

UNITED STATES GOVERNMENT  
MEMORANDUM

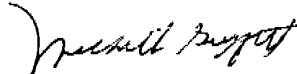
October 24, 2002

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

Subject: Public Information copy of plan  
Control # - S-06040  
Type - Supplemental Exploration Plan  
Lease(s) - OCS-G22501 Block - 54 West Cameron Area  
Operator - Chevron U.S.A. Inc.  
Description - Well F  
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.

  
Michelle Griffitt  
Plan Coordinator

Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
WELL/F	G22501/WC/54	6458 FSL, 1927 FEL	G22501/WC/54

NOTED - SCHEXNAILDRE

Chevron USA Inc.  
Western Shelf Profit Center  
5750 Johnston Street  
P.O. Box 69100  
Lafayette, LA 70596  
Tel: (337) 989-3203  
Fax: (337) 989-3211  
Lfgr@Chevrontexaco.com

Linda F. Granger  
Permit Specialist

S-6040  
MIG

## ChevronTexaco

October 15, 2002

United States Department of the Interior  
Minerals Management Service  
1201 Elmwood Park Blvd.  
New Orleans, LA 70123-2394

Attention: Regional Supervisor  
Field Operations

**Supplemental Exploration Plan  
West Cameron Block 54  
OCS-G-22501 - Well "F"**

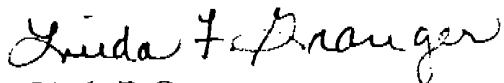
Gentlemen:

To comply with the requirements of 30 CFR 250.203 to drill and suspend the subject well, Chevron is submitting the following information for our Supplemental Exploration Plan:

- a) Five (5) Proprietary copies of our Supplemental Exploration Plan.
- b) Four (4) Public Information copies with confidential information withheld.

It is requested that the information contained in the Proprietary copies be kept confidential. If additional information is needed, please contact me at (337) 989-3203.

Yours very truly,



Linda F. Granger  
Permit Specialist  
Western Shelf Profit Center

CONTROL No. <u>S-6040</u>
REVIEWER: Michelle Griffitt
PHONE: (504) 736-2975

Attachments

# SUPPLEMENTAL EXPLORATION PLAN

## West Cameron Block 54

### OCS-G-22501 – Well “F”

October 15, 2002

Pursuant to 30 CFR 250.203, the following information is being submitted for your consideration and approval.

#### Schedule of Operations

Block 54, West Cameron, Offshore Louisiana was awarded to Chevron USA, Inc. on March 28, 2001 in the Gulf of Mexico Oil and Gas Lease Sale 178-1. The Lease became effective on July 1, 2001. Chevron is covered by a \$3,000,000 area wide bond U89-76-11-0327 in accordance to 30 CFR 256, Subpart 1.

Chevron proposes to drill Well “F” under this Supplemental Exploration Plan. If capable of producing, the well will be temporarily abandoned with a protective structure and required navigational lights. If exploratory drilling results in the discovery of commercial quantities of hydrocarbons, a Supplemental Development Operations Coordination Document will be submitted for your approval.

An approximate time schedule for the respective location is as follows:

	<u>Begin</u>	<u>End</u>	<u>Total Days</u>
Drill & Suspend Well “F”	2/01/03	4/01/03	60 Days

#### Location of Wells

The approximate location of the well proposed in this Plan as well as its' proposed depth is shown on the accompanying **Location/Bathymetry Plat** enclosed as **Attachment I** and is described below:

OCS-G-22501 Well “F”	Surface Location:	6458' FSL and 1927' FEL West Cameron Block 54 Drill Days: 60 days X=1,256,702 Y=-355,974 Lat. 29 37'28” Long. 93 40'22”
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Well “F” as shown on the **Location/Bathymetry Map**, enclosed as part of **Attachment I**, is located in 27' of water.

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## **Drilling Equipment**

Plans are to utilize the jack-up type-drilling rig Glomar High Island II to drill and suspend the well described above. The drilling unit is designed to operate in water depths from fifteen feet (15') to two hundred and fifty feet (250'). The rig has a drilling depth capacity of 20,000 feet. The rig specifications will be made part of the Application for Permit to Drill.

Safety features will include well control and blowout prevention equipment at least as good as those described in 30 CFR 250.406. Appropriate life rafts, life jackets, ring buoys, etc., as prescribed by the United States Coast Guard will be provided. Chevron will take measures to prevent unauthorized discharge of pollutants into the offshore waters in accordance with 30 CFR 250.300. Immediate corrective action will be taken in all cases where pollution has occurred. All hydrocarbon handling equipment will be designed, installed and operated to prevent pollution.

## **Geologic/Geophysical Information**

A Current **Structure Map** covering the entire lease block and showing the location of the proposed well's prospective horizon is enclosed as **Attachment II**. Also enclosed, as part of **Attachment II** is a **Schematic Cross Section** from SW-NE depicting the key horizons and objective sands for the proposed well location, a 3D Seismic Section, Time-Versus Depth chart based on the closest well control and a Biostratigraphic/Lithostratphic Column. This information is considered Proprietary and excluded from Public Information copies of the Plan.

A **Shallow Hazards Report** was submitted with our Initial Exploration Plan, Control No. N-7297, approved on 12/31/01.

A **Shallow Drilling Hazard Assessment Report** with supporting data for the surface location of the proposed well in this Plan is included as **Attachment III**.

## **Archaeological Report**

Per LTL's dated March 17, 1995 and September 5, 1995, Lease OCS-G-22501 is located in an area which studies have determined have a high probability for the occurrence of archaeological resources and requires a report which contains an analysis of the potential for historic period shipwrecks and prehistoric archaeological resources. A copy of the Archaeological Assessment performed by Thales and Associates is attached as **Attachment IV** for your review and is included with our Shallow Drilling Hazard Assessment Report.

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### **Biological Information**

The seafloor disturbing activities proposed in this Plan are in water depths less than 400 meters (1312 feet) and are not within 500' of a no activity zone; therefore, the **Chemosynthetic Information** and the **Topographic Features Information** is not applicable.

### **H<sub>2</sub>S Determination**

In accordance with 30 CFR 250.417, Chevron requests that the Regional Supervisor classify the area of West Cameron Block 54 as an area where the absence of H<sub>2</sub>S has been confirmed based on not encountering H<sub>2</sub>S in the drilling of OCS-G-21533 Well G-3 to a permitted depth of 18,800' TVD in adjacent West Cameron Block 47.

### **New or Unusual Technology**

No new techniques or unusual technology will be required for these operations.

### **Oil Spill Contingency Plan**

The following information is regarding our Regional Oil Spill Response Plan (OSRP) approved by the Minerals Management Service on November 26, 2001.

Chevron USA, Production Company, a division of Chevron U.S.A., Inc. and Chevron Pipeline Company, a wholly subsidiary of Chevron Corporation are covered under the above referenced OSRP as well as the activities proposed in this Supplemental Exploration Plan.

All 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, submitted for approval on February 23, 2000, 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) shorebases located in

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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 Supplemental Exploration Plan.

### **Worst-Case Discharge Analysis**

<b>Category</b>	<b>Regional OSRP "Nearshore" Worst-Case Discharge Scenario</b>	<b>Regional OSRP "Farshore" Worst-Case Discharge Scenario</b>	<b>EP or DOCD</b>
<b>Type of Activity</b> ( <i>Types of activities include P/L, P/F, Caisson, subsea completions or manifold, and mobile drilling rig</i> )	Pipeline	Sub-sea Completion	Mobile Drilling Rig
<b>Spill Location</b> ( <i>area/block</i> )	Chandeleur Sound Addition Block 11, (inside barrier islands)	Green Canyon Block 205, OCS-G-5911	West Cameron Block 54
<b>Facility Designation</b> ( <i>e.g., Well #2, Platform JA, Pipeline Segment No. 6373</i> )	20" Crude Oil Line from Empire, LA to Pascagoula, MS – in state waters	Well No. A-2, Genesis Deepwater Spar – MMS Facility ID No. 67	Well "F"
<b>Distance to Nearest Shoreline</b> ( <i>miles</i> )	2-miles	81-miles	8 miles
<b>Volume</b> Storage Tanks (total) Flowlines (on facility) Lease Term Pipelines Uncontrolled Blowout (volume per day)  Total Volume	Not itemized since WCD based on pipeline calculations as defined by CFR 254.47©  146,847 barrels	4000 barrels 250 barrels 80,000 barrels  2,404,250 barrels	
<b>Type of Oil(s)</b> ( <i>crude oil, condensate, diesel</i> )	Crude Oil	Crude Oil	Crude Oil
APIE Gravity(s)-Provide APIE gravity of all oils given under "Type of Oil(s)" above. Estimate for EP's)	22.3 <sup>o</sup>	27.7 <sup>o</sup>	29.0 <sup>o</sup>

Since Chevron has the capability to respond to the worst-case spill scenario included in its Regional OSRP, approved on November 26, 2001, and since the worst-case scenario determined for our Supplemental Exploration Plan 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 Exploration Plan.

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## **Onshore Facilities**

West Cameron Block 54 is located approximately 8 miles from the nearest shoreline off the Louisiana Coast and 91 miles from our support base in Intracoastal City, La. A **Vicinity Map** showing this block and its proximity to shore and the Intracoastal City Base is being submitted with this Plan as **Attachment V**.

The Intracoastal City 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. The base will also serve as a loading point for tools, equipment and machinery to be delivered to the MODU, crew change and transportation base, and temporary storage for materials and equipment.

Helicopters will be used to transport small supplies, and on occasion, personnel. The most practical, direct route permitted by the weather and traffic conditions will be utilized. Support vessels and travel frequency during the proposed drilling activities are as follows:

	<u>Drilling</u>
Crewboat	1/week
Workboat	3/week
Helicopters	2/day

## **Wastes and Discharges Information**

The EPA's Region 6 General NPDES Permit for the Gulf of Mexico regulates all drilling discharges. They include the following types and estimated volumes.

### Drilling Fluids

The discharge of drilling fluids shall be limited and monitored as follows:

- The discharge of oil-based drilling fluids is prohibited.
- The discharge of oil contaminated drilling fluids is prohibited.
- The discharge of drilling fluids which diesel oil has been added is prohibited.
- Discharged drilling fluids shall meet both a daily minimum and a monthly average minimum toxicity test (96-hour LC50).
- A discharge rate of 1000 bbls/hr max 1 hour when discharging.

A **Generic List of Mud and Chemicals** is included in this Plan as **Attachment VI**.

### Drill Cuttings

The discharge of drill cuttings shall be limited and monitored as follows:

- The discharge of oil-based drilling fluids is prohibited.

- The discharge of oil-contaminated drilling fluids is prohibited.
- The discharge of drill cuttings which diesel oil has been added is prohibited.
- Discharged drill cuttings shall meet both a daily minimum and a monthly average minimum toxicity test (96-hour LC50)

#### Excess Cement Slurry

Excess cement slurry may be discharged if there is no free oil present in the slurry. Free oil is determined by either a visual sheen observation or the static sheen test method. The number of days a sheen is observed must be documented.

#### Well Treatment, Completion or Workover Fluids

Treatment, completion and workover fluids may be discharged as long as the fluid contains no priority pollutants, while discharging it must pass the static sheen test daily and the oil and grease content can not exceed 29 mg/l.

#### Sanitary Waste

The discharge of sanitary waste must not contain any floating solids and the chlorine residual of the discharge must be at or above 1 mg/l and as near to 1 mg/l as practical. Daily observations must be performed for floating solids after morning or midday meals, and chlorine residual must be performed monthly using the HACH 66 test kit.

#### Domestic Waste

The discharge of domestic waste is allowed as long as there are not floating solids or foam in the discharge. Daily observations must be performed after morning or midday meals.

#### Deck Drainage

Deck drainage is allowed and must not contain free oil determined by daily visual sheen observations.

#### Uncontaminated SeaWater or Freshwater

Uncontaminated water may be discharged as long as there is no free oil in the discharge. Weekly visual observation or the static sheen test determines free oil.

#### Produced Water

The discharge of produced water may take place if the following is achieved:

- Monthly oil and grease content determined by gravimetric analysis is less than or equal to 29 mg/l with no daily sample exceeding 42 mg/l.
- The produced water must meet a toxicity requirement.
- Sheen's from produced water discharge requires an additional sample taken to confirm oil and grease content.

All requirements listed above must be documented and reported to the EPA annually.



### **Lease Stipulations**

Chevron U.S.A., Inc. as operator acknowledges that West Cameron Block 54 is not covered by any Stipulations but shall utilize the best available and safest technologies throughout the project. Chevron will comply with all applicable Federal, State, and local requirements regarding air emissions, water quality and discharge for the proposed activities, as well as any other permit conditions.

### **Air Emissions**

The subject well will be drilled and suspended using the jack-up type-drilling rig Noble Rig Glomar High Island II. Air emissions related to the proposed activities will result mainly from drilling rig operations and service vessels. These emissions occur from combustion or burning of fuels and natural gas and from venting or evaporation of hydrocarbons. The combustion of fuels occurs primarily on diesel-powered generators, pumps or motors and from lighter fuel motors.

Included with this Plan, as **Attachment VII** is our projected Air Quality Report prepared in accordance with 30 CFR 250.303(d). The report addresses the drilling activities of the proposed well and verifies that pollutant emissions will be within the exemption levels defined in 30 CFR 250.303(d).

### **Environmental Report**

An Environmental Report is not required for this Plan.

### **Coastal Management Consistency**

Coastal Management Consistency is not required for this Plan.

Chevron U.S.A., Inc., as Lessee of West Cameron Block 54 believes that the **Structure Maps** and **Cross-Sections** submitted with this Supplemental Exploration Plan (**Attachment II**) 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.

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# ATTACHMENT I

Location/Bathymetry Map

26'

27'

28' G21533

CHEVRON

29'

8664

30'

14474

15068 54


1538

PROPOSED SURFACE LOCATION "F"

G22501

SHELL

15571

	
<p><b>WEST CAMERON BLK 54</b> OFFSHORE LOUISIANA</p> <p><b>LOCATION PLAT</b> <b>AREA BATHYMETRY</b></p> <p>PROPOSED WELL OCS-G-22501 "F"</p>	
<p>BY: S JOHNSON</p>	<p>DATE: 10/14/02</p>
<p>SCALE: 1" = 2000'</p>	
<p>LATTICE</p>	<p>LV 3, 4, 31, 41</p>
<p>LONGITUDE</p>	<p>we54-f.plt</p>
<p>18.30.62</p>	

# ATTACHMENT III

Shallow Drilling Hazard Assessment Report

# THALES

September 26, 2002

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

THALES GEOSOLUTIONS, INC  
36499 Perkins Road  
Prairieville, Louisiana 70768  
USA  
Tel: 1 225 673 5881  
Fax: 1 225 673 5877  
[www.thales-geosolutions.com](http://www.thales-geosolutions.com)

**RE: Chevron USA, Inc.  
Proposed OCS-G 22501 'F' SL  
Block 54, West Cameron Area  
Archaeological & Shallow Hazards Analysis**

Dear Staff:

Chevron USA, Inc. proposes to drill from the OCS-G 22501 'F' surface location at 1,927' FEL and 6,458' FSL of Block 54, West Cameron Area. The entire lease block was surveyed in September 1994 along 50-meter N/S line spacing and 900-meter tie line intervals. Magnetometer, side scan sonar, echo sounder, subbottom profiler, and analog seismic data are enclosed from the two (2) lines closest to the proposed well location. The archaeological and hazard report were updated for Chevron USA, Inc. covering lease OCS-G 22501 in 2001, and the MMS approved the operator's previous Exploration Plan as of December 31, 2001. The proposed surface location is 310' south of the northern Anchorage Area boundary crossing E/W through the central portion of Block 54. Water depth at the proposed 'F' location is approximately 36 feet, and the smooth seafloor consists primarily of sand. The closest magnetic anomaly cluster (#94) is 3,550' SSW of the proposed well location, and there were no side scan sonar contacts of shipwrecks or obstructions near the planned drill site. The closest pipeline crosses 3,150' N of the proposed well site. Subbottom profiler data highlighted tightly laminated bedding planes from the seafloor to a depth of 60'. These upper beds consist of late Pleistocene clays (Beaumont/Prairie Formation) covered with a thin, 3-foot veneer of sand. There were no channels incised within the Pleistocene strata near the proposed site, and there were no high probability zones for prehistoric archaeological sites near the location. Analog seismic data revealed a fault to the north of the location, and 3-D data indicate that the fault will be intersected by the proposed wellbore at 1,800 milliseconds below sea level. Appropriate drilling technology will be employed when drilling across the fault. There were no indications of any prominent amplitude anomalies within the upper second of data beneath the well site. All pipelines and magnetic anomalies have been identified across the lease, and these features will be marked with appropriate marine survey equipment to comply with NTL No. 98-20, Section IV during rig moves and drilling.

Yours truly,



Robert J. Floyd  
Marine Archaeologist  
Shallow Hazard Analyst

# ATTACHMENT IV

Archaeological Report

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# THALES

September 26, 2002

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

THALES GEOSOLUTIONS, INC.  
36499 Perkins Road  
Prairieville, Louisiana 70769  
USA  
Tel: 1 225 673 5881  
Fax: 1 225 673 5877  
[www.thales-geosolutions.com](http://www.thales-geosolutions.com)

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Yours truly,



Robert J. Floyd  
Marine Archaeologist  
Shallow Hazard Analyst

# ATTACHMENT V

Vicinity Map





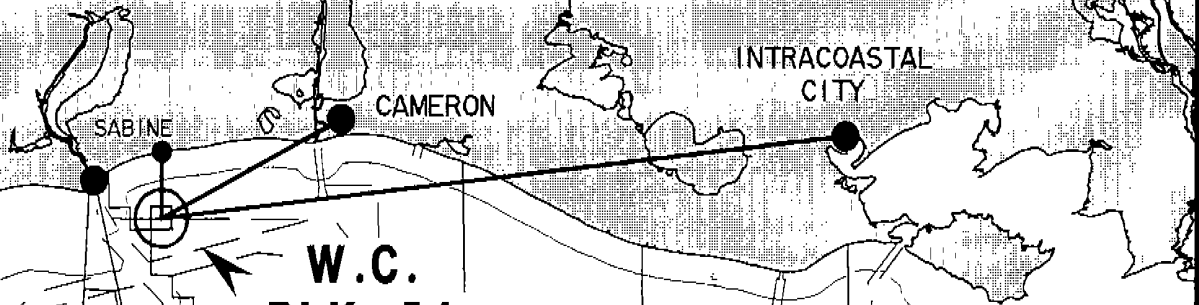
LAFAYETTE

LAKE CHARLES

8.10 MILES TO NEAREST LAND

26.87 MILES TO CAMERON

92.08 MILES TO INTRACOASTAL CITY



4.60 MILES TO FAIRWAY

# W.C. BLK. 54

HIGH ISLAND

WEST CAMERON

EAST CAMERON

VERMILION

SOUTH MARSH ISLAND

EUGENE ISLAND

EAST BREAKS

GARDEN BANKS

<b>VICINITY MAP</b> OFFSHORE LOUISIANA <b>WEST CAMERON</b> <b>BLOCK 54</b>	
LATITUDE: _____ LONGITUDE: _____	By: _____ C.I.# _____ DATE: 10/12/02 SCALE: 1"=25 MILES 
w.c.54.vcm	

# ATTACHMENT VI

Generic List of Mud & Chemicals

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## **DRILLING FLUIDS COMPOSITION**

- Fresh Water, Salt Water, Bentonite, Kaolin, Sepiolite, or Attapulgite Clays, Barite & Chemicals
- Various amounts and concentrations of salt and fresh waters, clays, barites and chemicals may be used.

## **CHEMICALS AND ADDITIVES**

Acrylamide - AMPS (Alkali Metal Salt of Acrylamido Alkyl sulfonated Acid) Copolymer

Asphalt - Polypropylene Glycol Blend

Calcium Chloride

Calcium Lignosulfonate

Calcium Methylcellulose

Caustic Potash (Potassium Hydroxide)

Caustic Soda (Sodium Hydroxide)

Causticized Leonardite

Chrome Lignosulfonate

Citric Acid

Corn Starch

Cetoamer (Non-Ionic Surfactant)

Fatty Acid Salt in Alkoxylated Alcohol Dispersion

Gilsonite (Asphaltite)

Glass or Plastic Beads

High Molecular Weight Glycol

Lignite (Leonardite)

Lignite-Sulfonated Apyrene-Maleic Anhydride Copolymer

Magnesium Oxide

Modified Corn Starch

Modified HEC

Partially Hydrolyzed Polyacrylamide

Polyacrylamides & Vinyl Sulfonates-Vinylamide Copolymers

Polyanionic Cellulose

Potassium Chloride

Potassium Lignite

Potato Starch

Quaternary Amine Salt (Cationic Polymer Suspension)

Salt of Carboxylic Acid Polymer

Soda Ash (Sodium Carbonate Anhydrous)

Sodium Acid Pyrophosphate (SAAP)

Sodium Bicarbonate

Sodium Carboxymethyl Cellulose

Sodium Chloride

Sodium Polyacrylate Copolymer

Sulfonated Asphalt

Surfactant Blends for Wetting Gilsonite

Xanthan Gum

Zinc Oxide

## **LOST CIRCULATION MATERIALS**

Mica

Walnut Shells

Cellophane Flakes

Fiber Products

Thermostat Plastic Laminate

Calcium Carbonate

## **STUCK PIPE**

Lime - Calcium Hydroxide

Sodium Chloride

Polyalphaolephin & Food Grade Emulsifiers

Carbonous Grind (Black Powder)

## **OIL BASED MUD**

If the use of oil-based mud is indicated in the Drilling Program, or by Subsequent Sundry Notice, there will not be discharge of mud and cuttings overboard.

All mud and cutting and residue will be disposed at an approved 29-B Facility.

# ATTACHMENT VII

Air Quality Report

**EXPLORATION PLAN (EP)  
AIR QUALITY SCREENING CHECKLIST**

OMB Control No.  
Expiration Date: Pending

<b>COMPANY</b>	Chevron U.S.A., Inc.
<b>AREA</b>	West Cameron
<b>BLOCK</b>	Block 54
<b>LEASE</b>	OCS-G-22501
<b>PLATFORM</b>	
<b>WELL</b>	"P"
<b>COMPANY CONTACT</b>	Linda F. Granger
<b>TELEPHONE NO.</b>	(337) 989-3203
<b>REMARKS</b>	Drill and suspend one (1) new surface location, install well protection structure and required Navi-Aids.

"Yes"	"No"	Air Quality Screening Questions
	X	1. Are the proposed activities east of 87.5° W latitude?
	X	2. Are H <sub>2</sub> S concentrations greater than 20 ppm expected?
	X	3. Is gas flaring proposed for greater than 48 continuous hours per well?
	X	4. Is produced liquid burning proposed?
X		5. Is the exploratory activity within 25 miles of shore?
	X	6. Are semi-submersible activities involved and is the facility within 10 miles of shore?
	X	7. Is drillship operations involved and is the facility within 120 miles of shore?
	X	8. Will the exploratory activity be collocated (same surface location) on a production facility?

If ALL questions are answered "No":

Submit only this coversheet with your plan; a full set of spreadsheets is not needed.

If ANY of questions 1 through 7 is answered "Yes":

Prepare and submit a full set of EP spreadsheets with your plan.

If question number 8 is answered "Yes":

Prepare and submit a full set of DOCD spreadsheets showing the cumulative emissions from both the proposed activities and the existing production platform.

<b>COMPANY</b>	CHEVRON U.S.A.
<b>AREA</b>	West Cameron
<b>BLOCK</b>	Block 54
<b>LEASE</b>	OCS-G-22501
<b>PLATFORM</b>	N/A
<b>WELL</b>	Wells "F"
<b>LATITUDE</b>	X=1,256,702
<b>LONGITUDE</b>	Y=-355,974
<b>COMPANY CONTACT</b>	LINDA F. GRANGER
<b>TELEPHONE NO.</b>	(337) 989-3203
<b>REMARKS</b>	Drill and Suspend one (1) new surface location, install well protection structures and required Navi-Aids.

AIR EMISSION CALCULATIONS

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL	LATITUDE	LONGITUDE	CONTACT	PHONE	REMARKS						
CHEVRON U.S.A.	West Cameron	Block 54	OCS-G-22501	N/A	Wells "F"	X=1,256,702	Y=-355,974	LINDA F. GRANGER	(337) 989-3203	Drill and Suspend one (1) new surface location, install						
OPERATIONS	EQUIPMENT		MAX. FUEL	ACT. FUEL	RUN TIME		POUNDS PER HOUR					TONS PER YEAR				
	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	TSP	SOx	NOx	VOC	CO	TSP	SOx	NOx	VOC	CO
DRILLING	PRIME MOVER>600hp diesel	1075	51.9225	1246.14	24	60	0.76	3.48	26.05	0.78	5.68	0.55	2.50	18.75	0.56	4.09
	PRIME MOVER>600hp diesel	1075	51.9225	1246.14	24	60	0.76	3.48	26.05	0.78	5.68	0.55	2.50	18.75	0.56	4.09
	PRIME MOVER>600hp diesel	1075	51.9225	1246.14	24	60	0.76	3.48	26.05	0.78	5.68	0.55	2.50	18.75	0.56	4.09
	PRIME MOVER>600hp diesel	1075	51.9225	1246.14	24	60	0.76	3.48	26.05	0.78	5.68	0.55	2.50	18.75	0.56	4.09
EMERG. GEN.	AUXILIARY EQUIP<600hp diesel	540	26.082	625.97	1	60	1.19	1.75	16.65	1.33	3.60	0.04	0.05	0.50	0.04	0.11
CEMENT SKID	AUXILIARY EQUIP<600hp diesel	100	4.83	115.92	1	60	0.22	0.32	3.08	0.25	0.67	0.01	0.01	0.09	0.01	0.02
LOGGING UNIT	AUXILIARY EQUIP<600hp diesel	75	3.6225	86.94	1	60	0.17	0.24	2.31	0.19	0.50	0.00	0.01	0.07	0.01	0.02
RIG CRANES (2)	AUXILIARY EQUIP<600hp diesel	0	0	0.00	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CREW BOAT>600hp diesel	4000	193.2	4636.80	4	9	2.82	12.93	96.92	2.91	21.15	0.05	0.23	1.74	0.05	0.38
	WORK BOAT>600hp diesel	3000	144.9	3477.60	6	26	2.11	9.70	72.69	2.18	15.86	0.16	0.76	5.67	0.17	1.24
	TUG>600hp diesel(4)	27900	1347.57	32341.68	6	6	19.67	90.21	675.99	20.28	147.49	0.35	1.62	12.17	0.37	2.65
PIPELINE INSTALLATION	PIPELINE LAY/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
	GENERATOR >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
	WINCH <600hp diesel (4)	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
	CRANE <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
	WELDING MACHING<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
	WORK BOAT 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
FACILITY INSTALLATION	DERRICK BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TUGBOAT diesel (3)	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
	WINCH <600hp diesel (4)	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
	DERRICK CRANE>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
	GENERATOR >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
	WORK BOAT>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
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
	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.4 cycle rich nat gas	0	0	0.00	0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	BURNER nat gas	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.	BPD	SCF/HR	COUNT												
	TANK-	0			0	0				0.00	0.00				0.00	0.00
	FLARE-		0		0	0		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	PROCESS VENT-		0		0	0				0.00	0.00			0.00	0.00	0.00
	FUGITIVES-			0.0		0				0.00	0.00			0.00	0.00	0.00
	GLYCOL STILL VENT-		0		0	0				0.00	0.00			0.00	0.00	0.00
DRILLING	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
<b>2003 YEAR TOTAL</b>							<b>29.20</b>	<b>129.06</b>	<b>971.83</b>	<b>30.26</b>	<b>212.00</b>	<b>2.80</b>	<b>12.69</b>	<b>95.26</b>	<b>2.89</b>	<b>20.78</b>
<b>EXEMPTION CALCULATION</b>	<b>DISTANCE FROM LAND IN MILES</b>										<b>271.73</b>	<b>271.73</b>	<b>271.73</b>	<b>271.73</b>	<b>13877.50</b>	
	8.2															

**AIR EMISSION CALCULATIONS**

<b>COMPANY</b>	<b>AREA</b>	<b>BLOCK</b>	<b>LEASE</b>	<b>PLATFORM</b>	<b>WELL</b>
CHEVRON U.S.A.	West Cameron	Block 54	OCS-G-22501	N/A	Wells "F"
<b>Year</b>	<b>Emitted Substance</b>				
	<b>TSP</b>	<b>SOx</b>	<b>NOx</b>	<b>HC</b>	<b>CO</b>
<b>2003</b>	<b>2.80</b>	<b>12.69</b>	<b>95.26</b>	<b>2.89</b>	<b>20.78</b>
<b>Allowable</b>	<b>271.73</b>	<b>271.73</b>	<b>271.73</b>	<b>271.73</b>	<b>13877.50</b>



**AIR EMISSION CALCULATIONS**

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

Equipment/Emission Factors	units	PM	SOx	NOx	VOC	CO	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	P42 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	5	0.593	100	5.5	84	AP42 1.4-1, 14-2, & 1	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