Pipeline Segment #1675, Trunkline (Operations System No. XEO25.0).

TRANSPORTATION METHOD

Production from the proposed wells will be handled by existing transportation lines departing from the 8" Pipeline Segment #4244, CPL (Operations System No. 36.0) and the 8" Pipeline Segment #1675, Trunkline (Operations System No. XEO25.0).

Chevron does not anticipate the installation of any new downstream pipelines and/or processing facilities as a result of the new production from the proposed wells.

SECTION C GEOLOGICAL & GEOPHYSICAL

(Structure Maps, Interpreted Seismic Lines, Cross-Sections, Shallow Hazards Report, Shallow Hazards Assessment, High Resolution Seismic Lines, Stratigraphic Columns, H2S Information)

STRUCTURE MAPS

Current structure maps are not included.

INTERPRETED SEISMIC LINES

The proposed wells will be drilled within 500' of a previously approved surface location; therefore, no interpreted seismic lines are required.

CROSS-SECTION MAPS

Interpreted geological structure Cross-Section Map are not included

SHALLOW HAZARDS REPORT

A Hazard Study Report was prepared for South Timbalier Block 51 by John Chance in July, 1981. A Hazard Study was prepared for South Timbalier Block 52 by Gulf Ocean Services in January 1997. Three copies of these reports have previously been submitted to the Minerals Management Service. New Shallow Hazard Reports are not required because the wells will be drilled within 500' of existing structures.

SHALLOW HAZARD ASSESSMENT

A Shallow Hazard Analysis has been prepared for the proposed surface location, evaluating seafloor and subsurface geological and manmade features and conditions. The possibility of any shallow geologic hazard will be taken into account prior to the drilling of the proposed well or performing any of the other development activities. A copy of the Shallow Hazard Analysis was previously submitted. New Shallow Hazard Reports are not required because the wells will be drilled within 500' of existing structures.

HIGH RESOLUTION SEISMIC LINES

The proposed operations will be conducted adjacent to previously approved surface locations; therefore, copies of the high resolution seismic lines are not required.

HYDROGEN SULFIDE (H2S)

In accordance with the requirement that the lease be classified regarding H2S, based on the drilling of previous wells, from this location, no nearby occurrences of H2S associated with the activities were encountered; therefore, we request that the area in which the operations will be conducted be classified as an area where the absence of H2S has been confirmed.

SECTION D

BIOLOGICAL AND PHYSICAL INFORMATION

(Chemosynthetic, Topographic Information)

CHEMOSYNTHETIC

The seafloor disturbing activities proposed under this Document are in water depths less than 400 meters (1312 feet). This section of the plan is not applicable.

TOPOGRAPHIC INFORMATION

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

The activities proposed under this Document are not affected by a topographic feature.

LIVE BOTTOM (PINNACLE TREND) INFORMATION

In accordance with NTL 99-G16, a survey report containing a bathymetry map prepared by using remote sensing techniques must be submitted to the Gulf of Mexico OCS Region (GOMR) before you can conduct any drilling activities or install any structures, including lease term pipelines on leases affected by the Live Bottom Stipulation.

South Timbalier Blocks 51 and 52 are not located within the vicinity of a proposed live bottom area and therefore, this section of the plan is not applicable.

REMOTELY OPERATED VEHICLE (ROV) SURVEYS

Pursuant to NTL 2001-G04, operators may be required to conduct remote operated vehicle (ROV) surveys during prespud and post drilling operations for the purpose of biological and physical observations.

The seafloor disturbing activities proposed under this Document are in water depth less than 400 meters (1312 feet), therefore, an ROV survey plan is not required.

SECTION E WASTE AND DISCHARGE INFORMATION

DISCHARGES

Discharges describe those wastes generated by your proposed activities that you dispose of by releasing them into the waters of the Gulf of Mexico at the site where they are generated, usually after receiving some form of treatment before they are released, and in compliance with applicable NPDES permits or State requirements.

In accordance with NTL 2003-G17 overboard discharges generated by our proposed activities proposed by this Document are not required to be submitted in this Supplemental Development Operations Coordination Document. All discharges will be in compliance with our NPDES General Permit GMG 290000.

DISPOSED WASTES

Disposed wastes describe those waste generated by your proposed activities that are disposed of by means other than by releasing them into the waters of the Gulf of Mexico at the site where they are generated. These wastes can be disposed of by offsite release, injection, encapsulation, or placement at either onshore or offshore permitted locations for the purpose of returning them back to the environment.

Chevron U.S.A., Inc. will manifest these wastes prior to being offloaded from the structure and transported to shore for disposal at approved sites regulated by the State of Louisiana. Chevron will utilize the UIC-28 Waste Manifest Shipping Tickets to monitor the transportation and disposition of this associated waste; and will comply with any approvals or reporting and record keeping requirements imposed by the State where ultimate disposal will occur.

The Table included in Attachment E-1 details those wastes generated by our proposed activities that are disposed of by means of offsite release, injection, encapsulation or placement at either onshore or offshore permitted locations for the purpose of returning them back to the environment.

Table 2. Disposal Table Example (Wastes to be disposed of, not discharged) Attachment E-1

Type of Waste Approximate Composition	Amount*	Rate per Day	Name/Location of Disposal Facility	Treatment and/or Storage, Transport and Disposal Method
Spent oil-based drilling fluids and cuttings	None	None	None	None
Spent synthetic-based drilling fluids and cuttings	None	None	None	None
Oil-contaminated produced sand	None	None	None	None
Waste oil	None	None	None	None
Produced water	None	None	None	None
Produced water	None	None	None	None
Norm-contaminated wastes	None	None	None	None
Trash and debris	1000 ft ³	3 ft³/day	Solid Waste Disposal Inc./Riverbirch Landfill Avondale	Transport in storage bins on crew boat to shorebase
Chemical product wastes	None	None	None	None
Chemical product wastes	None	None	None	None
Workover fluids	None	None	None	None

^{*}can be expressed as a volume, weight, or rate

SECTION F OIL SPILL INFORMATION

The following information is regarding our Regional Oil Spill Response Plan (OSRP) submitted to the Minerals Management Service for approval on February 28, 2002 and approved on September 10, 2002.

Chevron USA, Inc., Four Star Oil and Gas Co. and ChevronTexaco Pipeline Company, Inc. all of which are wholly or partially owned subsidiaries of Chevron Texaco Corporation are covered under the above referenced OSRP as well as the activities proposed in this Initial Development Operations Coordination Document.

All produced liquid hydrocarbons associated with this application will be transported by pipeline.

Clean Gulf Associates (CGA) and Marine Spill Response Corporation (MSRC) are our primary oil spill removal organizations and they will supply the necessary equipment and personnel. CGA and MSRC have equipment pre-staged around the Gulf of Mexico. The major locations of this equipment are Lake Charles, Intracoastal City, Houma, Grand Isle, Fort Jackson and Venice, Louisiana; Galveston, Texas; and Pascagoula, Mississippi.

As noted in our Regional Oil Spill Response Plan, approved on September 10, 2002, Grand Isle Shipyard, Grand Isle, LA and Mississippi State Port Authority-Port of Gulfport, Gulfport, MS are possible staging areas in the worst-case discharge scenarios. Additional staging areas are Chevron's four (4) shore bases located in Intracoastal City, Leeville and Venice, Louisiana and Pascagoula, Mississippi. Other staging areas will be pursued as warranted by any specific response.

Please refer to the attached table to compare worst-case scenario from our OSRP to the worst-case scenario from the proposed activities in our Initial Development Operations Coordination Document.

Category	Regional OSRP "Nearshore" Worst- Case Discharge Scenario	Regional OSRP "Farshore" Worst-Case Discharge Scenario	Regional OSRP "Mobile Rig Exploration Drilling Ops." Worst-Case Discharge Scenario	DOCD
Type of Activity (Types of activities include P/L, P/F, Caisson, subsea completions or manifold, and mobile drilling rig)	Platform Well	Sub-sea Completion	Drillship	Mobile Drilling Rig
Spill Location (area/block)	South Timbalier Block 37 OCS-G-02625	Green Canyon Block 237 OCS-G-15563	Green Canyon Block 640 OCS-G-20082	ST Block 51 OCS-G-1240 ST Block 52 OCS-G-1241
Facility Designation (e.g., Well #2, Platform JA, Pipeline Segment No. 6373)	Platform I – Well #8 MMS Facility ID No. 186	Platform A – aka "Typhoon" Well #282-1 MMS Facility ID No. 735	Exploratory Lease	Wells No. #30, #A, #B, #C, #D
Distance to Nearest Shoreline (miles)	8 miles	92 miles	118 miles	11.0 miles (ST 51) 14 Miles (ST 52)
Volume Storage Tanks (total) Flowlines (on facility) Lease Term Pipelines Uncontrolled Blowout (volume per day)	0 barrels 7,607 barrels	900 barrels 21,000 barrels	37,688 barrels 154,900 barrels	2164 barrels (rig) 1.0 barrels 240 barrels 5000 barrels
Total Volume	7,607 barrels	21,900 barrels	192,588 barrels	7,405 barrels
Type of Oil(s) (crude oil, condensate, diesel)	Crude Oil	Crude Oil	Crude Oil	Crude
APIE Gravity(s)-Provide APIE gravity of all oils given under "Type of Oil(s)" above. Estimate for EP's)	32º	32.90	28° , 36°	35.0°

Please be advised that updated Worst Case Discharge Analysis information was submitted to MMS for review and approval with the Biennial Update to our Regional Oil Spill Response Plan, on February 28, 2004. Since Chevron has the capability to respond to the worst-case spill scenario included in its Regional OSRP, previously approved on September 10, 2002, and since the worst-case scenario determined for our Initial Development Operations Coordination Document does not replace the worst-case scenario in our Regional OSRP; I hereby certify that Chevron has the capability to respond, to the maximum extent practicable, to a worst-case discharge, or a substantial threat of such a discharge, resulting from the activities proposed in our Supplemental Development Operations Coordination Document

Facility Tanks, Production Vessels

The following table provides information on tanks and/or production vessels at the facility that will store oil with a capacity of 25 barrels or more.

Type of Storage Tank	Type of Facility	Tank Capacity (bbls)	Number of Tanks	Total Capacity (bbls)	Fluid Gravity (API)
Fuel	Jack-Up	2164	1	2164	N/A

Spill Response Sites

The following table provides information on the location of the primary spill response equipment and the location of preplanned staging area(s) that may be used in the event of an oil spill resulting from activities.

Primary Response Equipment Location	Preplanned Staging Location (s)
Leeville, LA	Grand Isle Ship Yard, Grand Isle, LA

Produced Liquid Hydrocarbons Transportation Vessels

Chevron proposes to transport the produced liquid hydrocarbons by lease pipelines; therefore this section of the Document is not applicable.

SECTION G AIR EMISSIONS INFORMATION

Offshore air emissions related to the proposed activities result mainly from drilling and completion operations, helicopters and vessels. These emissions occur mainly from burning fuels and natural gas and from venting or evaporation of hydrocarbons. The combustion of fuel occurs primarily on diesel-powered generators, pumps or motors and from lighter fuel motors.

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

Included in this section as Attachment G-1 is the Projected Air Quality Emissions Report (Form MMS-139), prepared in accordance with NTL 2003 G-17.

AIR EMISSIONS REPORT SUPPLEMENTAL DOCD SOUTH TIMBALIER BLOCK 51 LEASE OCS-G-1240

PLAN EMISSIONS

CHEVRON U.S.A. INC. S. A. RONDENO Date: MARCH 2004

Is any calculated Complex Total (CT) Emission amount (in tons) associated with your proposed exploration activities more than 90% of the amounts calculated using the following formulas: CT = 3400D ^{2/3} for CO, and CT = 33.3D for the other air pollutants (where D = distance to shore in miles)?	¥®.	No
Do your emission calculations include any emission reduction measures or modified emission factors?		
Are your proposed exploration activities located east of 87.5° W longitude?		
Do you expect to encounter H ₂ S at concentrations greater than 20 parts per million (ppm)?		
Do you propose to flare or vent natural gas for more than 48 continuous hours from any proposed well?		
Do you propose to burn produced hydrocarbon liquids?		

Sugaring Questions for DOCD 3	- J.J.	No
Is any calculated Complex Total (CT) Emission amount (in tons) associated with your proposed exploration activities more than 90% of the amounts calculated using the following formulas: CT = 3400D ^{2/3} for CO, and CT = 33.3D for the other air pollutants (where D = distance to shore in miles)?		x
Do your emission calculations include any emission reduction measures or modified emission factors?		х
Does or will the facility complex associated with your proposed development and production activities process production from eight or more wells?		х
Do you expect to encounter H ₂ S at concentrations greater than 20 parts per million (ppm)?		х
Do you propose to flare or vent natural gas in excess of the criteria set forth under 250.1105(a)(2) and (3)?		х
Do you propose to burn produced hydrocarbon liquids?		Х
Are your proposed development and production activities located within 25 miles from shore?	х	
Are your proposed development and production activities located within 200 kilometers of the Breton Wilderness Area?		х

In calculating CT for addressing the first question in the above tables, express the distance to shore (D) in tenths of a statute mile for distances up to 20 miles and in whole statute miles for distances 20 miles and beyond. Use the nearest point of any land, which is the distance from the facility complex to the mean high water mark of any State, including barrier islands and shoals, to determine the distance to shore.

- (1) If you answer no to all of the above screening questions from the appropriate table, provide:
 - (a) Summary information regarding the peak year emissions for both Plan Emissions and Complex Total Emissions, if applicable. This information is compiled on the summary form of the two sets of worksheets. You can submit either these summary forms or use the format below. You do not need to include the entire set of worksheets.

AIR EMISSION CUMPUTATION FACTORS

Fuel Usage Conversion Factors	Natural Gas T	urbines	Natural Gas E	Engines	Diesel Reci	p. 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 3.2-18 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.								
Equipment/Emission Factors	units	PM	SOx	NOx	VOC	СО	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-1& 3.1-1	10/96
NG 2-cycle lean	gms/hp-hr		0.00185	10.9	0.43	1.5	AP42 3.2-1	10/96
NG 4-cycle lean	gms/hp-hr		0.00185	11.8	0.72	1.6	AP42 3.2-1	10/96
NG 4-cycle rich	gms/hp-hr		0.00185	10	0.14	8.6	AP42 3.2-1	10/96
Diesel Recip. < 600 hp.	gms/hp-hr	1	1.468	14	1.12	3.03	AP42 3.3-1	10/96
Diesel Recip. > 600 hp.	gms/hp-hr	0.32	1.468	11	0.33	2.4	AP42 3.4-1	10/96
Diesel Boiler	lbs/bbl	0.084	2.42	0.84	0.008	0.21	AP42 1.3-12,14	9/98
NG Heaters/Boilers/Burners	lbs/mmscf	7.6	0.593	100	5.5	84	P42 1.4-1, 14-2, & 14	7/98
NG Flares	lbs/mmscf		0.593	71.4	60.3	388.5	AP42 11.5-1	9/91
Liquid Flaring	lbs/bbl	0.42	6.83	2	0.01	0.21	AP42 1.3-1 & 1.3-3	9/98
Tank Vapors	lbs/bbl				0.03		E&P Forum	1/93
Fugitives	lbs/hr/comp.				0.0005		API Study	12/93
Glycol Dehydrator Vent	lbs/mmscf				6.6		La. DEQ	1991
Gas Venting	lbs/scf				0.0034			

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

AIR EMISSION CALCULATIONS - FIRST YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL	I		CONTACT		PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timbalier	51	OCS-G-1240		#30, #A, #B			S. A. Rondeno		(504) 592-6853	#REF!					
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN	TIME		MAXIMUN	POUNDS P	ER HOUR			ES	TIMATED TO	NS	
	Diesel Engines	HP	P 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	1476	71.2908	1710.98	24	30	1.04	4,77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	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	600	28.98	695.52	1	30	1.32	1.94	18.50	1.48	4.00	0.02	0.03	0.28	0.02	0.06
	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	30	1.06	4.85	36.34	1.09	7.93	0.10	0.44	3.27	0.10	0.71
	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	9	1.41	6.47	48.46	1.45	10.57	0.05	0.23	1.74	0.05	0.38
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	17	0.42	1.94	14.54	0.44	3.17	0.09	0.40	2.97	0.09	0.65
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	17	0.85	3.88	29.07	0.87	6.34	0.09	0.40	2.97	0.09	0.65
	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 diese! (Tug)	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)	1200	57.96	1391.04	24	17	0.85	3.88	29.07	0.87	6.34	0.17	0.79	5.93	0.18	1.29
1	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	17	1.27	5.82	43.61	1.31	9.52	0.26	1.19	8.90	0.27	1.94
FACILITY	DERRICK BARGE diesel	ō	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(liftboat)	900	43.47	1043.28	4	12	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
PRODUCTION	RECIP.<600hp diesel Crane	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	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
	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 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 0.00	0.00
	RECIP 4 cycle lean nat gas	0	Ϊ́	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 BURNER nat gas	l o	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	 		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l	TANK-	0	SOFFIC	1 000111	0	0	· -	1	 	0.00			1	, ,	0.00	
	FLARE-		0	1	ŏ	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		ŏ		ŏ	١٥		0.00	0.00	0.00	1 5.55		0.00	5.55	0.00	1 0.00
	FUGITIVES-			0.0	***********	ŏ				0.00			l	}	0.00	
1	GLYCOL STILL VENT-		O		 	9 0		1	1	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		ŏ	Ŏ.		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2004	YEAR TOTAL	1					21.89	96.29	725.51	22.69	158.26	2.76	12.62	94.61	2.85	20.64
EVENDYICH	DISTANCE FROM LAND IN		L	<u> </u>	1		<u> </u>		<u> </u>		l					ļ
EXEMPTION CALCULATION	MILES]										366.30	366.30	366.30	366.30	16816.70
	11.0	<u> </u>							··			<u> </u>	L	L		

AIR EMISSIONS CALCULATIONS - SECOND YEAR

COMPANY	AREA	ВLОСК	LEASE	PLATFORM	WELL	<u> </u>		CONTACT		PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timballer		OCS-G-1240		#30, #A, #B			S. A. Rondeno			#REF!					
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT, FUEL		TIME	MAXIMUM POUNDS PER HOUR						ES	TIMATED TO	NS	
	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	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	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	600	28.98	695.52	1	30	1.32	1.94	18.50	1.48	4.00	0.02	0.03	0.28	0.02	0.06
	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	30	1.06	4.85	36.34	1.09	7.93	0.10	0.44	3.27	0.10	0.71
	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	9 -	1.41	6.47	48.46	1.45	10.57	0.05	0.23	1.74	0.05	0.38
j	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	17	0.42	1.94	14.54	0.44	3.17	0.09	0.40	2.97	0.09	0.65
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	17	0.85	3.88	29.07	0.87	6.34	0.09	0.40	2.97	0.09	0.65
	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)	1200	57.96	1391.04	24	17	0.85	3.88	29.07	0.87	6.34	0.17	0.79	5.93	0.18	1.29
ł	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	17	1.27	5.82	43.61	1.31	9.52	0.26	1.19	8.90	0.27	1.94
FACILITY	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
INSTALLATION	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(liftboat)	900	43.47	1043.28	4.00	12.00	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
PRODUCTION	RECIP.<600hp diesel Crane	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
1	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	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
	TURBINE nat gas	0	0	0.00	0	1 %		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 0.00	0.00
	RECIP 2 cycle lean nat gas	Ö	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00 0.00
	RECIP.4 cycle lean nat gas RECIP.4 cycle rich nat gas	ö	l n	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
ł	BURNER nat gas	ŏ	0.00	0.00	1 6	l ñ	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	 	 	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ļ	TANK-	0			0	0		T		0.00	í		r		0.00	Γ -
	FLARE-		O	1	ŏ	ŏ	S	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		ŏ		ŏ	lŏ	I	1	1	0.00			-:		0.00	1
I	FUGITIVES-			0.0		ŏ		ĺ	l	0.00]		0.00	
1	GLYCOL STILL VENT-		C		0	1 0	ļ ·	ļ	l	0.00			J	j	0.00	J
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
2005	YEAR TOTAL	1					21.89	96.29	725.51	22.69	158.26	2.76	12.62	94.61	2.85	20.64
EVENOTO:	DISTANCE EDOM LAND IN		l	<u> </u>	<u> </u>	<u></u>	l	L	<u> </u>	<u> </u>	L		ļ			
EXEMPTION	DISTANCE FROM LAND IN	1										366.30	366.30	366.30	366.30	40040
CALCULATION	MILES 11.0	1										300.30	300.30	300.30	300.30	16816.70
	11.0												L		<u> </u>	

AIR EMISSIONS CALCULATIONS - THIRD YEAR

Communication Communicatio	COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL	 	I	CONTACT		PHONE	REMARKS					
OPERATIONS COUPMENT RATING MAX FUEL ACT FUEL RUN THE MAXIMUM POUNDS PER NOUR ESTIMATED TONS TIME																	
Diseas Engines HP CALANE CALO C C C C C C C C C					ACT FUEL		TIME			POLINDS P				FS	TIMATED TO	NS	
PRINE MAY MA	OI LIGHTONS					1,014		 	W/O(IIIO)		Littiooit						
Burners								 									
ORILLING PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 1.07 7.80 0.55 2.52 18.88 0.57 4.12 PRIME MOVER-GOODs desided 1476 71,2008 1710,98 24 44 1.04 4.77 35.76 0.07 1.04 4.04 4.00 0.00 0.00 0.00 0.00 0.00						HR/D	DAYS	PM	SOx	NOx	VOC	co	PM	SOx	NOx	voc	CO
PRIME MOVER-BOOKD dissels 1476 71,2006 1710,98 24 44 1.04 4.77 35.78 1.07 7.80 0.55 2.52 18.88 0.57 4.12 71,2006 7170,98 24 44 1.04 4.77 35.78 1.07 7.80 0.55 2.52 18.88 0.57 4.12 71,2006 7170,98 24 44 1.04 4.77 35.78 1.07 7.80 0.55 2.52 18.88 0.57 4.12 71,2006 7170,98 24 44 1.04 4.77 35.78 1.07 7.80 0.55 2.52 18.88 0.57 4.12 71,2006 7170,98 717	DRILLING														18,88		4,12
PRILIE MOVER-GOODs diesed 1476				71,2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88		4.12
PRILE MOVER-POODs dissels 1476 71,2008 717,008 24 44 1,04 4,77 35,76 1,07 7,80 0.55 2,52 18,88 0.57 4,12 1,05 1,0				71.2908	1710.98		44	U	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
SUNNER disard			1476	71.2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
AUXILIARY EQUIP-GOODD diesel (com) 1500 72.45 173.8 0 6 44 1.06 4.85 3.83 1.09 73.8 0 1.48 4.00 0.03 0.04 4.80 0.14 1.05		PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
VESSELS-600thp disesels(umby) 1500 72.45 1738.80 6 44 1.06 4.85 8.34 1.09 7.93 0.14 0.64 4.80 0.14 0.65 0.55 0.65		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
VESSELS-90070p dissel(supply) VESSEL		AUXILIARY EQUIP<600hp diesel	600	28.98	695.52	1	44	1.32		18.50	1.48	4.00	0.03	0.04	0.41	0.03	
VESSELS-960Ph diesel(tugs) VE		VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	44	1.06	4.85	36.34	1.09	7.93	0.14	0.64	4.80	0.14	
PIPELINE NFELINE LAY BARGE dissel 600 28.88 695.52 24 11 0.42 1.94 14.54 0.44 3.17 0.06 0.26 1.92 0.06 0.42 INSTALLATION NFELINE BURY BARGE dissel 0 0 0.00 0		VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	13	1.41	6.47	48.46	1.45	10.57	0.07	0.34	2.52	0.08	0.55
NSTALLATION SUPPORT VESSEL disease 1200 77.96 1391.04 12 11 0.85 3.88 29.07 0.87 6.34 0.06 0.26 1.92 0.06 0.00 0.		VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0,11	0.80
PRODUCTION RECIP-6600th diesel 0			600				11										
SUPPORT VESSEL diseal 0	INSTALLATION		1200	57.96			11										
VESSELS-900thp disesel(crew) 1200 87.96 1391.04 24 11 0.85 3.88 29.07 0.87 6.34 0.11 0.51 3.84 0.12 0.84			-	_													
VESSELS-600hp diesel(dive) 1800 88.94 2086.56 24 11 1.27 5.82 43.61 1.31 9.52 0.17 0.77 5.76 0.17 1.26			_	-		-	_						1				
FACILITY DERRICK BARGE diesel 0 0 0 0.00 0 0 0.00 0.00 0.00 0.00 0.		,			1												
NSTALLATION MATERIAL TUG diesel (10 0 0 0.00 0 0 0 0.00 0.00 0.00 0.00		VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	11	1.27	5.82	43.61	1.31	9.52	0.17	0.77	5.76	0.17	1.26
VESSELS-9600hp diesel(rimbath) 900 43.47 1043.28 4 12 0.63 2.91 21.81 0.85 4.76 0.02 0.07 0.52 0.02 0.11			_	_		-	, ,										
VESSELS-800hp diesel(ilitboart) 900 43.47 1043.28 4 12 0.63 2.91 21.81 0.65 4.76 0.02 0.07 0.52 0.02 0.11	INSTALLATION		_														
PRODUCTION RECIP-<600hp diesel 0 0 0 0.00 0 0 0 0.00 0.00 0.00 0.00				_		-	_			****							
RECIP600hp diesel 0 0 0 0.00 0 0 0 0.00 0.00 0.00 0.00		VESSELS>600hp diesel(liftboat)	900	43.47	1043.28	4	12	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
SUPPORT VESSEL diesel 0	PRODUCTION						_										
TURBINE rat gas 0 0 0 0.00 0.00 0 0 0 0.00 0.00 0.00			1 -				-										
RECIP 2 cycle lean nat gas RECIP 2 cycle lean nat gas RECIP 4 cycle lean nat gas 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0				_		-	_	0.00					0.00		***		
RECIP-4 cycle feat nat gas 0 0 0 0.00 0 0 0 0 0.00 0.00 0.00 0.0			1	1		_	_	Ĭ								i e	
RECIP-4 cycle rich nat ges 0 0 0.00 0.00 0 0 0 0.00 0.00 0.00 0.			:1				1 -	1									
SURNEW SET 388 0 0.00			:1			-	-										
MISC. BPD SCF/HR COUNT TANK- TANK- FLARE- PROCESS VENT- FUGITIVES- GLYCOL STILL VENT- GAS FLARE O O O O O O O O O O O O O O O O O O O		HU IPKIPIP nar nas	ŏ	0.00		Ö	_	0.00					0.00	0.00			
TANK- FLARE- FLARE- PROCESS VENT- FUGITIVES- GLYCOL STILL VENT- O O O O O O O O O O O O O		MISC.	BPD	SCF/HR		1											
PROCESS VENT- FUGITIVES- GLYCOL STILL VENT- DRILLING OIL BURN O O O O O O O O O O O O O O O O O O O			0			0	0		1		0.00					0.00	
FUGITIVES- GLYCOL STILL VENT- 0 0 0 0 0 0 0 0.00 DRILLING OIL BURN O 0 0 0 0 0 0.00 WELL TEST GAS FLARE 0 0 0 0 0 0 0.00 21.89 96.29 725.51 22.69 158.26 3.50 15.97 119.76 3.61 26.13 EXEMPTION DISTANCE FROM LAND IN CALCULATION MILES 366.30 366.30 366.30 366.30 16816.7		FLARE-		0		a -	0	ł	0.00	0.00		0.00		0.00	0.00	0.00	0.00
GLYCOL STILL VENT- O O O O O O O O O O O O O O O O O O O	1			0		0			1								1
DRILLING OIL BURN 0	I				0.0		·		1		1						
WELL TEST GAS FLARE 0 0 0 0.00 <t< td=""><td></td><td></td><td></td><td>0</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				0		· · · · · · · · · · · · · · · · · · ·				1							
2006 YEAR TOTAL 21.89 96.29 725.51 22.69 158.26 3.50 15.97 119.76 3.61 26.13 EXEMPTION DISTANCE FROM LAND IN CALCULATION MILES 366.30 366.30 366.30 366.30 16816.7			0			8	-	0.00		*			0.00				
EXEMPTION DISTANCE FROM LAND IN CALCULATION MILES 366.30 366.30 366.30 366.30 366.30 16816.7	WELL TEST	GAS FLARE		0		0	-		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
CALCULATION MILES 366.30 366.30 366.30 366.30 16816.7	2006	YEAR TOTAL	1					21.89	96.29	725.51	22.69	158.26	3.50	15.97	119.76	3.61	26.13
CALCULATION MILES 366.30 366.30 366.30 366.30 16816.7	EXEMPTION	DISTANCE FROM LAND IN	 	1	1	1	<u> </u>	1	<u> </u>	1	<u> </u>	L					
		MILES											366.30	366.30	366.30	366.30	16816.70
		11.0	1														L

AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
Chevron U.S.A.	South Timbalier	51	OCS-G-1240		#30, #A, #B
Year		Emitted		Substance	
	PM	SOx	NOx	VOC	co
2004	2.76	12.62	94.61	2.85	20.64
2005	2.76	12.62	94.61	2.85	20.64
2006	3.50	15.97	119.76	3.61	26.13
2007	3.50	15.97	119.76	3.61	26.13
2008	3.50	15.97	119.76	3.61	26.13
2009	3.50	15.97	119.76	3.61	26.13
2010	3.50	15.97	119.76	3.61	26.13
Allowable	366.30	366.30	366.30	366.30	16816.70

AIR EMISSIONS REPORT SUPPLEMENTAL DOCD SOUTH TIMBALIER BLOCK 51 LEASE OCS-G-1240

PROJECTED EMISSIONS

CHEVRON U.S.A. INC. S. A. RONDENO Date: MARCH 2004

AIR EMISSION CUMPUTATION FACTORS

Fuel Usage Conversion Factors	Natural Gas 1	urbines	Natural Gas	Engines	Diesel Reci	p. 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	СО	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-1& 3.1-1	10/96
NG 2-cycle lean	gms/hp-hr		0.00185	10.9	0.43	1.5	AP42 3.2-1	10/96
NG 4-cycle lean	gms/hp-hr		0.00185	11.8	0.72	1.6	AP42 3.2-1	10/96
NG 4-cycle rich	gms/hp-hr		0.00185	10	0.14	8.6	AP42 3.2-1	10/96
Diesel Recip. < 600 hp.	gms/hp-hr	1	1.468	14	1.12	3.03	AP42 3.3-1	10/96
Diesel Recip. > 600 hp.	gms/hp-hr	0.32	1.468	11	0.33	2.4	AP42 3.4-1	10/96
Diesel Boiler	lbs/bbl	0.084	2.42	0.84	0.008	0.21	AP42 1.3-12,14	9/98
NG Heaters/Boilers/Burners	lbs/mmscf	7.6	0.593	100	5.5	84	P42 1.4-1, 14-2, & 14	7/98
NG Flares	lbs/mmscf		0.593	71.4	60.3	388.5	AP42 11.5-1	9/91
Liquid Flaring	lbs/bbl	0.42	6.83	2	0.01	0.21	AP42 1.3-1 & 1.3-3	9/98
Tank Vapors	ibs/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

AIR EMISSION CALCULATIONS - FIRST YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL			CONTACT		PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timballer	51	OCS-G-1240		#30, #A, #B			S. A. Rondeno		(504) 592-6853	#REF!					
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN	TIME		MAXIMU	A POUNDS P	ER HOUR			ES	TIMATED TO	NS	
	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	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
i	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
ł	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	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	600	28.98	695.52	1	30	1.32	1.94	18.50	1.48	4.00	0.02	0.03	0.28	0.02	0.06
	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	30	1.06	4.85	36.34	1.09	7.93	0.10	0.44	3.27	0.10	0.71
	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	9	1.41	6.47	48.46	1.45	10.57	0.05	0.23	1.74	0.05	0.38
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
		L								L						
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	17	0.42	1.94	14.54	0.44	3.17	0.09	0.40	2.97	0.09	0.65
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	17	0.85	3.88	29.07	0.87	6.34	0.09	0.40	2.97	0.09	0.65
	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 (Tug)	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)	1200	57.96	1391.04	24	17	0.85	3.88	29.07	0.87	6.34	0.17	0.79	5.93	0.18	1.29
	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	17	1.27	5.82	43.61	1.31	9.52	0.26	1.19	8.90	0.27	1.94
FACILITY	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
INSTALLATION	MATERIAL TUG diesel	١٥	lõ	0.00	lō	Ö	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INGIALLATION	VESSELS>600hp diesel(crew)	lŏ	Ĭ	0.00	l ŏ l	ŏ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS>600hp diesel(liftboat)	900	43.47	1043.28	4	12	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
PRODUCTION	RECIP.<600hp diesel Crane	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
Ĭ	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	2000	96.6	2318.40	6	35	1.41	6.47	48.46	1.45	10.57	0.15	0.68	5.09	0.15	1.11
	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 0.00	0.00
	RECIP 2 cycle lean nat gas	0	. •	0.00				0.00			0.00		0.00 0.00	0.00 0.00	0.00	0.00 0.00
1	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		
	RECIP 4 cycle rich nat gas	ŏ	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	0.00 0.00
	EURNER pat das MISC.	BPD	SCF/HR	COUNT			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	TANK-	0	SCF/IIK	COON	0	0				0.00	T				0.00	
	FLARE-		0	1	Ö	Ö		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		ŏ		ŏ	ő		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	FUGITIVES-			1000.0	1	102				0.50	į				0.61	
1	IGLYCOL STILL VENT-		0		0	0			1	0.00	ľ				0.00	
DRILLING	OIL BURN	0			ŏ	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		ŏ	ŏ	0.00	0.00	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
		Ţ														
2004	YEAR TOTAL	-	1				23.30	102.76	773.96	24.64	168.83	2.91	13.30	99.70	3.62	21.75
EXEMPTION	DISTANCE FROM LAND IN							•	I	<u> </u>						
CALCULATION	MILES	1										366.30	366.30	366.30	366.30	16816.70
	11.0	<u> </u>										L		i		1

AIR EMISSIONS CALCULATIONS - SECOND YEAR

DRILLING PRIM PRIM PRIM PRIM PRIM PRIM PRIM BURN AUXII VESS VESS VESS VESS VESS VESS VESS VE	AREA th Timballer EQUIPMENT Diesel Engines Nat. Gas. Engines Burners IME MOVER>600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(tugs) PELINE LAY BARGE diesel PPORT VESSEL diesel	RATING HP HP HP H7 1476 1476 1476 1476 0 600 1500 2000 12600	CEASE OCS-G-1240 MAX. FUEL GAL/HR SCF/HR 71.2908 71.2908 71.2908 71.2908 71.2908 72.45 96.6 608.58	GAL/D SCF/D SCF/D 1710.98 1710.98 1710.98 1710.98 1710.98	WELL #30, #A, #B RUN HR/D 24 24 24 24 24 24 24	DAYS 30 30 30 30 30 30 30	PM 1.04 1.04 1.04	SOX 4.77 4.77	NOx 35.76 35.76	VOC 1.07 1.07	CO 7.80 7.80	PM 0.37 0.37	SOx 1.72 1.72	NOx 12.87 12.87	VOC 0.39 0.39	CO 2.81
DRILLING PRIM PRIM PRIM PRIM PRIM PRIM PRIM BURN AUXII VESS VESS VESS VESS VESS VESS VESS VE	EQUIPMENT Diesel Engines Nat. Gas. Engines Burners IME MOVER>600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs)	RATING HP HP HP H7 1476 1476 1476 1476 0 600 1500 2000 12600	MAX. FUEL GAL/HR SCF/HR SCF/HR 71.2908 71.2908 71.2908 71.2908 71.2908 72.45 96.6	GAL/D SCF/D SCF/D 1710.98 1710.98 1710.98 1710.98 1710.98	RUN HR/D 24 24 24 24 24 24 0	DAYS 30 30 30 30 30	PM 1.04 1.04 1.04	SOx 4.77 4.77	NOx 35.76 35.76	VOC 1.07 1.07	CO 7.80 7.80	0.37 0.37	SOx 1.72 1.72	NOx 12.87	VOC 0.39	2.81
DRILLING PRIM PRIM PRIM PRIM BURN AUXII VESS VESS VESS INSTALLATION SUPP PIPEL SUPP VESS	Diesel Engines Nat. Gas Engines Burnets Burnets IME MOVER>600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs)	HP HP HP 1476 1476 1476 1476 0 600 1500 2000 12600	GAL/HR SCF/HR SCF/HR 71.2908 71.2908 71.2908 71.2908 71.2908 72.45 96.6	GAL/D SCF/D SCF/D 1710.98 1710.98 1710.98 1710.98 1710.98	HR/D 24 24 24 24 24 24 0	DAYS 30 30 30 30 30	1.04 1.04 1.04	SOx 4.77 4.77	NOx 35.76 35.76	VOC 1.07 1.07	7.80 7.80	0.37 0.37	SOx 1.72 1.72	NOx 12.87	VOC 0.39	2.81
PRIM PRIM PRIM PRIM PRIM BURN AUXII VESS VESS VESS INSTALLATION SUPP PIPEL SUPP VESS	Nat. Gas. Engines Burners IME MOVER>600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs)	MMBTU/HR 1476 1476 1476 1476 1476 0 600 1500 2000 12600	SCF/HR 71.2908 71.2908 71.2908 71.2908 71.2908 71.2908 28.98 72.45 96.6	SCF/D 1710.98 1710.98 1710.98 1710.98 1710.98 1710.98 695.52 1738.80	24 24 24 24 24 0	30 30 30 30	1.04 1.04 1.04	4.77 4.77	35.76 35.76	1.07 1.07	7.80 7.80	0.37 0.37	1.72 1.72	12.87	0.39	2.81
PRIM PRIM PRIM PRIM PRIM BURN AUXII VESS VESS VESS INSTALLATION SUPP PIPEL SUPP VESS	IME MOVER>600hp diesel RNER diesel XILIARY EQUIP<600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs)	1476 1476 1476 1476 1476 0 600 1500 2000 12600	71.2908 71.2908 71.2908 71.2908 71.2908 71.2908 28.98 72.45 96.6	1710.98 1710.98 1710.98 1710.98 1710.98 1710.98 695.52 1738.80	24 24 24 24 24 0	30 30 30 30	1.04 1.04 1.04	4.77 4.77	35.76 35.76	1.07 1.07	7.80 7.80	0.37 0.37	1.72 1.72	12.87	0.39	2.81
PRIM PRIM PRIM PRIM PRIM BURN AUXII VESS VESS VESS INSTALLATION SUPP PIPEL SUPP VESS	IME MOVER>600hp diesel IME MOVER>600hp diesel IME MOVER>600hp diesel IME MOVER>600hp diesel RNER diesel XILIARY EQUIP<600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(supply) PELINE LAY BARGE diesel	1476 1476 1476 1476 0 600 1500 2000 12600	71.2908 71.2908 71.2908 71.2908 71.2908 28.98 72.45 96.6	1710.98 1710.98 1710.98 1710.98 1710.98 695.52 1738.80	24 24 24 24 20	30 30 30	1.04 1.04	4.77	35.76	1.07	7.80	0.37	1.72			
PRIM PRIM PRIM BURN AUXII VESS VESS VESS INSTALLATION SUPP PIPEL SUPP VESS	IME MOVER>600hp diesel XILIARY EQUIP<600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs) PELINE LAY BARGE diesel	1476 1476 1476 0 600 1500 2000 12600	71.2908 71.2908 71.2908 28.98 72.45 96.6	1710.98 1710.98 1710.98 695.52 1738.80	24 24 24 0	30 30	1.04							12.87	0.39	1 004
PRIM PRIM PRIM BURN AUXII VESS VESS VESS PIPELINE PIPEL INSTALLATION SUPP PIPEL SUPF VESS	IME MOVER>600hp diesel IME MOVER>600hp diesel IME MOVER>600hp diesel RNER diesel XILIARY EQUIP<600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs) PELINE LAY BARGE diesel	1476 1476 0 600 1500 2000 12600	71.2908 71.2908 28.98 72.45 96.6	1710.98 1710.98 695.52 1738.80	24 24 0	30		4.77	05.70	4.07						2.81
PRIM BURN AUXII VESS VESS VESS INSTALLATION SUPP PIPEL SUPP VESS	IME MOVER>600hp diesel RNER diesel XILIARY EQUIP<600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs) PELINE LAY BARGE diesel	1476 0 600 1500 2000 12600	71.2908 28.98 72.45 96.6	1710.98 695.52 1738.80	24 0		1.04		35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
BURN AUXII VESS VESS VESS PIPELINE PIPEL INSTALLATION SUPP PIPEL SUPP VESS	RNER diesel XILIARY EQUIP<600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs) PELINE LAY BARGE diesel	0 600 1500 2000 12600	28.98 72.45 96.6	695,52 1738,80	0	30		4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
AUXII VESS VESS VESS PIPELINE PIPEL INSTALLATION SUPP PIPEL SUPP VESS	XILIARY EQUIP<600hp diesel SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs)	600 1500 2000 12600	72.45 96.6	1738.80			1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
VESS VESS VESS PIPELINE PIPEL INSTALLATION SUPP PIPEL SUPP VESS	SSELS>600hp diesel(crew) SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs) PELINE LAY BARGE diesel	1500 2000 12600	72.45 96.6	1738.80		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VESS VESS PIPELINE PIPEL INSTALLATION SUPP PIPEL SUPF VESS	SSELS>600hp diesel(supply) SSELS>600hp diesel(tugs) PELINE LAY BARGE diesel	2000 12600	96.6		1 1	30	1.32	1.94	18.50	1.48	4.00	0.02	0.03	0.28	0.02	0.06
PIPELINE PIPEL INSTALLATION SUPP PIPEL SUPF VESS	SSELS>600hp diesel(tugs) ** PELINE LAY BARGE diesel	12600			6	30	1.06	4.85	36.34	1.09	7.93	0.10	0.44	3.27	0.10	0.71
PIPELINE PIPEL INSTALLATION SUPF PIPEL SUPF VESS	PELINE LAY BARGE diesel		608.58	2318.40	8	9	1.41	6.47	48.46	1.45	10.57	0.05	0.23	1.74	0.05	0.38
INSTALLATION SUPP PIPEL SUPP VESS			l	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
PIPEL SUPF VESS	PPORT VESSEL diesel	600	28.98	695,52	24	17	0.42	1.94	14.54	0.44	3.17	0.09	0.40	2.97	0.09	0.65
SUPF VESS		1200	57.96	1391.04	12	17	0.85	3.88	29.07	0.87	6.34	0.09	0.40	2.97	0.09	0.65
VESS	PELINE 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
	PPORT 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
	SSELS>600hp diesel(crew)	1200	57.96	1391.04	24 24	17 17	0.85	3.88 5.82	29.07	0.87	6.34 9.52	0.17	0.79	5.93	0.18	1.29
VESS	SSELS>600hp diesel(dive)	1800	86.94	2086.56	24	17	1.27	5.82	43.61	1.31	9.52	0.26	1.19	8.90	0.27	1.94
FACILITY DERF	RRICK 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
INSTALLATION MATE	TERIAL 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
VESS	SSELS>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
VESS	SSELS>600hp diesel(liftboat)	900	43.47	1043.28	4.00	12.00	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
	CIP.<600hp diesel Crane	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
	CIP.>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
	PPORT VESSEL diesel	2000	96.6	2318.40	6	52	1.41	6.47	48.46	1.45	10.57	0.22	1.01	7.56	0.23	1.65
	RBINE nat gas	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
	CIP 2 cycle lean nat gas	0	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	0.00 0.00	0.00 0.00
	CIP.4 cycle lean nat gas CIP.4 cycle rich nat gas	l i	%	0.00	Ö	0	i	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
900	RNER mai mas	ŏ	0.00	0.00	l ŏ	ŏ	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	 		5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TANK		0	3017111		0	0		I	1	0.00			· 1		0.00	r
FLAR			0	1	ŏ	ŏ		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	OCESS VENT-		Ö		Ō	Ō	ŀ			0.00					0.00	1
	GITIVES-			1000.0		163	•			0.50				. 1	0.98	l .
GLY	YCOL STILL VENT-		0		0	0	l			0.00	L			<u></u>	0.00	t
D	L 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	AS FLARE		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2005 YEAF	AR TOTAL	j					23.30	102.76	773.96	24.64	168.83	2.98	13.63	102.17	4.06	22.29
EXEMPTION DI	DISTANCE FROM LAND IN	-	1	<u> </u>	L		L									
CALCULATION	MILES	j									1	366.30	366.30	366.30	366.30	16816.70
	11.0		_													

AIR EMISSIONS CALCULATIONS - THIRD YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		<u> </u>	CONTACT	****	PHONE	REMARKS				· · · · · · · · · · · · · · · · · · ·	
	South Timballer	51	OCS-G-1240		#30, #A, #B			S. A. Rondeno		(504) 592-6853		-				
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL		TIME			POUNDS P				ES	TIMATED TO	NS	
-	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	СО	PM	SOx	NOx	VOC	CO
DRILLING	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
1	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
l .	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	44	1.04	4.77	35.76	1.07	7.80	0.55	2.52	18.88	0.57	4.12
	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	600	28.98	695.52	1	44	1.32	1.94	18.50	1.48	4.00	0.03	0.04	0.41	0.03	0.09
	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	44	1.06	4.85	36.34	1.09	7.93	0.14	0.64	4.80	0.14	1.05
	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	13	1.41	6.47	48.46	1.45	10.57	0.07	0.34	2.52	0.08	0.55
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	11	0.42	1.94	14.54	0.44	3.17	0.06	0.26	1.92	0.06	0.42
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	11	0.85	3.88	29.07	0.87	6.34	0.06	0.26	1.92	0.06	0.42
	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)	1200	57.96	1391.04	24	11	0.85	3.88	29.07	0.87	6.34	0.11	0.51	3.84	0.12	0.84
	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	11	1.27	5.82	43.61	1.31	9.52	0.17	0.77	5.76	0.17	1.26
FACILITY	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
INSTALLATION	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(liftboat)	900	43.47	1043.28	4	12	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
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	2000	96.6	2318.40	6	49	1.41	6.47	48.46	1.45	10.57	0.21	0.95	7.12	0.21	1.55
	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	1	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	0.00 0.00	0.00 0.00	0.00 0.00
	RECIP 4 cycle rich nat gas	Ü	0.00	0.00	1 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	 	 	0.00	0.00	0.00	1 0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TANK-	0	JOFFIN	1 00011	0	0		r	I	0.00				***************************************	0.00	· · · · · · · · · · · · · · · · · · ·
	FLARE-	000000000000000000000000000000000000000	0	1	ŏ	١٥		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		ŏ		ŏ	Ιŏ	1	1		0.00					0.00	
l	FUGITIVES-			1000.0		147	ŧ			0.50					0.88	
	GLYCOL STILL VENT-		0		0	1 0	<u> </u>			0.00	L				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
2006	YEAR TOTAL	1					23.30	102.76	773.96	24.64	168.83	3.71	16.92	126.88	4.71	27.68
EVENDTION	DISTANCE FROM LAND IN	 	<u> </u>	<u></u>	1	<u> </u>	l	<u> </u>	<u> </u>	<u> </u>	L					
EXEMPTION	MILES											366.30	366.30	366.30	366.30	16816,70
CALCULATION	11.0	4											000.00	555.55	300.30	10010.70
	11.0	1						***					· -			

AIR EMISSIONS CALCULATIONS - FOURTH YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		T	CONTACT		PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timbalier	51	OCS-G-1240		#30, #A, #B		1	S. A. Rondeno		(504) 592-6853		*				
OPERATIONS	EQUIPMENT		MAX. FUEL	ACT FUEL		TIME	H.		I POUNDS P			II	ES	TIMATED TO	NS	
	Diesel Engines	HP	GAL/HR	GAL/D		711111		WATER	00.11501	LICTIONIC	***	 		THINK TED TO	,,,,	
	Nat. Gas Engines	HP	SCF/HR	SCF/D								f				
		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	٥	Ò	0.00	Ö	Ò	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER>600hp diesel	lŏ	lň	0.00	ŏ	ŏ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER>600hp diesel	ا م	ŏ	0.00	ŏ	١٥	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ī	BURNER diesel	ő			ŏ	ľ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	AUXILIARY EQUIP<600hp diesel	ا آ	0	0.00	ő	ľŏ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS>600hp diesel(crew)	ŏ	ő	0.00	ő	Ŏ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	VESSELS>600hp diesel(supply)	Ĭŏ	ŏ	0.00	ő	ō	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS>600hp diesel(tugs)	۱۸	ň	0.00	ŏ	ŏ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	- 200220 Good Gago)	ľ		1 0.00	ľ	ľ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE	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
INSTALLATION	SUPPORT VESSEL diesel	ō	ō	0.00	o	o	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PIPELINE BURY BARGE diesel	Ĭ	lõ	0.00	n	Ö	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SUPPORT VESSEL diesel	l ŏ	Ó	0.00	0	Ō	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS>600hp diesel(crew)	ŏ	o	0.00	ō	Ō	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS>600hp diesel(supply)	Ō	o	0.00	0	Ö	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
					1	1	i							****	•.••	5.55
FACILITY	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
INSTALLATION	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)	l o	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
		L					ļ			1				<u> </u>		
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
Ĭ	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	2000	96.6	2318.40	6	104	1.41	6.47	48.46	1.45	10.57	0.44	2.02	15.12	0.45	3.30
	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	Į.	0.00	0.00	0.00	0.00	l	0.00	0.00	0.00	0.00
	RECIP.4 cycle lean nat gas	0	0	0.00	0	0	į.	0.00	0.00	0.00	0.00	Ħ	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	l	0.00	0.00	0.00	0.00
1	BURNER not 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	ļ.		l	0.00		i			0.00	
	FLARE-		0		0	0	K	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		0		0	0	ı			0.00					0.00	
	FUGITIVES-			1000.0		365	H		1	0.50		ł			2.19	1
OBILLING	GLYCOL STILL VENT-		0		0	0		0.00		0.00	0.00		0.00		0.00	
DRILLING	OIL BURN	(C			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		<u> </u>	<u>-</u>	₿ 	0.00	0.00	0.00	0.00	}	0.00	0.00	0.00	0.00
2007	YEAR TOTAL	ł		l	1		1.41	6.47	48,46	1.95	10.57	0.44	2.02	15.12	2.4	
2007	ILAN IOIAL	1					l '.~'	"."'	40.40	1.85	10.57	0.44	2.02	15.12	2.64	3.30
EXEMPTION	DISTANCE FROM LAND IN			<u> </u>	L	·	U		L	<u> </u>						
CALCULATION	MILES											366.30	366.30	366.30	366.30	16816.70
-ALGOLA HON	11.0	1										1	000.00	300.50	300.30	.0010.70
	<u> </u>															

AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
Chevron U.S.A.	South Timbalier	51	OCS-G-1240		#30, #A, #B
Year		Emitted		Substance	
	PM	SOx	NOx	VOC	CO
2004	2.91	13.30	99.70	3.62	21.75
2005	2.98	13.63	102.17	4.06	22.29
2006	3.71	16.92	126.88	4.71	27.68
2007	0.44	2.02	15.12	2.64	3.30
2008	0.44	2.02	15.12	2.64	3.30
2009	0.44	2.02	15.12	2.64	3.30
2010	0.44	2.02	15.12	2.64	3.30
Allowable	366.30	366.30	366.30	366.30	16816.70

AIR EMISSIONS REPORT SUPPLEMENTAL DOCD SOUTH TIMBALIER BLOCK 52 LEASE OCS-G-1241

PLAN EMISSIONS

CHEVRON U.S.A. INC. S. A. RONDENO Date: MARCH 2004

AIR EMISSION CUMPUTATION FACTORS

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

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

AIR EMISSION CALCULATIONS - FIRST YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL			CONTACT		PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timbalier	52	OCS-G-1241		#C, #D			S. A. Rondeno		(504) 592-6853	#REF!	-				
OPERATIONS	EQUIPMENT		MAX. FUEL		RUN	TIME		MAXIMUN	POUNDS P	ER HOUR			ES	TIMATED TO	NS	
	Diesel Engines	HP	GAL/HR	GAL/D												
	Nat. Gas Engines	HP	SCF/HR_	SCF/D	<u> </u>										-	
		MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS	PM	SOx_	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
DRILLING	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0,58	4.21
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	BURNER diesel	0		205.50	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	600	28.98	695.52	1 6	45	1.32	1.94	18.50	1.48	4.00	0.03	0.04	0.42	0.03	0.09
	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	8	45	1.06	4.85	36.34	1.09	7.93	0.14	0.65	4.91	0.15	1.07
	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	12	14 2	1.41 8.88	6.47	48.46	1.45 9.16	10.57 66.61	0.08	0.36	2.71 3.66	0.08	0.59
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12		0.00	40.74	305.29	9.16	00.01	0.11	0.49	3.00	0.11	0.80
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	15	0.42	1.94	14.54	0.44	3.17	0.08	0.35	2.62	0.08	0.57
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	15	0.85	3.88	29.07	0.87	6.34	0.08	0.35	2.62	0.08	0.57
	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 (Tug)	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)	1200	57.96	1391.04	24	15	0.85	3.88	29.07	0.87	6.34	0.15	0.70	5.23	0.16	1.14
	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	15	1.27	5.82	43.61	1.31	9.52	0.23	1.05	7.85	0.24	1.71
FACILITY	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
INSTALLATION	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(liftboat)	900	43.47	1043.28	4	12	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
PRODUCTION	RECIP.<600hp diesel Crane	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	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
	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
ľ	BLIFFRER net pas	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 0	SCF/HR	COUNT	0	0	,		r	0.00				T	0.00	r
	I ANK- FLARE-	B0000000000000000000000000000000000000	0		0	0	·	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00
	PROCESS VENT-		n		Ö	Ö] 0.00	0.00	0.00	0.00		0.00	0.00	0.00	I 0.00
	FUGITIVES-			0.0		0		1	ļ	0.00	1			l	0.00	
	IGLYCOL STILL VENT-		0	0.0	0	Ö			l	0.00					0.00	
DRILLING	OIL BURN	0			ō	Ö	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
2007	YEAR TOTAL	1		1			21.89	96.29	725,51	22.69	158.26	3.72	16.95	127.10	3.83	27.73
2007		İ				<u> </u>										
EXEMPTION	DISTANCE FROM LAND IN											455.05	400.00	400.00	400.05	
CALCULATION	MILES	4										466.20	466.20	466.20	466.20	19749.87
	14.0	1											L	L		L

AIR EMISSIONS CALCULATIONS - SECOND YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		T	CONTACT		PHONE	REMARKS					
Chevron U.S.A, Inc.	South Timballer	52	OCS-G-1241		#C. #D			S. A. Rondeno	-	(504) 592-6853	#REF!					
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT, FUEL	RUN	TIME		MAXIMUM	POUNDS P	ER HOUR			EST	IMATED TO	NS	
	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	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
1	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	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	600	28.98	695.52	1	30	1.32	1.94	18.50	1.48	4.00	0.02	0.03	0.28	0.02	0.06
}	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	30	1.06	4.85	36.34	1.09	7.93	0.10	0.44	3.27	0.10	0.71
1	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	9	1.41	6.47	48.46	1.45	10.57	0.05	0.23	1.74	0.05	0.38
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
										<u> </u>						
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	6	0.42	1.94	14.54	0.44	3.17	0.03	0.14	1.05	0.03	0.23
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	6	0.85	3.88	29.07	0.87	6.34	0.03	0.14	1.05	0.03	0.23
	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)	1200	57.96	1391.04	24	6	0.85	3.88	29.07	0.87	6.34	0.06	0.28	2.09	0.06	0.46
	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	6	1.27	5.82	43.61	1.31	9.52	0.09	0.42	3.14	0.09	0.69
FACILITY	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
INSTALLATION	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(liftboat)	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 Crane	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	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
	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
1	SURNER rail 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												
Į.	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
I	PROCESS VENT-		0		0	0	I			0.00					0.00	
	FUGITIVES-			0.0		0	l			0.00					0.00	
	GLYCOL STILL VENT-	·	0		0	0	0.00	1 000		0.00	- 0.00	0.00	0.00	0.00	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	0.00 0.00	0.00	0.00
WELL TEST	GAS FLARE		0		U	- · · · · ·	<u> </u>	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2008	YEAR TOTAL	1					21.25	93.38	703.70	22.04	153,50	2.36	10.76	80.66	2.43	17.60
	DIOTANOS FROM LAND IN	<u> </u>		<u> </u>	L	L	l	L	l	<u> </u>	<u> </u>	ļ				
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											466.20	466.20	466,20	466,20	19749,87
CALCULATION	14.0	1										400,20	700.20	700.20	700.20	10.07
L	1 14.0	<u> </u>			•		-									

AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
Chevron U.S.A.	South Timbalier	52	OCS-G-1241		#C, #D
Year		Emitted		Substance	
	PM	SOx	NOx	VOC	СО
2007	3.72	16.95	127.10	3.83	27.73
2008	2.36	10.76	80.66	2.43	17.60
Allowable	466.20	466.20	466.20	466.20	19749.87

AIR EMISSIONS REPORT SUPPLEMENTAL DOCD SOUTH TIMBALIER BLOCK 52 LEASE OCS-G-1241

PROJECTED EMISSIONS

CHEVRON U.S.A. INC. S. A. RONDENO Date: MARCH 2004

AIR EMISSION CUMPUTATION FACTORS

Fuel Usage Conversion Factors	Natural Gas 1	urbines	Natural Gas E	ngines	Diesel Reci	ip. 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	СО	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-1& 3.1-1	10/96
NG 2-cycle lean	gms/hp-hr		0.00185	10.9	0.43	1.5	AP42 3.2-1	10/96
NG 4-cycle lean	gms/hp-hr		0.00185	11.8	0.72	1.6	AP42 3.2-1	10/96
NG 4-cycle rich	gms/hp-hr	• • • • • • • • • • • • • • • • • • • •	0.00185	10	0.14	8.6	AP42 3.2-1	10/96
Diesel Recip. < 600 hp.	gms/hp-hr	1	1.468	14	1.12	3.03	AP42 3.3-1	10/96
Diesel Recip. > 600 hp.	gms/hp-hr	0.32	1.468	11	0.33	2.4	AP42 3.4-1	10/96
Diesel Boiler	lbs/bbl	0.084	2.42	0.84	0.008	0.21	AP42 1.3-12,14	9/98
NG Heaters/Boilers/Burners	lbs/mmscf	7.6	0.593	100	5.5	84	P42 1.4-1, 14-2, & 14	7/98
NG Flares	lbs/mmscf		0.593	71.4	60.3	388.5	AP42 11.5-1	9/91
Liquid Flaring	lbs/bbi	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

AIR EMISSION CALCULATIONS - FIRST YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL	·		CONTACT		PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timbalier	52	OCS-G-1241		#C, #D	 		S. A. Rondeno		(504) 592-6853	Water Control					
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL		TIME			A POUNDS P			1	ES	TIMATED TO	NS	
	Diesel Engines	HP	GAL/HR	GAL/D	1			110 0 (111) 0 1		<u> </u>		D		TIMATED TO	7110	
	Nat. Gas Engines	HP	SCF/HR	SCF/D	 											
		MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS	PM	SOx	NOx	Voc	co	PM	SOx	NOx	Voc	CO
DRILLING	PRIME MOVER>600hp diesel	1476	71,2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0,56	2.58	19.31	0.58	4.21
	PRIME MOVER>600hp diesel	1476	71,2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	PRIME MOVER>600hp diesel	1476	71,2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	PRIME MOVER>600hp diesel	1476	71,2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	45	1.04	4.77	35.76	1.07	7.80	0.56	2.58	19.31	0.58	4.21
	BURNER diesel	0		***************************************	ō	l ö l	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	AUXILIARY EQUIP<600hp diesel	600	28.98	695.52	1 i	45	1.32	1.94	18.50	1.48	4.00	0.03	0.04	0.42	0.03	0.09
	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	45	1.06	4.85	36.34	1.09	7.93	0.00	0.65	4.91	0.15	1.07
	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	14	1.41	6.47	48.46	1.45	10.57	0.08	0.36	2.71	0.08	0.59
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
	vaccate coomp alcookings,				.~	1 ~	0.50	'' '	000.20	5.15	33.51	ŭ.,,	0.40	0.00	0.11	0.00
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	15	0.42	1.94	14.54	0.44	3.17	0.08	0.35	2.62	0.08	0.57
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	15	0.85	3.88	29.07	0.87	6.34	0.08	0.35	2.62	0.08	0.57
	PIPELINE BURY BARGE diesel	0	0	0.00	ō	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SUPPORT VESSEL diesel (Tug)	l o	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)	1200	57.96	1391.04	24	15	0.85	3.88	29.07	0.87	6.34	0.15	0.70	5.23	0.16	1.14
	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	15	1.27	5.82	43.61	1.31	9.52	0.23	1.05	7.85	0.24	1.71
	,			1								- 1		1,100		
FACILITY	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
INSTALLATION	MATERIAL TUG diesel	0	0	0.00	0	1 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(liftboat)	900	43.47	1043.28	4	12	0.63	2.91	21.81	0.65	4.76	0.02	0.07	0.52	0.02	0.11
			l													
PRODUCTION	RECIP.<600hp diesel Crane	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	2000	96.6	2318.40	6	92	1.41	6.47	48.46	1.45	10.57	0.39	1.78	13.37	0.40	2.92
	TURBINE nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00	l	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 A cycle lean nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00	1	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	l	0.00	0.00	0.00	0.00
	BURNER nations	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			ļ	,	·	·						
	TANK-	0	,		0	0	•		l	0.00			l		0.00	1
1	FLARE-		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
i	PROCESS VENT-		0		0	0			1	0.00			l	l	0.00	
1	FUGITIVES-			1000.0	,	321			1	0.50			1	1	1.93	
<u></u>	GLYCOL STILL VENT-		0		0	0			 	0.00	0.00	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
2007	YEAR TOTAL	1					23.30	102.76	773.96	24.64	168.83	4.10	18.73	140.47	646	20.55
2007	TEAR TOTAL	1	ŀ				23.30	''2.73	''3.30	23.03	100.03	7.10	10./3	140.47	6.16	30.65
EXEMPTION	DISTANCE FROM LAND IN	l	·	·			Ч	l	I	I				 		
CALCULATION	MILES											466.20	466.20	466,20	466.20	19749.87
CALCULATION	14.0	1										700.20	700.20	400.20	400.20	19/49.8/
	1-7.0											E			l	

AIR EMISSIONS CALCULATIONS - SECOND YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL.		· ·	CONTACT	- 	PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timbalier	52	OCS-G-1241		#C, #D			S. A. Rondeno		(504) 592-6853	#REF!					
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN	TIME		MAXIMUN	1 POUNDS P	ER HOUR			ES'	TIMATED TO	NS	
	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	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
1	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	PRIME MOVER>600hp diesel	1476	71.2908	1710.98	24	30	1.04	4.77	35.76	1.07	7.80	0.37	1.72	12.87	0.39	2.81
	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	600	28.98	695.52	1	30	1.32	1.94	18.50	1.48	4.00	0.02	0.03	0.28	0.02	0.06
	VESSELS>600hp diesel(crew)	1500	72.45	1738.80	6	30	1.06	4.85	36.34	1.09	7.93	0.10	0.44	3.27	0.10	0.71
	VESSELS>600hp diesel(supply)	2000	96.6	2318.40	8	9	1.41	6.47	48.46	1.45	10.57	0.05	0.23	1.74	0.05	0.38
	VESSELS>600hp diesel(tugs)	12600	608.58	14605.92	12	2	8.88	40.74	305.29	9.16	66.61	0.11	0.49	3.66	0.11	0.80
PIPELINE	PIPELINE LAY BARGE diesel	600	28.98	695.52	24	6	0.42	1.94	14.54	0.44	3.17	0.03	0.14	1.05	0.03	0.23
INSTALLATION	SUPPORT VESSEL diesel	1200	57.96	1391.04	12	6	0.85	3.88	29.07	0.87	6.34	0.03	0.14	1.05	0.03	0.23
	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)	1200	57.96	1391.04	24	6	0.85	3.88	29.07	0.87	6.34	0.06	0.28	2.09	0.06	0.46
	VESSELS>600hp diesel(dive)	1800	86.94	2086.56	24	6	1.27	5.82	43.61	1.31	9.52	0.09	0.42	3:14	0.09	0.69
FACILITY	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
INSTALLATION	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(liftboat)	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 Crane	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
1	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	2000	96.6 0	2318.40 0.00	6	96 0	1.41	6.47 0.00	48.46 0.00	1.45 0.00	10.57 0.00	0.41	1.86	13.96	0.42	3.04
	TURBINE nat gas	١	Ň	0.00	ő	٥	1	0.00	0.00	0.00	0.00		0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	RECIP.2 cycle lean nat gas RECIP.4 cycle lean nat gas	l ö	l n	0.00	0	Ö		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	RECIPA cycle fich nat gas	l ő	Ň	0.00	ő	ŏ		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	BURNER pat gas	ŏ	0.00	0.00	0	l ŏ	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	Ť	- J	0.00	. 0.00	0.00	<u> </u>	0.00	<u> </u>	0.00	0.00	0.00	0.00
	TANK-	0			0	0		I	i .	0.00					0.00	T
	FLARE-		0	1	ŏ	ŏ	l	0.00	0.00	0.00	0.00	ł	0.00	0.00	0.00	0.00
l .	PROCESS VENT-		ŏ		ō	Ŏ			1	0.00				3.33	0.00	-:
	FUGITIVES-			1000.0		336			1	0.50					2.02	l
	GLYCOL STILL VENT-		0		0	0]	l	0.00			_		0.00	l
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
2008	YEAR TOTAL	‡					22.66	99.85	752.16	23.99	164.07	2.76	12.62	94.61	4.87	20.64
EXEMPTION	DISTANCE FROM LAND IN	<u> </u>		<u> </u>	l	l	U	1	L	l	I					
CALCULATION	MILES	1										466.20	466.20	466.20	466.20	19749.87
	14.0	<u></u>														L

Form MMS-139 (May 2001)

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AIR EMISSIONS CALCULATIONS - THIRD YEAR

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL		T	CONTACT		PHONE	REMARKS					
Chevron U.S.A. Inc.	South Timballer	52	OCS-G-1241		#C, #D			S. A. Rondeno	 	(504) 592-6853						
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL		TIME			A POUNDS P			r	FS	TIMATED TO	NS	
	Diesel Engines	HP	GAL/HR	GAL/D	- 11011		<u> </u>					····				
	Nat. Gas Engines	HP	SCF/HR	SCF/D				***************************************								
		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	Ιo	lò	0.00	lo	ا	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER>600hp diesel	1 0	0	0.00	Ö	o	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER>600hp diesel	l o	0	0.00	lo	l o	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER>600hp diesel	1 0	Ó	0.00	l 0	Ó	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l e	BURNER diesel	1 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
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PIPELINE	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
INSTALLATION	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
l	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
1	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(dive)	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	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
INSTALLATION	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(liftboat)	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	2000	96.6	2318.40	6	104	1.41	6.47	48.46	1.45	10.57	0.44	2.02	15.12	0.45	3.30
	TURBINE nat gas	0	0	0.00	0	0	l	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	1	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	1	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
1	BURNETP net 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
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AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
Chevron U.S.A.	South Timbalier	52	OCS-G-1241		#C, #D
Year		Emitted		Substance	
	PM	SOx	NOx	voc	co
2007	4.10	18.73	140.47	6.16	30.65
2008	2.76	12.62	94.61	4.87	20.64
2009	0.44	2.02	15.12	2.64	3.30
2010	0.44	2.02	15.12	2.64	3.30
2011	0.44	2.02	15.12	2.64	3.30
2012	0.44	2.02	15.12	2.64	3.30
2013	0.44	2.02	15.12	2.64	3.30
2014	0.44	2.02	15.12	2.64	3.30
2015	0.44	2.02	15.12	2.64	3.30
2016	0.44	2.02	15.12	2.64	3.30
Allowable	466.20	466.20	466.20	466.20	19749.87

SECTION H ENVIRONMENTAL IMPACT ANALYSIS

(Environment Report)

Pursuant to NTL 2003-G17, Chevron USA, Inc. has included with this Supplemental Development Operations Coordination Document an Environmental Impact Analysis prepared by John Chance Land Survey, Inc, which addresses the activities proposed for the proposed well.

SECTION I COASTAL ZONE CONSISTENCY CERTIFICATION

The Coastal Zone Management Consistency Certification is not required.

SECTION J PLAN INFORMATION FORM

The MMS-137 Plan Information Form is included as Attachment A-2.



ENVIRONMENTAL IMPACT ANALYSIS SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATIONS DOCUMENT

SOUTH TIMBALIER AREA BLOCK 51 AND 52 OCS-G 4464 OFFSHORE LOUISIANA

> CHEVRON U.S.A., INC. 935 GRAVIER STREET NEW ORLEANS, LOUISIANA 70112

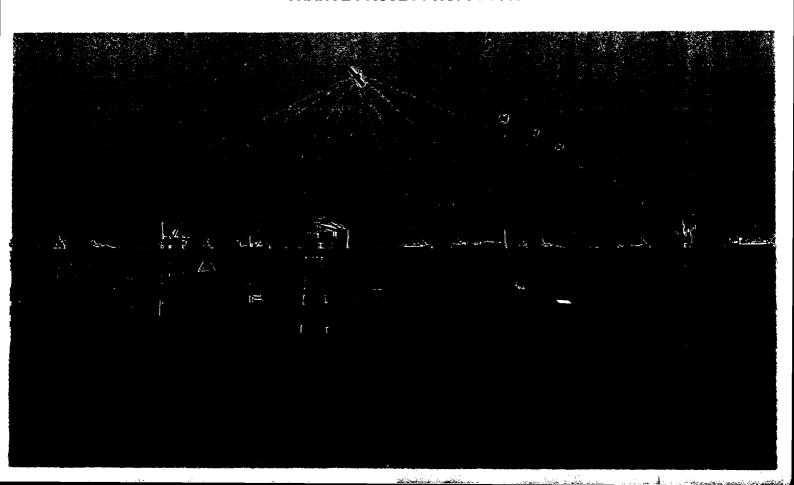
> > SUBMITTED TO:
> > MS. SHIRLEY A. RONDENO
> > PERMIT SPECIALIST



MARCH 2004

PREPARED BY:
JOHN CHANCE LAND SURVEYS, INC.
REGULATORY AND ECOLOGICAL SERVICES GROUP
200 DULLES DRIVE
LAFAYETTE, LOUISIANA 70506

CHANCE PROJECT NO. 04-5146





(A) Impact-Producing Factors (IPFs)

Contained below is a worksheet provided by the MMS that identifies the environmental resources that could be impacted by IPFs. If an "x" is noted in one of the fields below it is because we determined that that specific environmental resource might be impacted by that specific IPF. Footnotes have been included for some of the cells and these correspond to a statement that explains the applicability for the proposed activity for South Timbalier Area Block 51 and 52. Where any of the IPFs may affect a specific environmental resource an analysis of that effect is provided.

Environmental Impact Analysis Worksheet

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Footnotes for Environmental Impact Analysis Worksheet

- 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 noactivity zone; or
 - (d) Proximity of any submarine bank (500 ft buffer zone) with relief greater than 2 meters that is not protected by the Topographic Features Stipulation attached to an OCS lease.
- 2. Activities with any bottom disturbance within an OCS lease block protected through the Live Bottom (Pinnacle Trend) Stipulation attached to an OCS lease.
- 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 H₂S concentrations greater than 500 ppm might be encountered.
- 6. All activities that could result in an accidental spill of produced liquid hydrocarbons or diesel fuel that is determined to impact these environmental resources. If the proposed action is located a sufficient distance from a resource that no impact would occur, the EIA will note that in a sentence or two.
- 7. All activities that involve seafloor disturbances, including anchor placement, in any OCS block designated by the MMS as having high-probability for the occurrence of shipwrecks or prehistoric sites, including such blocks that will be affected that are adjacent to the lease block in which the planned activity will occur. If the proposed activities are located at sufficient distance from a shipwreck or prehistoric site that no impact would occur, the EIA will note that in a sentence or two.
- 8. All activities that are determined to possibly have an adverse effect on endangered or threatened marine mammals or sea turtles or their critical habitats.
- 9. Production activities that involve transportation of produced fluids to shore using shuttle tankers or barges.





(B) Analysis

Site-specific at Offshore Location

Designated Topographic Features

There are no anticipated impacts to any marine sanctuaries or topographic features from the site-specific proposed activity in South Timbalier Area Block 51 and 52. The following Impact Producing Factors (IPFs) would not have any affects on topographic features: Effluents (including muds, cuttings, and other discharges), Emissions (including air, noise, light, etc.), Shore Bound Wastes, and Physical Disturbances to the seafloor. This lack of impacts is primarily due to the fact that the nearest designated topographic feature, specifically Diaphus Bank, is located within South Timbalier Area Block 314, which is approximately 53 miles away from the proposed activities.

The proposed activities are unlikely to affect the area via surface or subsurface oil spill. No ecological impacts are expected since the water depth would typically not allow any oil to reach the seafloor to impact any organisms found there. The dispersion rate would also be high enough that the oil that may remain in a subsea location due to a subsea leak would be moved away from any banks by natural current flow around that bank. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional Oil Spill Response Plan (OSRP) (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Pinnacle Trend Area Live Bottoms

The nearest block with a pinnacle trend live bottom stipulation occurs approximately 123 miles away in Main Pass Area Block 290. Therefore, Impact Producing Factors (IPFs) from South Timbalier Area Block 51 and 52 such as Effluents (including muds, cuttings, and other discharges), Emissions (including air, noise, light, etc.), Shore Bound Wastes, and Physical Disturbance to the seafloor are not anticipated to affect these site-specific features.

It is unlikely that any accidental surface or subsurface oil spill from the proposed activities would occur. However no impact to any biota associated with the pinnacle trends area live bottoms found in the Central Gulf of Mexico is expected due to a spill within this block, as the nearest block that falls within that stipulation is 123 miles away. This distance and the depth of the live bottoms alleviates any impacts due to oiling as most of the subsurface oil would immediately rise up to the surface or higher in the water column, and surface oil would never come into contact with anything at such a depth. The activities proposed in this plan will be





covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Eastern Gulf Live Bottoms

The nearest Eastern Gulf Live Bottom Area is over 123 miles east from the proposed activity in South Timbalier Area Block 51 and 52 therefore no IPFs (Emissions, Effluents, Shore Bound Wastes, Physical Disturbances to the Seafloor, and Accidents) are expected to impact any Eastern Gulf Live Bottom area.

It is unlikely that the any Eastern Gulf Live Bottom Area would be affected via an accidental surface or subsurface oil spill generated by the proposed activities. Due to the tendency of oil to rise in the water column, and the dispersal that would affect a surface or subsurface spill there would be little or no impact to Eastern Gulf Live Bottoms due to the distance from this block. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Chemosynthetic Communities

The proposed activities for South Timbalier Area Block 51 and 52 will occur in water that ranges from approximately 50 feet to 65 feet deep thereby eliminating any threat to Chemosynthetic communities, which would normally occur in water depths of at least 400 meters (1,312 feet). Therefore no IPFs (including: effluents, emissions, physical disturbances, accidents, or shore bound wastes) from the proposed activities in South Timbalier Area Block 51 and 52 would be expected to impact any chemosynthetic community.

Water Quality

As with all offshore activity there is always the probability for impacts to water quality. This usually occurs through accidents or effluent discharge. All discharges for the proposed activity are going to be in accordance with the National Pollutant Discharge Elimination System (NPDES), specifically Chevron U.S.A., Inc.'s general permit under GMG 290000 issued by the U.S. Environmental Protection Agency (EPA). Due to the analysis done by EPA no operational discharges are expected to impact water quality within South Timbalier Area Block 51 and 52.

It is unlikely that due to any of the proposed activities an oil spill would occur in South Timbalier Area Block 51 and 52. However if an accidental spill were to occur water quality would be adversely impacted for a period of time by





petroleum products and byproducts. However this time frame would be shortened by the natural dispersion and breakdown (organic and microbial decomposition) that would remove the oil from the water or at the very least would dilute it to levels that would be less hazardous to the environment. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Fisheries

South Timbalier Area Block 51 and 52 lies within the limits of the brown shrimp harvesting grounds, the white shrimp harvesting grounds, coastal demersal fish, coastal pelagics, primary industrial bottomfishing area and major finfish harvest area. This block lies outside the fishing limits of the principle menhaden fishing grounds and the principal seabob grounds. This area is also south of important blue crab and oyster lease producing areas, which are over 40 miles to the north near the coast (USIDOI, MMS, 1986, Visual No. 2).

Based on the proposed activities it is highly unlikely that an accidental surface or subsurface spill would occur. If a spill were to occur the finfish and shellfish that could be impacted would probably evacuate the area of impact and if any finfish and shellfish did come into contact with any spill residue the affect would most likely not be lethal as the finfish can metabolize the hydrocarbons and avoid increased exposure. The other IPFs that could occur within this area are unlikely to impact any of the above-mentioned fisheries. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Marine Mammals

Endangered or threatened whale species, which may occur in South Timbalier Area Block 51 and 52, are blue whale (*Balaenoptera musculus*), finback whale (*Balaenoptera physalus*), humpback whale (*Megaptera novaeangliae*), sei whale (*Balaenoptera borealis*) and sperm whale (*Physter catdon*) (USDOI, Region IV Endangered Species Notebook).

The blue whale and sei whale have never been common in the Gulf of Mexico and have very few documented historical Gulf sightings. There is a small population of finback whales in the Gulf and Caribbean Sea (Schmidly 1981), with some Gulf sightings of fin whales in the deeper waters of the North-central Gulf (Mullin et al. 1991). The humpback whale is found in all oceans of the world; recent sightings in the Gulf of Mexico have been sporadic but included the Central and Eastern Gulf (Schmidly 1981). The sperm whale is the most abundant large whale in the Gulf of Mexico, and has been sighted on most





surveys conducted in the deeper waters. It is commonly seen off the continental shelf edge in the vicinity of the Mississippi River Delta (Mullin et al. 1991 in MMS 1992). Most of these whales, with the exception of the blue and sei whales, may utilize South Timbalier Area Block 51 and 52 at some time, however these would be very rare occurrences.

The West Indian manatee (*Trichechus manatus*), a federally endangered marine mammal, has historically utilized (seasonally) shallow protected estuarine waters of the northern Gulf of Mexico, including coastal Louisiana but would not be expected to utilize the open marine waters of South Timbalier Area Block 51 and 52 (MMS 1992).

Another utilization of this block would come from Cetaceans or more specifically Family Delphinidae, which includes the porpoises and dolphins, and species such as the Spotted dolphin (*Stenella plagiodon*), Common dolphin (*Delphinus delphis*), Atlantic Bottle-nosed dolphin (*Tursiops truncatus*), and the Short-Finned Pilot Whale (*Globicephala macrorhyncha*) (Lowery, 1974).

There may be adverse impacts by several of the IPFs to marine mammals due to the proposed activities for South Timbalier Area Block 51 and 52. These include but are not limited to: vessel traffic, noise, accidental oil spills, effluent discharge, and loss of shore bound wastes. The only lethal affects, which would be an extremely rare occurrence, if occurring at all, would be due to oil spills, ingestion of plastic material, or collision with a vessel. Some of the IPFs (noise, effluent discharge, etc.) would affect marine mammals in a non-lethal manner due to stress. When stressed the individuals in a population could become more prone to infection and weaken, this could affect entire pods, however these would be sporadic events and are unlikely to happen.

Any disturbance could theoretically affect populations of marine mammals but it is highly unlikely that this would occur due to their ability to travel to other areas within their home range. Fatalities are also unlikely and are unexpected barring catastrophic occurrences.

Sea Turtles

The following species are protected and are found within the Gulf Of Mexico: Kemp's ridley turtle (*Lepidochelya kempii*), green turtle (*Chelonia mydas*), hawksbill turtle (*Eretmochelys imbricata*), leatherback turtle (*Dermochelys coriacea*) and loggerhead turtle (*Caretta caretta*) (USDOI, Region IV Endangered Species Notebook).

The green turtle is found throughout the Gulf of Mexico with infrequent nesting occurrences throughout, and nesting aggregations on the Florida and Yucatan





coasts. Green turtles prefer depths of less than 20 m (66 ft) where seagrasses are abundant (NRC 1990). Leatherbacks are oceanic turtles but do enter shallower waters at times. There are rare but reported cases of leatherbacks nesting on the Florida panhandle (MMS 1992). The hawksbill is the least commonly reported marine turtle in the Northern Gulf, with Texas being the only state with regular occurrences. It is more common in tropical Caribbean waters. Kemp's Ridley is the most endangered species of marine turtle and is common in Texas and Mexico. Loggerheads occur worldwide in depths varying from those found in estuaries to the continental shelf. Major Gulf nesting areas for this species include the beaches along the Florida panhandle, South Florida, and Padre Island, Texas. In the Central Gulf loggerheads are known to nest on the beaches and the turtles are commonly observed around platforms. Some of these turtles, particularly the loggerhead, may temporarily utilize South Timbalier Area Block 51 and 52, however it would be infrequent and no impacts would be expected from the project.

IPFs such as vessel traffic, noise, shore bound waste losses, effluents, and accidental oil spills could possibly impact through stress or even kill small numbers of turtles. Oil spills and response activities have the potential to harm individuals through consumption of oil particles or oiled food sources. The Oil Pollution Act of 1990 has response planning techniques and protections in place to alleviate most of these issues.

The majority of impacts are not expected to be lethal, however the impacts that are expected through nonlethal IPFs could cause declines in survival and reproductive rates, which would have detrimental affects on the population as a whole, yet as stated above mitigative steps are already in place via the Oil Pollution Act of 1990.

Air Quality

No IPFs should impact the Air Quality within the immediate vicinity of the work proposed within South Timbalier Area Block 51 and 52. Emissions will be kept within accepted standards and Effluents, Physical Disturbances to the seafloor, and Shore Bound Wastes are not expected to decrease the air quality. In the unlikely event that an accidental oil spill would occur there might be some Air Quality impacts however these would be kept to a minimum.

Shipwreck sites and Prehistoric Archeological sites (known or potential)

Upon review of previous hazard surveys and archeological assessments it was determined that there was no indication that this, South Timbalier Area Block 51 and 52, would have shipwreck or archaeological sites. Any proposed activities would not be expected to impact any shipwrecks or archeological features.





Therefore it is highly unlikely that any of the IPFs, especially Physical Disturbances to the seafloor, would cause any impacts. Effluents, Emissions, Shore Bound Wastes, and Accidents would not be expected to impact any archeological sites if they were present.

Vicinity of Offshore Location

Essential Fish Habitat

This South Timbalier Area Block 51 and 52 lies within the limits of the brown shrimp harvesting grounds, the white shrimp harvesting grounds, coastal demersal fish, coastal pelagics, Primary Industrial Bottomfishing area and major finfish harvest area. This block lies outside the fishing limits of the principle menhaden fishing grounds and the principal seabob grounds. The area is also some distance from important blue crab and oyster lease producing areas, which are to the north near the coast (USIDOI, MMS, 1986, Visual No. 2).

All marine waters and substrates of the Gulf of Mexico from the shoreline to the seaward limit of the Exclusive Economic Zone are considered essential habitat for fish managed by the Gulf of Mexico Fishery Management Council (GMFMC). Under this definition the marine waters surrounding South Timbalier Area Block 51 and 52 is included as EFH for species managed by the United States Department of Commerce, National Marine Fisheries Service through the GMFMC. The fisheries affected by the EFH designation are the fisheries for shrimp, red drum, coastal migratory pelagics, reef fish, and stone crab. However the proposed activities in South Timbalier Area Block 51 and 52 should not cause significant or long-term adverse impacts to Essential Fish Habitat. (GMFMC, 1998)

Based on the proposed activities it is highly unlikely that an accidental surface or subsurface spill would occur. If a spill were to occur the finfish and shellfish that could be impacted would probably evacuate the area of impact and if any finfish and shellfish did come into contact with any spill residue the affect would most likely not be lethal as the finfish can metabolize the hydrocarbons and avoid increased exposure. The other IPFs that could occur within this area are unlikely to impact any of the above-mentioned fisheries. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Marine and Pelagic Birds

Many of the IPFs would have no impact upon Marine and Pelagic Bird species. Effluents, Emissions, Physical Disturbances to the Seafloor, and Shore Bound





Wastes would not affect any avian species that would occur within South Timbalier Area Block 51 and 52. Accidental oil spills have the ability to impact individual birds, mainly due to the oiling of the individual's feathers and well as possible ingestion of the oil product. It is unlikely that a spill would occur from the proposed activities and if one did occur the activities proposed in this initial exploration plan document will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Public Health and Safety

There are no IPFs (including Emissions, Effluents, Physical disturbances to the seafloor, Shore Bound Wastes, or Accidents) that would cause any harm to public health and safety. The area is being requested to be classified, as H_2S absent, H_2S present, or H_2S unknown, in accordance with 30 CFR 250.417 (c) by the Mineral Management Service, based on previous drillings from the same block.

Coastal and Onshore

Beaches

With the exception of an accidental oil spill no IPFs (including Emissions, Effluents, Physical disturbances to the seafloor, and Shore Bound Wastes) are expected to impact any of the beaches in onshore locations. An accidental oil spill from the proposed activities would have a 15/26/29 percent chance (based on 3, 10, or 30 days from spill) of causing impacts to the beaches that occur on shore, in Terrebone Parish, 11 miles from South Timbalier Area Block 51 and 52. This distance along with the response capabilities implemented would greatly decrease the probability that an oil spill would have a large impact to these areas. Upon reviewing the OCS EIS/EA MMS 2002-052 publication the historical spill data and trajectory / risk calculations show that there would be a small risk of impact to the coastline or other shoreline environmental resources of Louisiana. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

<u>Wetlands</u>

With the exception of an accidental oil spill no IPFs (including Emissions, Effluents, Physical disturbances to the seafloor, and Shore Bound Wastes) are expected to impact any of the wetlands in onshore locations. An accidental oil spill from the proposed activities would have a 15/26/29 percent chance (based on 3, 10, or 30 days from spill) of causing impacts to the wetlands that occur at





the shore, in Terrebone Parish, 11 miles from South Timbalier Area Block 51 and 52. This distance along with the response capabilities implemented would greatly decrease the probability that an oil spill would have a large impact to these areas. Upon reviewing the OCS EIS/EA MMS 2002-052 publication the historical spill data and trajectory / risk calculations show that there would be a small risk of impact to the coastline or other shoreline environmental resources of Louisiana. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Shore Birds and Coastal Nesting Birds

With the exception of an accidental oil spill no IPFs (including Emissions, Effluents, Physical disturbances to the seafloor, and Shore Bound Wastes) are expected to impact any of the shore birds and coastal nesting birds in onshore locations. An accidental oil spill from the proposed activities would have a 15/26/29 percent chance (based on 3, 10, or 30 days from spill) of causing impacts to the shore birds and coastal nesting birds that occur on shore, in Terrebonne Parish, 11 miles from South Timbalier Area Block 51 and 52. This distance along with the response capabilities implemented would greatly decrease the probability that an oil spill would have a large impact to these areas. Upon reviewing the OCS EIS/EA MMS 2002-052 publication the historical spill data and trajectory / risk calculations show that there would be a small risk of impact to the coastline or other shoreline environmental resources of Louisiana. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Coastal Wildlife Refuges

With the exception of an accidental oil spill no IPFs (including Emissions, Effluents, Physical disturbances to the seafloor, and Shore Bound Wastes) are expected to impact any of Coastal Wildlife Refuges in onshore locations. An accidental oil spill from the proposed activities would have a 15/26/29 percent chance (based on 3, 10, or 30 days from spill) of causing impacts to the Coastal Wildlife Refuges that occur on shore, in Terrebonne Parish, 11 miles from South Timbalier Area Block 51 and 52, specifically Terrebonne Barrier Island Wildlife Refuge. Other coastal wildlife refuges with smaller chances of impacts include Wisner Wildlife Management Area. The distance along with the response capabilities implemented would greatly decrease the probability that an oil spill would have a large impact to these areas. Upon reviewing the OCS EIS/EA MMS 2002-052 publication the historical spill data and trajectory / risk calculations show that there would be a small risk of impact to the coastline or other shoreline environmental resources of Louisiana. The activities proposed in





this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).

Wilderness Areas

There are no IPFs (including Emissions, Effluents, Physical disturbances to the seafloor, and Shore Bound Wastes) that are expected to have any impact to any of the onshore Wilderness Areas. An accidental oil spill from the proposed activities should not cause impacts to any coastal Wilderness Areas. Louisiana has three areas designated by congress as Wilderness Areas, namely Breton Wilderness, Kisatchie Hills Wilderness, and Lacassine Wilderness. The only wilderness area located along the coastal region of Louisiana is the Breton Wilderness. Breton Wilderness is located on the eastern side of the Mississippi River over 100 miles from South Timbalier Area Block 51 and 52, therefore no impacts form the proposed activities are expected to impact Breton Wilderness. The activities proposed in this plan will be covered by Chevron U.S.A., Inc.'s regional OSRP (refer to Section F which contains information submitted in accordance with NTL 2002-G08).





Other Environmental Resources Identified

It is expected that the proposed activities in South Timbalier Area Block 51 and 52 will have no other environmental resources identified or impacted.

(C) Impacts on South Timbalier Area Block 51 and 52

It is expected that the activities proposed for South Timbalier Area Block 51 and 52 will have no impacts on site-specific environmental conditions. The conditions of the site have been analyzed in order to make this judgment.

(D) Alternatives

Due to the lack of Environmental Impacts no alternative was considered for the proposed activities in South Timbalier Area Block 51 and 52.

(E) Mitigation measures

With the exception of measures required by regulation no mitigative steps will be taken to avoid, diminish, or eliminate potential impacts to environmental resources.

(F) Consultation

John Chance Land Surveys, Inc. / FUGRO Ecological Scientists were consulted regarding potential for impacts to environmental resources due to the proposed activities.

(G) References

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