

NOTED - SCHEXNAILDRE

UNITED STATES GOVERNMENT
MEMORANDUM

March 15, 2001

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

Subject: Public Information copy of plan

Control # - S-05589

Type - Supplemental Development Operations Coordinations Document

Lease(s) - OCS-G07963 Block - 807 Mississippi Canyon Area
OCS-G08852 Block - 764 Mississippi Canyon Area

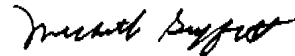
Operator - Shell Deepwater Development Inc.

Description - Wells A-16 and A-19

Rig Type - Not Found

Attached is a copy of the subject plan.

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



Michelle Griffitt
Plan Coordinator

Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
WELL/A-16	G08852/MC/764	3642 FNL, 10189 FEL	G07963/MC/807
WELL/A-19	G08852/MC/764	3657 FNL, 10146 FEL	G07963/MC/807

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Shell Deepwater Production Inc.



One Shell Square
PO Box 60833
New Orleans LA 70160-0833
(504) 728-6161

March 12, 2001

Regional Supervisor
Office of Field Operations
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, LA 70123-2394

Dear Sir:

SUBJECT: SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT
MISSISSIPPI CANYON BLOCK 807 FIELD
OCS-G 7963 , MISSISSIPPI CANYON BLOCK 807
OCS-G 8852, MISSISSIPPI CANYON BLOCK 764
OFFSHORE LOUISIANA
MARS / KING AREA

In compliance with 30 CFR 250.204 and NTL 2000-G10 giving DOCD guidelines, Shell Deepwater Production Inc. (SDPI) requests your approval for the attached Supplemental Development Operations Coordination Document (DOCD) for the subject area. Activities proposed under this DOCD may commence as early as April 15, 2001.

The H&P 201 Rig presently located on the Mississippi Canyon (MC) 807 A Platform (Mars) has commenced drilling the OCS-G 7958, MC 763, A-19 well that is approved in DOCD N4980 on March 23, 1995 for Mississippi Canyon Block 807 Unit. By approximately April 15, 2001 SDPI will decide whether or not to amend the A-19 well application to a bottom hole location in MC Block 764, OCS-G 8852. At a later date a second well could also be drilled from the MC 807 A Platform to a bottom hole location in MC Block 764 .

The Initial DOCD for MC 764 was approved as N6486 on August 10, 1999. Your approval is requested to supplement this approved plan for two additional bottom hole locations as described above. As the proposed surface locations were previously approved under DOCD N4980 for MC 807 Unit, shallow hazard and chemosynthetic information is not being resubmitted with this supplemental plan.

This Plan consists of a series of attachments describing details of our intended operations. The attachments we desire to be exempted from disclosure under the Freedom of Information Act are marked "Confidential". SDDI requests the indicated data remain confidential and for U.S. Government Use only.

Should you require additional information please contact me via phone at (504) 728-7215, via fax at (504) 728-8076 or via email me at sbellone@shell.com.

Yours very truly,

Sylvia A. Bellone
Regulatory Affairs

Attachments

PUBLIC INFORMATION

CONTROL No. 5-5589
REVIEWER: Michelle Griffitt
PHONE: (504) 736-2975

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT
MISSISSIPPI CANYON BLOCK 807 FIELD
OCS-G 7963 , MISSISSIPPI CANYON BLOCK 807
OCS-G 8852, MISSISSIPPI CANYON BLOCK 764
OFFSHORE LOUISIANA
MARS/KING AREA

ATTACHMENT	DESCRIPTION
1	Index
2	Description of Activities and Activity Schedule
3	Surface Locations and Bathymetry
3A	Surface Location Table
4	Safety and Pollution Equipment, Description of Platform, & Support Base/Vessel Description
5	Location of Lease and Onshore Facilities Plat
6	History of Lease, Lease Stipulations and Bonding Information
7*	Bottom Hole Locations
7A*	Bottom Hole Locations Table
8*	Geological Objective, New or Unusual Technology, Hydrogen Sulfide, and Production Rates
9A & 9B*	Structure Maps
10*	Geologic Cross Sections
11A, 11B, & 11C*	Seismic Lines (Original only)
12	Discharge Volumes
13	Oil Spill Response Information
14	Projected Air Emissions

* Confidential (Original plus nine copies with five copies marked Public Information)

ATTACHMENT 1

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT
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OCS-G 7963 , MISSISSIPPI CANYON BLOCK 807
OCS-G 8852, MISSISSIPPI CANYON BLOCK 764
OFFSHORE LOUISIANA
MARS/KING AREA

DESCRIPTION OF ACTIVITIES

Under the proposed DOCD, SDPI plans to drill, complete and produce two wells from the existing MC 807 A Platform to bottom hole locations in MC 764. The surface locations are previously approved.

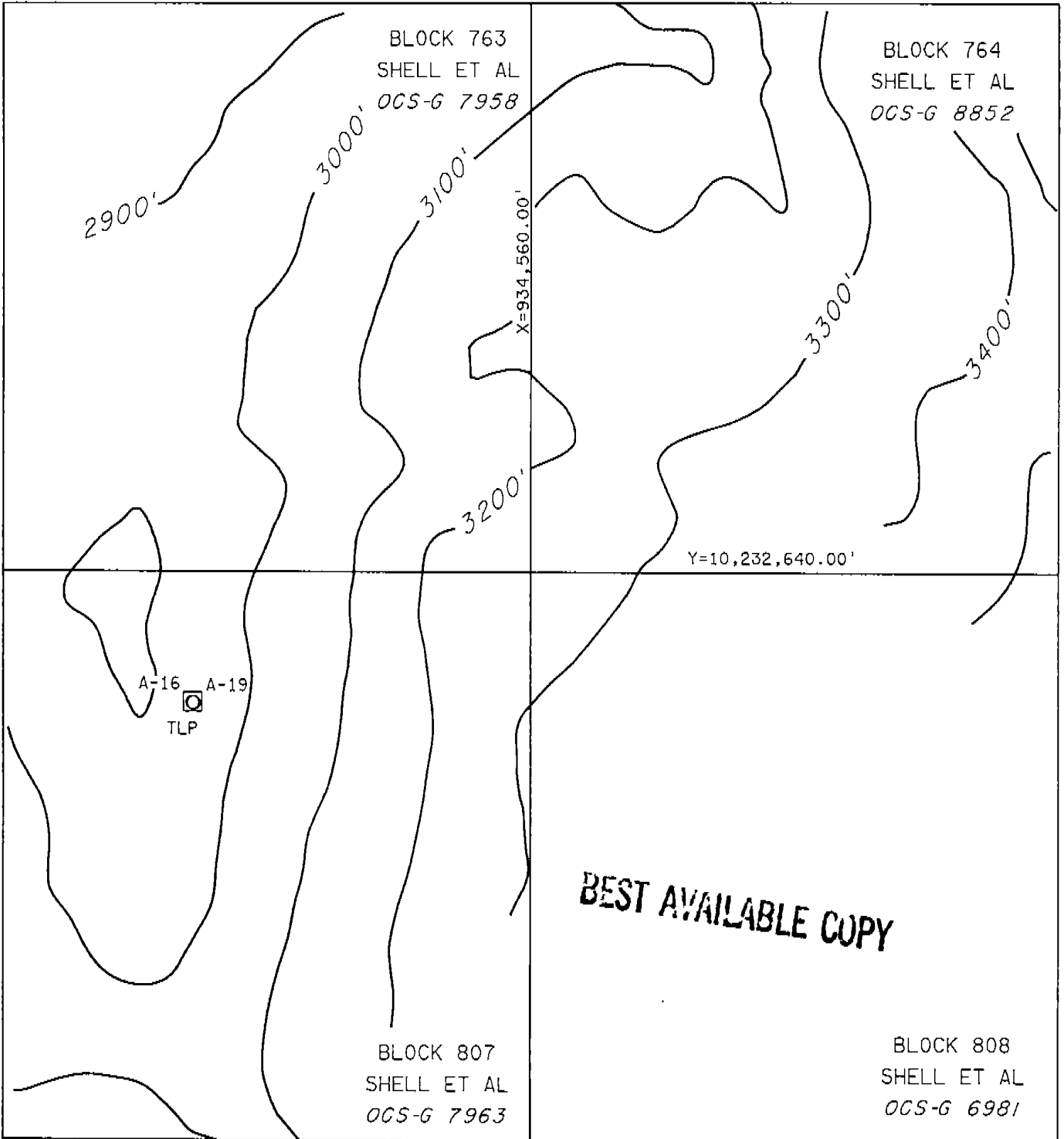
ACTIVITY SCHEDULE

The sidetrack of the first well is planned to commence approximately April 15, 2001. Drilling and completion of the first well is expected to take approximately 90 days with production expected in July 15, 2001

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X= 918,720.00'
Y=10,248,480.00'

X= 950,400.00'
Y=10,248,480.00'



X= 918,720.00'
Y=10,216,800.00'

X= 950,400.00'
Y=10,216,800.00'

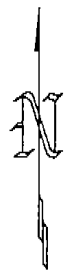
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○ PROPOSED SURFACE LOCATIONS

- A-16 5651' FWL & 3642' FNL OF BLK. 807
X=924,371.00' Y=10,228,998.00'
- A-19 5694' FWL & 3657' FNL OF BLK. 807
X=924,414.00' Y=10,228,983.00'

□ TLP LOCATION

- 5653' FWL & 3630' FNL OF BLK. 807
X=924,373.00' Y=10,229,010.00'



ATTACHMENT 3

SHELL

**PROPOSED SURFACE LOCATIONS & BATHYMETRY
D.O.C.D.**

- SHELL ET AL OCS-G 7958, BLOCK 763
- SHELL ET AL OCS-G 8852, BLOCK 764
- SHELL ET AL OCS-G 7963, BLOCK 807
- SHELL ET AL OCS-G 6981, BLOCK 808

**MISSISSIPPI CANYON AREA
MISSISSIPPI CANYON BLOCK 807 FIELD**

OFFSHORE LOUISIANA



SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT
MISSISSIPPI CANYON BLOCK 807 FIELD
OCS-G 7963 , MISSISSIPPI CANYON BLOCK 807
OCS-G 8852, MISSISSIPPI CANYON BLOCK 764
OFFSHORE LOUISIANA
MARS/KING AREA

OCS PLAN INFORMATION FORM

(USE SEPARATE FORM FOR EACH LEASE)

EXPLORATION PLAN	DEVELOPMENT OPERATIONS COORDINATION DOCUMENT	X	DEVELOPMENT & PRODUCTION PLAN
OPERATOR: Shell Deepwater Production Inc		ADDRESS: P. O. Box 60834	
MMS OPERATOR NO.: 2140		New Orleans, LA 70160-0834	
CONTACT PERSON: Sylvia Bellone		PHONE NO. (504) 728-7215	
PROPOSED START DATE:	RIG TYPE: PF	DISTANCE TO CLOSEST LAND (IN MILES): 52	
NEW OR UNUSUAL TECHNOLOGY	YES	NO X	ONSHORE SUPPORT BASE(S): Venice, LA
NARRATIVE DESCRIPTION OF PROPOSED ACTIVITIES: Drill and complete one or two wells from surface locations on the Mars TLP in MC 807 to a BHL in MC764. Second well contingent on the results of the first well.			
PROJECT NAME, IF APPLICABLE:			
WELL/ STRUCTURE NAME	SURFACE LOCATION	BOTTOM-HOLE LOCATION (FOR WELLS)	
Platform __ or Well __ Name: A-19	CALLS: 10,146' F E L and 3,657' F N L OF LEASE OCS-G 7963, Mississippi Canyon AREA, BLOCK 807		
	X: 924,414 _____ Y: 10,228,983 _____		
	LAT: 28.16945151 LONG -89.22274738		
	TVD(IN FEET): _____ MD (IN FEET): _____	WATER DEPTH (IN FEET): 2940'	
Platform __ or Well __ Name: A-16	CALLS: 10,189' F E L and 3,642' F N L OF LEASE OCS-G 7963, Mississippi Canyon AREA, BLOCK 807		
	X: 924,371 _____ Y: 10,228,998 _____		
	LAT: 28.16949058 LONG: -89.22288164		
	TVD(IN FEET): _____ MD (IN FEET): _____	WATER DEPTH (IN FEET): 2940'	
Platform __ or Well __ Name: _____	CALLS: _____ F __ L and _____ F __ L OF LEASE OCS _____, _____ AREA, BLOCK _____	CALLS: _____ F __ L and _____ F __ L OF LEASE OCS _____, _____ AREA, BLOCK _____	
	X: _____ Y: _____	X: _____ Y: _____	
	LAT: _____ LONG: _____	LAT: _____ LONG: _____	
	TVD(IN FEET): _____ MD (IN FEET): _____	WATER DEPTH (IN FEET): _____	
Platform __ or Well __ Name: _____	CALLS: _____ F __ L and _____ F __ L OF LEASE OCS _____, _____ AREA, BLOCK _____	CALLS: _____ F __ L and _____ F __ L OF LEASE OCS _____, _____ AREA, BLOCK _____	
	X: _____ Y: _____	X: _____ Y: _____	
	LAT: _____ LONG: _____	LAT: _____ LONG: _____	
	TVD(IN FEET): _____ MD (IN FEET): _____	WATER DEPTH (IN FEET): _____	

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT
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OFFSHORE LOUISIANA
MARS/KING AREA

DESCRIPTION OF SAFETY AND POLLUTION PREVENTION EQUIPMENT

Safety features on the platforms will include well control and blowout prevention equipment as described in 30 CFR Part 250. The appropriate life rafts, life jackets, ring buoys, etc., as prescribed by the U.S. Coast Guard, will be maintained on the facility at all times. In addition, the rig and platform will be equipped with typical pollution control equipment including, but not limited to, deck drains, sumps, drip pans and sewage treatment facilities.

The goal of this development program is the gathering of information on the productivity of the leased area, in a safe manner, with minimal disruption of the environment. Production operations will be conducted by qualified SDPI representatives. Regular training of operations personnel is a necessary complement to the pollution prevention features in the design of equipment and operations.

The H&P 201 Rig we plan to use will comply with all of the regulations of the American Bureau of Shipping (ABS), International Maritime Organization (IMO), and the United States Coast Guard (USCG).

DESCRIPTION OF PLATFORM

SDPI will drill the two proposed wells from the existing MC Block 807 A Platform (Mars). No expansion to the existing TLP is anticipated as a result of the addition of these wells.

Production will flow via an existing 14" gas sales line and an 18" liquid sales line from the MC 807 A Platform.

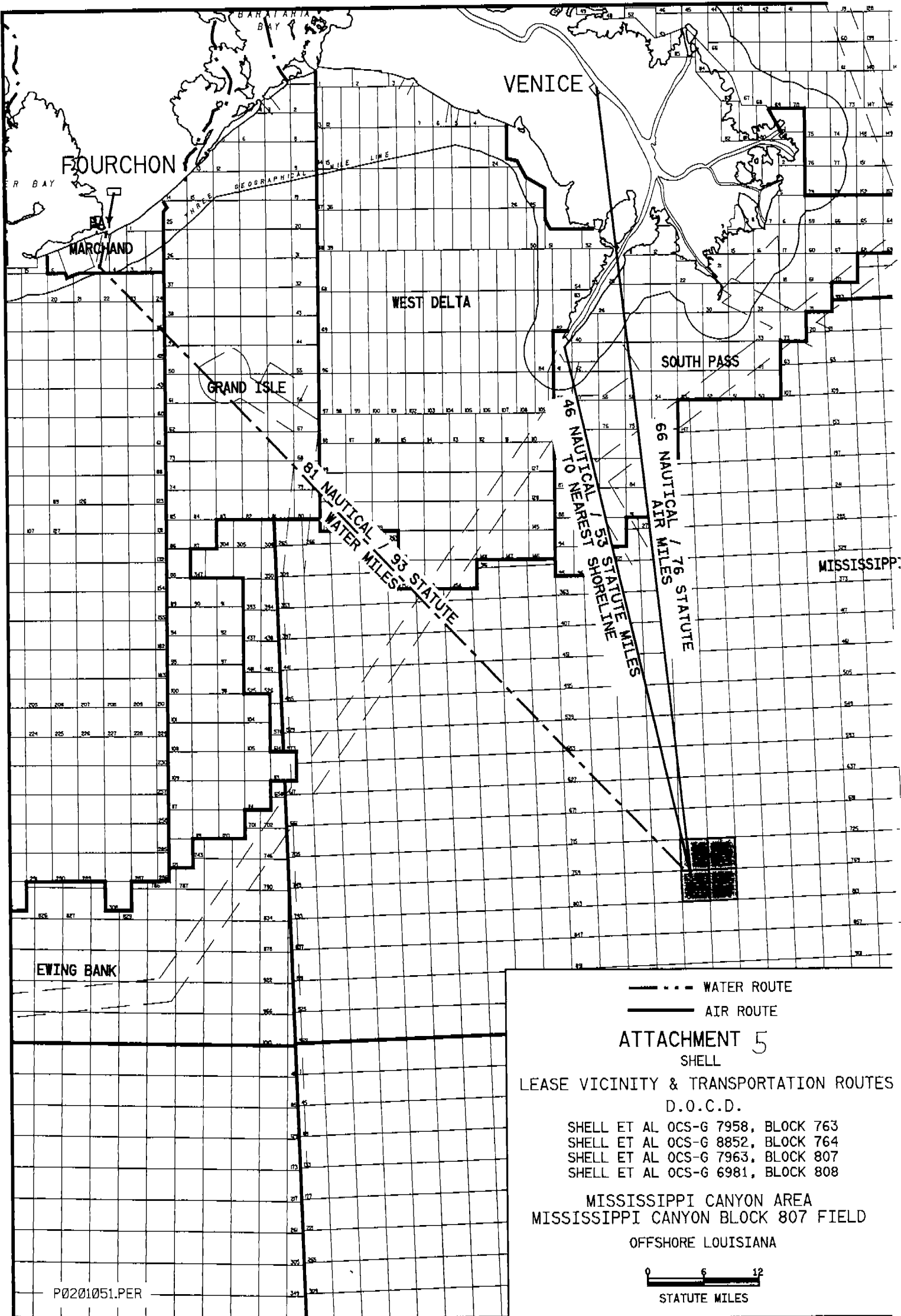
ONSHORE BASE AND SUPPORT VESSELS

Mississippi Canyon Block 807 is located approximately 53 miles from the nearest Louisiana coastline and approximately 93 water miles from the existing Fouchon Terminal located south of Leesville, Louisiana and 76 air miles from the existing Venice Terminal located in Venice, Louisiana. No expansion of the terminals will be required for the proposed activity.

<u>Vessel</u>	<u>Production Activities</u>
Helicopter	6 trips per week
Work Boats	4 trips per week

ATTACHMENT 4

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FOURCHON

VENICE

WEST DELTA

SOUTH PASS

GRAND ISLE

MISSISSIPPI

EWING BANK

--- WATER ROUTE
 — AIR ROUTE

ATTACHMENT 5
 SHELL

LEASE VICINITY & TRANSPORTATION ROUTES
 D.O.C.D.

- SHELL ET AL OCS-G 7958, BLOCK 763
- SHELL ET AL OCS-G 8852, BLOCK 764
- SHELL ET AL OCS-G 7963, BLOCK 807
- SHELL ET AL OCS-G 6981, BLOCK 808

MISSISSIPPI CANYON AREA
 MISSISSIPPI CANYON BLOCK 807 FIELD
 OFFSHORE LOUISIANA



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OFFSHORE LOUISIANA
MARS/KING AREA

HISTORY OF LEASE

Lease OCS-G 8852 (MC 764) was acquired on April 22, 1987 at Gulf of Mexico Lease Sale No. 110 by Vastar. SDPI drilled and completed the OCS-G 8852 No. 4 well as a producing oil well as of April 6, 2000.

LEASE STIPULATIONS

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

MC 764 and MC 807 are not identified as having a high probability for prehistoric archeological resources, historic period shipwrecks and are not part of any Biologically Sensitive Area. They are not located in a Shipping Fairway or Military Warning Area.

BONDING REQUIREMENTS

SDPI 's area wide bond coverage is \$3,000,000 and complies with the letter to lessees and Operators dated November 5, 1993 (30 CFR Part 256).

ATTACHMENT 6

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SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT
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 MARS/KING AREA

DISCHARGES

Solid domestic and hazardous waste will be transported to shore for proper disposal at an authorized disposal site. Sewage will be treated on location by USCG approved marine sanitation devices. Victual Waste will be discharged overboard in accordance with U.S. Coast Guard regulations.

Volumes will be calculated based on past volumes, times days on location, times average number of people. Hazardous Waste will be minimal quantities of paint solvents as necessary.

Deck drainage will be discharged overboard and estimated based on average rainfall for the locaiton.

EPA Region VI will be advised prior to and upon completion of discharges for the proposed completion and production operations addressed in this Plan.

Produced water, WTC fluids, hydrate inhibitors, and corrosion inhibitors will be used as necessary and will be discharged from the platform. The discharge will be monitored to ensure the absence of a sheen, and all testing will be performed as required by EPA Permit No. GMG 290000. Discharges will contain no free oil and will be in compliance with and monitored as required by the permit.

All mud and cuttings will be discharged in compliance with the NPDES General Permit GMG 290103 for Discharge of Effluents. No fluids containing free oil will be will be discharged. Daily discharge rates will vary over the life of the well. Assume that the discharge rate is uniform over the life of the well.

Cuttings volume is calculated hole volume times 4.

Mud Volume discharged is calculated hole volume times 11. Values taken from Walk, Haydel and Associates Inc study (1988).

RKB to MSL 192 '
 Water Depth 2945 '

 RKB to ML 3137 '
 Pre-Drill Depth 5485 '

Measured Depth (Ft)	Depth BML (Ft)	Casing Size (in)	Hole Size (in)	Interv al Lengt h (Ft)	Hole Volume (bbls)	Cuttings Volume (bbls)	Mud Volume (bbls)	Mud Type
7210	4073	16.000	20.00	1725	670	2681	2681	WBM
16554	13417	11.750	14.50	9344	1908	3817	7634	SBM
23686	20549	9.625	12.25	7132	1040	2079	4159	SBM
27128	23991	7.000	8.50	3442	242	483	966	SBM
TOTALS				21643	3860	9061	15440	

ATTACHMENT 12

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 OFFSHORE LOUISIANA
 MARS/KING AREA

OIL SPILL RESPONSE INFORMATION

In accordance with the requirements for Development and Production Plans specified in TITLE 30 CFR PART 250 Subpart B Section 250.204 (b) (3) of the Code of Federal Regulations, we request that the Shell Offshore Companies Regional Response Plan (RRP), as approved May 18, 1999 be accepted as the Oil Spill Contingency Plan for this development operation. The RRP includes Shell Offshore Inc., Shell Deepwater Development, Inc., Shell Deepwater Production, Inc., Shell Deepwater Development Systems, Int., & Equilon Pipelines. Please note that the RRP includes the Shell Offshore Inc. "Environmental Sensitivities" and "Shoreline Protection Callout Summary" manuals. Copies of the RRP are available for review in the Shell Offshore Inc. Regulatory Affairs Library in New Orleans and at the MMS Field Operations Gulf of Mexico OCS Region office. OSRO information can be found in the above referenced plan.

Category	Regional OSRP	EP or DOCD
Type of Activity ¹	Platform (TLP)	DOCD Platform (TLP)
Facility Location (area/block)	MC 809	MC 807
Facility Designation ²	A Platform	Mars A Platform
Distance to Nearest Shoreline (miles)	56	53
Volume ³		
Storage tanks (total)	3321 Bbls	2438 Bbls
Flowlines (on facility)	100 Bbls	100 Bbls
Lease term pipelines	1000 Bbls	1000 Bbls
Uncontrolled blowout (volume per day)	116,000 BOPD	40,943 BOPD
Total Volume	120,420*	44,481*
Type of Oil(s) - (crude oil, condensate, diesel)	Crude oil	Crude oil
API Gravity(s) ⁴	28°	31.5°

Footnotes:

1. Types of activities include pipeline, platform, caisson, subsea completion or manifold, and mobile drilling rig.
2. E.g., Well No. 2, Platform JA, Pipeline Segment No. 6373.
3. Your regional OSRP worst-case scenario volume must be taken from the appropriate section of your regional OSRP. For EP's, the worst-case scenario volume must be determined by using the daily worst-case discharge volume determined using the guidance at 30 CFR 254.47(b). For DOCD's, the daily worst-case discharge volume must be determined by using the guidance at 30 CFR 254.47 (a) and/or (b), as appropriate.
4. Provide API gravity of all oils given under "Type of Oil(s)" above. Estimate for EP's.

***NOTE: TOTAL VOLUME IS FOR DAY ONE OF SPILL SCENARIO.**

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DOCD AIR QUALITY SCREENING CHECKLIST

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	Shell Exploration & Production Inc
AREA	Mississippi Canyon
BLOCK	763, 764, 807 A, 890, 934
LEASE	OCS-G 7958, 7962, 7963, 7969, 7975, 8852
PLATFORM	TLP & RIG
WELL	
COMPANY CONTACT	Mark Kosiara
TELEPHONE NO.	728-6093
REMARKS	Sulfur Content Source factor for fuel gas used: 2.00 ppm/Wt. (based on test analysis from another deepwater field.) Glycol still vent - if VRU is not working emissions go to flare. Flare volume was based on year 2000 actual data. Drilling and completion emissions are included for only three years, based upon current development plans.

"Yes"	"No"	Air Quality Screening Questions
	X	1. Is the concentration of H ₂ S expected greater than 20 ppm?
	X	2. Is the burning of produced liquids proposed?
	X	3. Is gas flaring or venting which would require Regional Supervisor of Production and Development approval under Subpart K proposed?
X		4. Does the facility process production from 8 or more active wells?
X		5. Is the facility within 200km of the Breton Area?
X		6. Will the proposed activity be collocated at (same surface location), or bridge attached to, a previously approved facility?
	X	7. Is the proposed activity within 25 miles of shore?
	X	8. Are semi-submersible activities involved and is the facility within 75 miles of shore?
	X	9. Are drillship operations involved and is the facility within 145 miles of shore?

If ALL questions are answered "No":

Fill in the information below about your lease term pipelines and submit only this coversheet with your plan.

If ANY question is answered "Yes":

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

LEASE TERM PIPELINE CONSTRUCTION INFORMATION:		
YEAR	NUMBER OF PIPELINES	TOTAL NUMBER OF CONSTRUCTION DAYS
1999	0	
2000	0	
2001	0	
2002	0	
2003	0	
2004	0	
2005	0	
2006	0	
2007	0	
2008	0	
2009	0	

Attachment 14

AIR EMISSION CUMPUTATION FACTORS

OMB Control No. xxxx-xxxx

Expiration Date: Pending

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	Particulate Matter (PM)	SOx	NOx	VOC	CO	REF.	DATE
NG Turbines	gms/hp-hr		0.00148	1.3	0.01	0.83	AP42 3.2-1& 3.1-1	10/96
NG 2-cycle lean	gms/hp-hr		0.00111	10.9	0.43	1.5	AP42 3.2-1	10/96
NG 4-cycle lean	gms/hp-hr		0.00111	11.8	0.72	1.6	AP42 3.2-1	10/96
NG 4-cycle rich	gms/hp-hr		0.00111	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	0.356	100	5.5	84	AP42 1.4-1, 14-2, & 14-3	7/98
NG Flares	lbs/mmscf		0.356	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	2.00	ppm
Diesel Fuel	0.4	% weight
Produced Gas(Flares)	2.00	ppm
Produced Oil (Liquid Flaring)	1	% weight

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AIR EMISSION CALCULATIONS - FIRST YEAR

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCKS	LEASES	PLATFORM	WELLS	CONTACT	PHONE	REMARKS									
Shell Exploration & Production Inc	Mississippi Canyon	763, 764, 807 A, 890, 934	OCS-G 7958, 7962, 7963, 7989, 7975, 8852	TLP & RIG		Mark Kostara	728-6093										
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR					ESTIMATED TONS PER YEAR					
	Diesel Engines	HP	GAL/HR	GAL/D			PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO	
	Nat. Gas Engines	HP	SCF/HR	SCF/D			PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO	
	Barriers	MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO	
DRILLING	PRIME MOVER>600hp	1900	91.77	2202.48	24	365	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99	
	PRIME MOVER>600hp	1900	91.77	2202.48	24	365	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99	
	PRIME MOVER>600hp	1900	91.77	2202.48	24	365	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99	
VESSELS	VESSELS>600hp diesel (fast supply)	6,600	319	7,651	5	229	4.65	21.34	159.91	4.80	34.89	2.66	12.22	91.55	2.75	19.97	
	VESSELS>600hp diesel (supply)	3,420	165	3,964	10	114	2.41	11.06	82.86	2.49	18.08	1.37	6.30	47.23	1.42	10.31	
PRODUCTION	RECIP.>600hp diesel Crane #1	650	31.395	753	6	365	1.43	2.10	20.04	1.60	4.34	1.57	2.30	21.95	1.76	4.75	
	RECIP.>600hp diesel Crane #2	650	31.4	753	6	365	0.46	2.10	15.75	0.47	3.44	0.50	2.30	17.25	0.52	3.76	
	RECIP.>600hp diesel Crane #3	650	31.4	753	16	365	0.46	2.10	15.75	0.47	3.44	1.34	6.14	45.99	1.38	10.03	
	RECIP.>600hp diesel Emerg. Gen.	650	31.4	753	2	56	0.46	2.10	15.75	0.47	3.44	0.03	0.12	0.88	0.03	0.19	
	RECIP.>600hp diesel FW PBE-271	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18	
	RECIP.>600hp diesel FW PBE-272	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18	
	TURBINE nat gas ZAN-701	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas ZAN-702	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas ZAN-703	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas ZAN-704	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas FGC #1	15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11	
	TURBINE nat gas FGC #2	15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11	
	RECIP. 2 cycle lean nat gas	0	0	0	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 FGC #2	0	0	0	24	365	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 VRU	0	0	0	24	365	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 (Vapor Rec.)	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	FLARE - All TLP Flares (Notes 1)		454,681		4.73	365	0.00	0.16	32.46	27.42	176.64	0.00	0.14	28.05	23.69	152.62	
	PROCESS VENT (None)		0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	FUGITIVES flange pairs			6,000		365	0.00	0.00	0.00	3.00	0.00	0.00	0.00	13.14	0.00	0.00	
	GLYCOL STILL VENT (Vapor Rec.)		0		0	0	0.00	0.00	0.00	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	
WELL TEST	GAS FLARE	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2001 YEAR TOTAL							56.53	63.80	681.65	47.11	389.49	208	111	1602	69	808	
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											1,732	1,732	1,732	1,732	47,368	
	52.0																

BEST AVAILABLE COPY

AIR EMISSIONS CALCULATIONS - SECOND YEAR

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCKS	LEASES	PLATFORM	WELLS	CONTACT	PHONE	REMARKS									
Shell Exploration & Production Inc.	Mississippi Canyon	763 794, 807 A 880, 934	OCS-G 7958, 7962, 7963, 7969 7975, 8852	TLP & RIG		Mark Kistner	728-6093										
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR					ESTIMATED 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/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO	
DRILLING	PRIME MOVER>600hp	1900	91.77	2202.48	24.00	365.00	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99	
	PRIME MOVER>600hp	1900	91.77	2202.48	24.00	365.00	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99	
	PRIME MOVER>600hp	1900	91.77	2202.48	24.00	365.00	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99	
VESSELS	VESSELS>600hp diesel (fast supply)	6,600	319	7,651	5	229	4.65	21.34	159.91	4.80	34.89	2.66	12.22	81.55	2.75	19.97	
	VESSELS>600hp diesel (supply)	3,420	165	3,904	10	114	2.41	11.06	82.86	2.49	18.08	1.37	6.30	47.23	1.42	10.31	
PRODUCTION	RECIP.>400hp diesel Crane #1	650	31.395	753	6	365	1.43	2.10	20.04	1.60	4.34	1.57	2.30	21.95	4.75		
	RECIP.>400hp diesel Crane #2	650	31.4	753	6	365	0.46	2.10	15.75	0.47	3.44	0.50	2.30	17.25	0.52	3.76	
	RECIP.>600hp diesel Crane #3	650	31.4	753	16	365	0.46	2.10	15.75	0.47	3.44	1.34	8.14	45.99	1.38	10.03	
	RECIP.>600hp diesel Emerg. Gen.	650	31.4	753	2	56	0.46	2.10	15.75	0.47	3.44	0.03	0.12	0.88	0.03	0.19	
	RECIP.>600hp diesel FW PBE-271	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18	
	RECIP.>600hp diesel FW PBE-272	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18	
	TURBINE nat gas ZAN-701	7,300	69,525	1,688,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas ZAN-702	7,300	69,525	1,688,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas ZAN-703	7,300	69,525	1,688,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas ZAN-704	7,300	69,525	1,688,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45	
	TURBINE nat gas FGC #1	15,000	142,880	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	189.13	1.45	120.11	
	TURBINE nat gas FGC #2	15,000	142,880	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	189.13	1.45	120.11	
	RECIP. 2 cycle lean nat gas	0	0	0	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 FGC #2	0	0	0	24	365	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 VRU	0	0	0	24	365	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 (Vapor Rec.)	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	FLARE - All TLP Flares (Note 1)		454,681		4.73	365	0.00	0.16	32.46	27.42	178.64	0.00	0.14	28.05	23.69	152.62	
	PROCESS VENT (None)		0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	FUGITIVES flange pairs			6,000		365	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	13.14	0.00	
	GLYCOL STILL VENT (Vapor Rec.)		0		0	0	0.00	0.00	0.00	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	
WELL TEST	GAS FLARE	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2002 YEAR TOTAL																	
							56.53	83.80	881.85	47.11	389.49	208	111	1602	67	808	
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											1,732	1,732	1,732	1,732	47,368	
	52.0																

Notes: 1) 4.73 HR/D "RUN TIME" is a daily average based on flaring 144 HR/MO, 12 MO/YEAR.

AIR EMISSIONS CALCULATIONS - THIRD YEAR

OMB Control No. XXXX-XXXX
Expiration Date: Pending

COMPANY	AREA	BLOCKS	LEASES	PLATFORM	WELLS	CONTACT	PHONE	REMARKS								
Shell Exploration & Production Inc	Miaalesipi Canyon	783, 784, 807 A, 800 934	OCS-0 7958, 7962, 7963, 7969 7975, 8852	TLP & RIG		Mark Koorara	728-6093									
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN TIME	MAXIMUM POUNDS PER HOUR					ESTIMATED TONS PER YEAR					
	Diesel Engines	HP	GAL/HR	GAL/D		PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO	
	Nat. Gas Engines	HP	SCF/HR	SCF/D	HR/D	DAYS/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
	Burners	MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
DRILLING	PRIME MOVER>600hp	1900	91.77	2202.48	24	365	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99
	PRIME MOVER>600hp	1900	91.77	2202.48	24	365	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99
	PRIME MOVER>600hp	1900	91.77	2202.48	24	365	1.34	6.14	46.04	1.38	10.04	5.87	26.91	201.63	6.05	43.99
VESSELS	VESSELS>600hp diesel (fast supply)	6,600	319	7,651	5	229	4.65	21.34	159.91	4.80	34.89	2.66	12.22	91.55	2.75	19.97
	VESSELS>600hp diesel (supply)	3,420	165	3,964	10	114	2.41	11.06	82.66	2.49	18.08	1.37	6.30	47.23	1.42	10.31
PRODUCTION	RECIP.>600hp diesel Crane #1	650	31.4	753	6	365	0.46	2.10	15.75	0.47	3.44	0.50	2.30	17.25	0.52	3.76
	RECIP.>600hp diesel Crane #2	650	31.4	753	16	365	0.46	2.10	15.75	0.47	3.44	1.34	6.14	45.99	1.38	10.03
	RECIP.>600hp diesel Crane #3	650	31.4	753	2	56	0.46	2.10	15.75	0.47	3.44	0.03	0.12	0.88	0.03	0.19
	RECIP.>600hp diesel Emerg. Gen.	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18
	RECIP.>600hp diesel FW PBE-271	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18
	RECIP.>600hp diesel FW PBE-272	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18
	TURBINE nat gas ZAN-701	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45
	TURBINE nat gas ZAN-702	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45
	TURBINE nat gas ZAN-703	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45
	TURBINE nat gas ZAN-704	7,300	69,525	1,668,605	24	365	5.15	0.02	20.90	0.16	13.35	22.54	0.10	91.56	0.70	58.45
	TURBINE nat gas FGC #1	15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11
	TURBINE nat gas FGC #2	15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11
	RECIP. 2 cycle lean nat gas	0	0	0	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 FGC #2	0	0	0	0	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	RECIP. 4 cycle rich nat gas VRU	0	0	0	0	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.	BPD	SCF/HR	COUNT												
	TANK (Vapor Rec.)	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	FLARE - All TLP Flares (Note 1)		454,681		4.73	365	0.00	0.18	32.46	27.42	176.64	0.00	0.14	28.05	23.69	152.62
	PROCESS VENT (None)		0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	FUGITIVES flange pairs			6,000	0	365	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	13.14	0.00
	GLYCOL STILL VENT (Vapor Rec.)		0		0	0	0.00	0.00	0.00	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
WELL TEST	GAS FLARE	0	0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003 YEAR TOTAL												208	111	1602	67	808
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											1,732	1,732	1,732	1,732	47,368
	52.0															

Notes: 1) 4.73 HR/D "RUN TIME" is a daily average based on flaring 144 HR/MO, 12 MO/YEAR.

BEST AVAILABLE COPY

AIR EMISSIONS CALCULATIONS - FOURTH YEAR

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCKS	LEASES	PLATFORM	WELLS	CONTACT	PHONE	REMARKS								
Shell Exploration & Production Inc	Mississippi Canyon	763, 764, 807 A, 800, 934	OCS-G 7958, 7962, 7963, 7969 7975, 8852	TLP & RIG		Mark Koelers	728-6093									
OPERATIONS	EQUIPMENT	RATING	MAX. FUEL	ACT. FUEL	RUN TIME	MAXIMUM POUNDS PER HOUR					ESTIMATED TONS PER YEAR					
	Diesel Engines	HP	GAL/HR	GAL/D		PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO	
	Nat. Gas Engines	HP	SCF/HR	SCF/D		PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO	
VESSELS	VESSELS	MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
		MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
PRODUCTION	VESSELS>600hp diesel (fast supply)	6,600	319	7,851	5	229	4.65	21.34	159.91	4.80	34.89	2.56	12.22	91.55	2.75	19.97
	VESSELS>800hp diesel (supply)	3,420	185	3,964	10	114	2.41	11.06	82.86	2.49	18.08	1.37	6.30	47.23	1.42	10.31
	RECIP.>600hp diesel Crane #1	650	31,395	753	6	365	1.43	2.10	20.04	1.60	4.34	1.57	2.30	21.95	1.78	4.75
	RECIP.>600hp diesel Crane #2	650	31.4	753	6	365	0.46	2.10	15.75	0.47	3.44	0.50	2.30	17.25	0.52	3.76
	RECIP.>600hp diesel Crane #3	650	31.4	753	16	365	0.46	2.10	15.75	0.47	3.44	1.34	6.14	45.89	1.38	10.03
	RECIP.>600hp diesel Emerg. Gen.	650	31.4	753	2	56	0.46	2.10	15.75	0.47	3.44	0.03	0.12	0.88	0.03	0.19
	RECIP.>600hp diesel FW PBE-271	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.16
	RECIP.>600hp diesel FW PBE-272	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.16
	TURBINE nat gas ZAN-701	7,300	69,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.06	68.67	0.53	43.84
	TURBINE nat gas ZAN-702	7,300	69,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.06	68.67	0.53	43.84
	TURBINE nat gas ZAN-703	7,300	69,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.06	68.67	0.53	43.84
	TURBINE nat gas ZAN-704	7,300	69,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.06	68.67	0.53	43.84
	TURBINE nat gas FGC #1	15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11
	TURBINE nat gas FGC #2	15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11
	RECIP. 2 cycle lean nat gas	0	0	0	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 FGC #2	0	0	0	0	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	RECIP. 4 cycle rich nat gas VRU	0	0	0	0	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.	BPD	SCF/HR	COUNT	HR/D	DAYS/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
		TANK (Vapor Rec.)	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		FLARE - All TLP Flares (Note 1)		454,881		4.72	365	0.00	0.16	32.46	27.42	176.84	0.00	0.14	27.97	23.62
PROCESS VENT (None)			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FUGITIVES flange pairs				8,000		365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.14	0.00
GLYCOL STILL VENT (Vapor Rec.)			0		0	0	0.00	0.00	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	
WELL TEST	GAS FLARE	0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2004 YEAR TOTAL																
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES										1,732	1,732	1,732	1,732	47,368	
	52.0															

Notes: 1) 4.72 HR/D "RUN TIME" is a daily average based on flaring 144 HR/MO, 12 MO/YEAR.

BEST AVAILABLE COPY

AIR EMISSIONS CALCULATIONS - FIFTH YEAR

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCKS	LEASES	PLATFORM	WELLS	CONTACT	PHONE	REMARKS										
Shell Exploration & Production Inc	Mississippi Canyon	763, 764, 807 A, 890, 904	OCS-G 7998, 7962, 7963 7969 7975, 8352	TLP & RIG		Mark Kosiara	728-8093											
OPERATIONS	EQUIPMENT	RATING		MAX. FUEL		ACT. FUEL		RUN TIME	MAXIMUM POUNDS PER HOUR					ESTIMATED TONS PER YEAR				
		HP	GAL/HR	SCF/HR	SCF/D	HR/D	DAYS/YEAR		PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO
VESSELS	VESSELS->600hp diesel (fast supply)	MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS/YEAR	PM	SOx	NOx	VOC	CO	PM	SOx	NOx	VOC	CO		
		6,600	319	7,651	5	229	4.65	21.34	159.91	4.80	34.89	2.66	12.22	91.55	2.75	19.97		
PRODUCTION	VESSELS->600hp diesel (supply)	3,420	185	3,864	10	114	2.41	11.06	82.86	2.49	18.08	1.37	6.30	47.23	1.42	10.31		
		650	31.395	753	6	365	1.43	2.10	20.04	1.60	4.34	1.57	2.30	21.95	1.76	4.75		
PRODUCTION	RECIP->600hp diesel Crane #1	650	31.4	753	6	365	0.46	2.10	15.75	0.47	3.44	0.50	2.30	17.25	0.52	3.76		
		650	31.4	753	16	365	0.46	2.10	15.75	0.47	3.44	1.34	6.14	45.99	1.38	10.03		
PRODUCTION	RECIP->600hp diesel Crane #2	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.03	0.12	0.88	0.03	0.19		
		650	31.4	753	16	365	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18		
PRODUCTION	RECIP->600hp diesel Emerg. Gen.	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18		
		650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18		
PRODUCTION	RECIP->600hp diesel FW PBE-271	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18		
		650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18		
PRODUCTION	RECIP->600hp diesel FW PBE-272	650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18		
		650	31.4	753	2	52	0.46	2.10	15.75	0.47	3.44	0.02	0.11	0.82	0.02	0.18		
PRODUCTION	TURBINE nat gas ZAN-701	7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
		7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
PRODUCTION	TURBINE nat gas ZAN-702	7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
		7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
PRODUCTION	TURBINE nat gas ZAN-703	7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
		7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
PRODUCTION	TURBINE nat gas ZAN-704	7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
		7,300	89,525	1,668,605	18	365	5.15	0.02	20.90	0.16	13.35	16.90	0.08	68.67	0.53	43.84		
PRODUCTION	TURBINE nat gas FGC #1	15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11		
		15,000	142,860	3,428,640	24	365	10.57	0.05	42.95	0.33	27.42	46.31	0.21	188.13	1.45	120.11		
PRODUCTION	TURBINE nat gas FGC #2	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
PRODUCTION	RECIP. 2 cycle lean nat gas	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
PRODUCTION	RECIP. 4 cycle lean nat gas FGC #2	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
PRODUCTION	RECIP. 4 cycle rich nat gas VRU	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
MISC	TANK (Vapor Rec)	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
MISC	FLARE - All TLP Flares (Note 1)	0	454,681	0	473	365	0.00	0.16	32.46	27.42	176.64	0.00	0.14	28.05	23.69	152.82		
		0	0	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	
MISC	PROCESS VENT (None)	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
MISC	FUGITIVES flange pairs	0	0	6,000	0	365	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	13.14	0.00		
		0	0	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	
MISC	GLYCOL STILL VENT (Vapor Rec.)	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
DRILLING	OIL BURN	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
WELL TEST	GAS FLARE	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		0	0	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	
2005 YEAR TOTAL							52.61	45.37	543.54	42.97	359.36	168	30	905	50	618		
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES											1,732	1,732	1,732	1,732	47,368		
		52.0																

Notes: 1) 4.73 HR/D "RUN TIME" is a daily average based on flaring 144 HR/MO, 12 MO/YEAR

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AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx

Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
Shell Exploration	Mississippi Canyon	763, 764, 807 A, 890,	OCS-G 7958, 7962, 79	TLP & RIG	
Year	Emitted Substance				
	PM	SOx	NOx	VOC	CO
2001	207.88	111.31	1601.91	68.58	808.02
2002	207.88	111.31	1601.91	66.82	808.02
2003	207.88	111.31	1601.91	66.82	808.02
2004	167.74	30.48	905.38	49.64	617.17
2005	167.74	30.48	905.45	49.70	617.58
2006	167.74	30.48	905.45	49.70	617.58
2007	167.74	30.48	905.45	49.70	617.58
2008	167.74	30.48	905.45	49.70	617.58
2009	167.74	30.48	905.45	49.70	617.58
2010	167.74	30.48	905.45	49.70	617.58
Allowable	1731.60	1731.60	1731.60	1731.60	47367.57

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The Paperwork Reduction Act of 1995 (44 U.S.C. Chapter 35) requires us to inform you that MMS collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for MMS approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. The use of this form is voluntary until OMB approves it. The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 580 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street N.W., Washington, DC 20240.

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