To: Public Information (MS 5034) Plan Coordinator, FO, Plans Section (MS From: 5231) Subject: ----- Public Information copy of plan Control # S-06615 \_ Туре Supplemental Development Operations Coordinations Document -OCS-G17406 Block -667 Garden Banks Area Lease(s) OCS-G17407 Block -668 Garden Banks Area Operator Kerr-McGee Oil & Gas Corporation Lease OCS-G 17406 Subsea No. 10 and OCS-G 17407 Subsea No. Description -11 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.

no Cooper

Elmo Cooper Plan Coordinator

Site Type/Name WELL/SS010 WELL/SS011

G17407/GB/668 G17407/GB/668

Botm Lse/Area/Blk Surface Location 5471 FNL, 1682 FEL 9652 FNL, 1757 FEL

Surf Lse/Area/Blk G17406/GB/667 G17407/GB/668

ISS FEB 7'85AM11:49

MEMORANDUM

UNITED STATES GOVERNMENT

February 4, 2005



January 28, 2005

Regional Supervisor, Field Operations Attn: Mr. Nick Wetzel (MS 5230) Minerals Management Service 1201 Elmwood Park Blvd New Orleans, LA 70123

Re: Supplemental DOCD Garden Banks Block 668; OCS-G 17407

Gentlemen:

Please find enclosed a Supplemental Development Operations Coordination Document that has been prepared in accordance with NTL 2003-G17 for the Gunnison Expansion Project located in Garden Banks Block 668. The following copies are enclosed:

Proprietary 1 Paper Copy 4 CDs Public Information 3 CDs

If you have any questions or need additional information, please contact me at 972-516-1177 or by e-mail at <u>wanda.parker@wjpenterprises.com</u>.

Very truly yours,

Wanda Jine Parker

Wanda June Parker, P. E. Deepwater Regulatory Manager Worldwide Facilities Engineering

Supplemental Development Operations Coordination Document

> Garden Banks Block 668 OCS-G 17407



# **Public Information**



## Appendix A Contents of Plan

## (A) Description, objectives and schedule

The Garden Banks (GB) 668 #10 and #11 will be drilled, completed and shut-in by Kerr-McGee under the Exploration Plans (Plan Control Numbers N-6427, S-5334, S-5496, S-5770, S-6518) approved by MMS. Kerr-McGee now proposes to produce the reserves by tying both wells back to the existing Kerr-McGee operated Gunnison spar (GB 668, Platform A) located in Garden Banks 668 through lease term pipeline jumpers to the existing subsea flowlines. The GB 668 SS010 will be tied back to the existing West Gunnison subsea development with a surface location in GB 667. In addition, a subsea manifold will be added with additional lease term pipelines to connect it to the subsea pipeline system. The GB 668 SS011 will be tied back to the existing East Gunnison subsea development with a surface location in GB 668. See Attachment A-1 for a listing of the lease term pipeline segments to be added or relocated.

The reserves to be produced by each of the wells are located in the middle to lower Pliocene. The reservoirs to be produced were discussed in the previously approved Conservation Information Document (CID) for Garden Banks 667 and 668; therefore, a supplemental CID will not be filed.

The following is a tentative schedule for the development and production activities proposes as a part of this plan.

Activity	Start Date	End Date	Number of Days
Install West Gunnison	June 1, 2005	July 1, 2005	7
Lease term pipelines and			
manifold			
Commence Production	July 1, 2005		
from GB 668 SS010			
Install East Gunnison	August 1, 2005	September 1,	7
Lease term pipeline		2005	
Commence Production	September 1, 2005		
from GM 668 SS011			

#### **(B)** Location

All drilling and completion activities will be conducted under the Exploration Plans referenced above.

The surface location for GB 668 SS0011 was approved as "Well B" in the EP Control Number N-6427 and as "GB 669 #1 ST1" under the DOCD Control Number N-7625. Plats for these



wells were included in the referenced EP and DOCD. The GB SS011 will be tied back to the existing East Gunnison subsea flowline system via a short lease term well jumper. The lease term pipeline installation will be conducted by DP vessel; therefore, no anchors will be required.

The surface location for GB SS010 was approved as Well D in EP S-5957 and DOCD N-7625 as Well GB 668 #9. A plat was submitted with the referenced EP and DOCD. The GB SS010 will be tied back to the existing West Gunnison subsea flowline system via a short lease term well jumper. In addition, the West Gunnison subsea flowline system will be modified with the addition of a subsea manifold.

The host facility, the Gunnison spar (GB 668, Platform A), is an existing facility and a plat showing its location was included in the DOCD (Control Number N-7625).

Please see Attachment A-1 for a table showing the location of the wells and host facility.

## (C) Drilling Unit

No drilling or completion activities are proposed as a part of this plan.

#### **(D)** Production Facilities

The host platform will be the existing Kerr-McGee operated Gunnison spar, GB 668, Platform A.

Please see Attachment A-2 for a schematic of the development scheme.

#### Attachment A-1

#### U.S. Department of the Interior Minerals Management Service

**OCS PLAN INFORMATION FORM** 

				Ge	eneral	Inf	orm	ation								
Type of OCS Plan:         Exploration Plan (EP)					2	X Development Operations Coordination Document (DOCD)										
Company Name: Kerr-McGee Oil and Gas Corporation					ľ	MMS	Operator 1	Number: 02	2219							
Address: 16666 Northchase					(	Conta	ct Person:	Wanda Par	ker							
Houston, TX 77060						I	Phone	Number:	972-516-1	177						
						I	E-Mai	il Address:	wanda.pa	ker@w	jpenterp	orise	s.com			
Lease(s):OCS-G 17407		Area: GB			Blo	ck(s)	: 668		Project Na	me Gur	nnison E	Expa	nsion			
Objective(s): X Oil Gas Sulphur Salt Onshore						ore B	Base: Cameron LA Galveston, TX Distance to Closest Land (Miles): 155				: 155					
	Ι	Description	n of 1	Prop	osed A	Acti	vitie	s (Mark	all that a	apply)	1					
Exploration drilling								Develop	nent drillin	g						
Well completion								Installati	on of produ	ction pl	atform					
Well test flaring (for more	than 4	48 hours)						Installati	on of produ	ction fa	cilities					
Installation of caisson or p	latforr	n as well prot	ection	n struc	ture			Installati	on of satelli	te struc	ture					
Installation of subsea well	heads	and/or manifo	olds				Х	Commen	ce producti	on						
X Installation of lease term p	ipeline	es						Other (Sp	pecify and o	lescribe	)					
Have you submitted or do you	plan to	submit a Cor	nserva	ation I	nforma	tion	Docu	ment to ac	company th	is plan?	)		Yes		Х	No
Do you propose to use new or u	inusua	l technology t	to cor	nduct y	your act	ivitie	es?						Yes		Х	No
Do you propose any facility that	t will :	serve as a hos	st faci	ility fo	r deepw	vater	er subsea development?				Yes		Х	No		
Do you propose any activities t	hat ma	ıy disturb an N	MMS	-desig	nated hi	igh-p	robal	bility archa	eological a	area? Yes			Yes		Х	No
Have all of the surface location	s of yc	Have all of the surface locations of your proposed activities been previously reviewed and approved						approved b	y MMS	5?	Х	Yes			No	
Tentative Schedule of Proposed Activities																
		Ten	tativ	ve Scl	hedul	e of	Pro	posed A	ctivities							
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MMS Form MMS-137 (August 2003 - Supersedes all previous editions of form MMS-137, which may not be used.)

## **OCS PLAN INFORMATION FORM (CONTINUED)** Include one copy of this page for each proposed well/structure

Existing Proposed Well/Structure Location													
Well or Structure Name/Number (If renaming well or structure, reference previous name):Subsea CompletionGB 668 S010 (Surface Location approved in EP S-5957 and DOCD N-7625 as GB 668 #9)Subsea Completion								mpletion					
Anchor Radius (if applicable) in feet:NA						Х	Yes	No					
	Surface Lo	cation			E	Bottom-H	ole Location (For W	/ells)					
Lease No.	OCS-G 174	06											
Area Name	Garden Ban	ks											
Block No.	667												
Blockline Departures (in feet)	N/S Departure: 5471 FNL												
	E/W Depart	ure: 1682	FEL										
Lambert X-Y coordinates	X: 1,455,59	8											
	Y: 9,910,36	9											
Latitude/ Longitude	Latitude 27	° 18' 34.35	" N										
Longitude	Longitude 9	93° 34' 09.6	54" W										
	TVD (Feet)	:			MD (Fe	(Feet): Water Dep				pth (Feet): 3180			
Anchor Loca	tions for D	Prilling F	Rig or Constru	iction Ba	rge (If a	nchor ra	dius supplied above,	not necessa	ry)-NA				
Anchor Name or No.	Area	Block	X Coordinate			Y Co	oordinate		Leng Chai	th of Anchor n on Seafloor			
			X =			Y =							
Paperwork   35) requires	Reduction us to infor	n Act of m you th	<b>1995 Statem</b> nat MMS coll	ent: The lects this	e Paper inform	work R ation as	eduction Act of s part of an appli	1995 (44 icant's Ex	U.S.C plorati	. Chapter ion Plan or			
facilitate our	review an	ns Coord d data e	ntry for OCS	plans. V	omitied Ve will	protect	proprietary data	a accordin	g to th	nation to e Freedom			
of Informatic	on Act and	30 CFR	250.196. A	n agency	may no	ot cond	uct or sponsor, a	and a pers	on is n	ot required			
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any other asp	ect of this	form to	the Informat	tion Colle	ection (	Clearan	ce Officer, Mail	Stop 423	0, Min	erals			
Management	Service,	1849 C S	Street, N.W.,	Washing	ton, DC	2024	0.	Ŧ	,				

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## **OCS PLAN INFORMATION FORM (CONTINUED)** Include one copy of this page for each proposed well/structure

Existing Proposed Well/Structure Location										
Well or Structure Name/Number (If renaming well or structure, reference previous name):       Subsea Completion         GB 668 SS011 (Surface Location Approved EP N-6427 as Well B and DOCD N-7625 as well GB 669 #1 ST1)       Subsea Completion							pletion			
Anchor Radius (if applicable) in feet:NA						X	Yes	No		
	Cfa e a L e				Det	tom Hala Landian (Far W	(alla)			
	Surface Lo	cation			BOU	tom-Hole Location (For w	ens)			
Lease No.	OCS-G 174	07								
Area Name	Garden Ban	lks								
Block No.	668									
Blockline	N/S Departu	ure: 9652 F	NL							
Departures (in feet)										
	E/W Depart	ture: 1757 l	FEL							
Lambert X-Y	X: 1,471,36	3								
	Y: 9,906,18	8								
Latitude/	Latitude 27°	° 17' 53.81	" N							
Longitude	Longitudo 0	20 21, 14	50" W							
	Longitude 9	5 51 14.	59 W				i			
	TVD (Feet)	:		MD (	(Feet): Water Depth (Feet): 3150					
Anchor Loca	tions for D	Prilling F	Rig or Construction Ba	rge (I	f ancl	nor radius supplied above,	not necessa	ry)-NA		
Anchor Name or No.	Area	Block	X Coordinate			Y Coordinate		Lengt Chain	h of Anchor on Seafloor	
			X =			Y =				
<b>Paperwork</b>	Reductior	n Act of	1995 Statement: The	e Pap	erwo	ork Reduction Act of	1995 (44	U.S.C.	Chapter	
35) requires	us to infor	m you tl	hat MMS collects this	infor	mati	on as part of an appli	cant's Ex	ploratio	on Plan or	
Developmen	t Operatio	ns Coor	dination Document su	bmitte	ed fo	or MMS approval. W	e use the	inform	ation to	
facilitate our	review an	d data e	ntry for OCS plans. V 250,106 An again of	Ve wi	ll pr	otect proprietary data	accordin	ig to the	e Freedom	
to respond to	a collect	ion of in	formation unless it dis	may		urrently valid Office	of Manac	on is no	and Budget	
Control Num	ber The	use of th	is form is voluntary	The p	ubli	c reporting burden for	r this for	n is incl	luded in the	
burden for pr	eparing E	xploration	on Plans and Develop	ment	Ope	rations Coordination	Documei	nts. We	estimate	
that burden to	o average	580 hou	rs per response, includ	ling t	he ti	me for reviewing inst	tructions,	gatheri	ing and	
maintaining	data, and c	completi	ng and reviewing the	form.	Di	ect comments regard	ing the b	urden e	stimate or	
any other asp	ect of this	s form to	the Information Colle	ection	Cle	arance Officer, Mail	Stop 423	0, Mine	erals	
Management	Service, 1	1849 C S	Street, N.W., Washing	ton, I	DC 1	20240.				

## **OCS PLAN INFORMATION FORM (CONTINUED)** Include one copy of this page for each proposed well/structure

Existing Proposed Well/Structure Location										
Well or Structure Name/Number (If renaming well or structure, reference previous name): GB 668. Platform A. Gunnison Spar (DOCD N-7625)						S	Subsea Completion			
Anchor Radius (if applicable) in feet:NA							Yes	No		
	Surface Lo	cation			Bott	tom-Hole Location (For W	ells)			
		<u>.</u>			0.00	``````````````````````````````````````				
Lease No.	OCS-G 174	0'/			OCS	<b>b</b>				
Area Name	Garden Ban	ıks								
Block No.	668									
Blockline	N/S Departu	ure: 7608' l	FNL		N/S	Departure:	F	L		
Departures (in feet)										
	E/W Depart	ture: 7458'	FWL		E/W	Departure:	F	L		
Lambert X-Y	X: 1,465,662	2.00			X:					
coordinates	Y: 9.908.232	2			Y:					
L atituda/	Latitude 27º	10, 12 025,	'N		Latitude					
Longitude	Latitude 27	18 13.823	ÎN ÎN							
	Longitude 9	93° 32' 17.9"	W		Lon	gitude				
	TVD (Feet)	:		MD (	(Feet): Water Dept			pth (Feet)	th (Feet): 3150	
Anchor Loca	tions for <b>D</b>	) Prilling F	Rig or Construction Ba	rge (If	f anch	or radius supplied above,	not necess	ary)-NA		
Anchor Name	Area	Block	X Coordinate			Y Coordinate		Leng	th of Anchor	
01 110.			X =			Y =		Chan		
Panerwork	Reduction	1 Act of	1995 Statement: The	- Pane	arwo	rk Reduction Act of	1995 (44		Chapter	
35) requires	us to infor	m vou th	nat MMS collects this	infor	mati	on as part of an appli	cant's E	r 0.5.C	ion Plan or	
Developmen	t Operatio	ns Coore	dination Document sul	bmitte	ed fo	or MMS approval. W	e use the	e inform	nation to	
facilitate our	review an	d data e	ntry for OCS plans. W	Ve wi	ll pr	otect proprietary data	accordi	ng to th	e Freedom	
of Informatio	on Act and	1 30 CFR	250.196. An agency	may	not	conduct or sponsor, a	nd a per	son is n	ot required	
to respond to	, a collect	10n of 1n	formation unless it dis	splays	a ci	arrently valid Office	of Mana	gement	and Budget	
burden for p	enaring E	xploration	on Plans and Develop	ment (	Ope	rations Coordination	Docume	nts W	e estimate	
that burden to	o average	580 hou	rs per response, includ	ling th	he ti	me for reviewing inst	tructions	, gather	ring and	
maintaining	data, and c	completi	ng and reviewing the	form.	Dir	ect comments regard	ing the b	urden e	estimate or	
any other asp	ect of this	s form to	the Information Colle	ection	Cle	arance Officer, Mail	Stop 423	80, Min	erals	
Management	Service,	1849 C S	Street, N.W., Washing	ton, E	DC 2	20240.				







#### Appendix B General Information

#### (A) Contact

Wanda June Parker WJP Enterprises Plano, Texas 75075 972-516-1177 (office) 972-516-1188 (fax) wanda.parker@wjpenterprises.com

## (B) Project Name:

Gunnison Expansion

## (C) Production Rates and Life of Reserves

Proprietary Information

## (D) New or unusual technology

No new or unusual technology is proposed to be utilized as a part of this project.

#### (E) Bonding Information

Kerr-McGee Oil & Gas Corp. has complied with the \$3,000,000 bond option as required by the Minerals Management Service in 30 CFR 256, Subpart I.

#### (F) Onshore base and support vessels

Existing onshore base locations in Galveston, Texas and Cameron, Louisiana will be utilized to support installation and production activities. Travel routes used by vessels normally will be from the base location directly to the Garden Banks 667/668; however, from time to time this route may vary. Figure B-1 is a vicinity map showing the relation between the shoreline and the block. During production operations, no increase in vessel trips to the Gunnison spar are anticipated due to the proposed subsea tie back over that given in the GB 668 DOCD (Control Number N-7625). Please see the table below for installation vessel trips.

Support Vessel	Installation of Lease Term Pipelines
Supply Boat	1 per day
Helicopters	1 per day



## (G) Lease Stipulations

GB 667 and 668 are located within MWA 602; therefore, the leases contain the military warning stipulation. However, since the time that the leases were issued, this area has been withdrawn from the military warning area.

#### (H) Related OCS facilities and operations

As shown in Figure A-2, the proposed subsea wells will be tied back to the existing Gunnison spar located in GB 668 (host platform) operated by Kerr-McGee.

#### (I) Transportation Information

No new export pipelines, or onshore terminals are proposed as a part of this project. From the host platform, the production stream will then enter into existing infrastructure to shore.





## Appendix C Geological, Geophysical and H<sub>2</sub>S Information

No new wells are planned to be drilled or completed as a part of this plan; therefore, no structure contour maps, seismic lines, geological structure cross sections, shallow hazards report, shallow hazards assessment or high-resolution seismic lines have been submitted with this plan. The surface locations were previously approved in EPs or DOCDs.

A shallow hazards assessment will be submitted with the lease term pipeline applications.

## H<sub>2</sub>S Information

## (A) Classification

No indication of  $H_2S$  has been found in any of the GB 667/668 wells drilled to date. In the previously approved EPs and DOCD, MMS has classified the area as " $H_2S$  absent". Therefore, it is requested that for this plan, MMS classify the area as " $H_2S$  absent".



#### Appendix D Biological and Physical Information

## (A) Chemosynthetic Information

No new wells are planned to be drilled or completed as a part of this plan. Chemosynthetic information was submitted with the EPs and/or DOCD for the wells which will be produced as a part of this plan.

Chemosynthetic information for the proposed lease term pipelines will be submitted with the pipeline applications.

#### **(B)** Topographic Features Information

The activities proposed in this plan are not affected by a topographic feature.

#### (C) Live Bottom (Pinnacle Trend) Information

The activities proposed in this plan are not located within the pinnacle trend area.

#### (D) Remotely Operated Vehicle (ROV) Surveys

Kerr-McGee is familiar with the requirements of NTL 2001-G04. Since no drilling is proposed as a part of this plan, no ROV surveys as required in NTL 2003-G03 are proposed to be conducted.



#### Appendix E Wastes and Discharges Information

#### (A) Discharges

No new discharges associated with the activities proposed in this plan are anticipated other than those previously described in the GB 667/668 DOCD (Control Number N-7625).

## (B) Disposed Waste

No new waste disposals associated with the activities proposed in this plan are anticipated other than those previously described in the GB 667/668 DOCD (Control Number N-7625).



## Appendix F Oil Spill Response and Chemical Information

## (A). Statement

Activities proposed in this DOCD will be covered by Kerr-McGee's approved Regional OSRP.

## (B). OSRO information

Kerr-McGee's primary equipment provider is Clean Gulf Associates (CGA). The Marine Spill Response Corporation (MSRC) STARS network will provide closest available personnel, as well as an MSRC supervisor to operate the equipment.

(c): Worst-case scenario comparison								
Category	Regional OSRP	SDOCD						
Type of Activity	Production	Production-subsea completion						
Facility Location (area/block)	Green Canyon 680	GB 668						
Facility Designation	Platform A	GB SS010, GB SS011						
Distance to Nearest Shoreline	120 miles	155 miles						
Volume (bbls)								
-Storage tanks and flowlines	3458	0						
-Lease Term Pipelines	1700	5						
-Uncontrolled blowout (BPD)	15,000	2,500						
Total Volume	20,128	2505						
Type of Oil	Crude	Condensate						
API Gravity	28°	45°						

#### (C). Worst-case scenario comparison

Since Kerr-McGee Oil and Gas Corporation has the capability to respond to the worstcase spill scenario included in its regional OSRP approved in May, 2004 (subsequently updated) and since the worst-case scenario determined for our DOCD does not replace the worst-case scenario in our regional OSRP, I hereby certify that Kerr-McGee 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 DOCD.

## (A). Facility tanks, production vessels.

Not required-subsea production only.

## (B). Spill response sites

Not required since no new multiwell structures are proposed.

#### (C). Diesel oil supply vessels



Not required in DOCDs in which Texas is an affected State and not required since no new multiwell structures are proposed where Louisiana is an affected State.

#### (D). Support vessels fuel tanks

Not required in DOCDs in which Texas is an affected State and not required since no new multiwell structures are proposed where Louisiana is an affected State.

#### (E). Produced liquid hydrocarbons transportation vessels

No liquid hydrocarbons are proposed to be transported by means other than pipeline.

#### (F). Oil and synthetic based drilling fluids

No drilling is proposed as a part of this plan.

#### (G). Oils characteristics

Not required.

#### (H). Blowout scenario

Not required in DOCDs in which Texas is an affected State and not required since no new multiwell structures are proposed where Louisiana is an affected State.

#### (I). Spill response discussion

Not required since no new surface facilities are proposed.

#### (J). Pollution prevention measures.

Not required since no new surface facilities are proposed.

#### (K). FGBNMS Monitoring Plans

Not applicable



## Appendix G Air Emissions Information

Screening Questions for DOCD's	Yes	No
Is any calculated Complex Total (CT) Emission amount (in tons)		Х
associated with your proposed exploration activities more than 90%		
of the amounts calculated using the following formulas: CT		
=3400 $D^{2/3}$ for CO, and CT = 33.3D for the other air pollutants		
(where D=distance to shore in miles)?		
Do your emission calculations include any emission reduction		Х
measures or modified emission factors?		
Does or will the facility complex associated with your proposed		Х
development and production activities process production from		
eight or more wells? (See note 1)		
Do you expect to encounter H <sub>2</sub> S at concentrations greater than 20		Х
parts per million (ppm)?		
Do you propose to flare or vent natural gas in excess of the criteria		Х
set forth under 150.1105(a)(2 and (3)?		
Do you propose to burn produced hydrocarbon liquids?		Х
Are your proposed development and production activities located		Х
within 25 miles from shore?		
Are your proposed development and production activities located		X
within 200 kilometers of the Breton Wilderness Area?		

Note 1: The Gunnison Spar processes production from eight or more wells. No new emissions on Gunnison are anticipated due to the activities associated with this DOCD. Please see the GB 668 DOCD (Control Number N-7625) for information regarding Gunnison.

#### **Summary Information**

Air Pollutant	Plan Emission Amount	Calculated Exemption Amounts (tons)	Calculated Complex Total Emission Amounts
	(tons)		(tons)
<b>Carbon Monoxide (CO)</b>	11.55	98107.01	11.55
Particulate matter (PM)	1.54	5161.5	1.54
Sulphur dioxide (SO <sub>2</sub> )	7.06	5161.5	7.06
Nitrogen oxide (NOx)	52.92	5161.5	52.92
Volatile organic compounds (VOC)	1.59	5161.5	1.59



## **Contact Information:** Wanda Parker WJP Enterprises 972-516-1177 wanda.parker@wjpenterprises.com



# Appendix H Environmental Impact Analysis (EIA)

## (A) Impact-producing factors (IPF's)

The worksheet provided by MMS below was utilized to identify the environmental resources that could be impacted by these IPFs. An "X" has been placed in the space under each IPF category associated with the proposed activities the may impact a particular environmental resource. For those cells which are footnoted, a statement has been provided below the table as to the applicability to the proposed operations, and where there may be any effect, provide an analysis of the effect.

## ENVIRONMENTAL IMPACT ANALYSIS Worksheet

	Impact Producing Factors (IPFs) Categories and Examples Refer to a recent GOM OCS Lease Sale EIS for a more complete list of IPFs								
Environmental Resources	Emissions (air, noise, light, etc.)	Effluents (muds, cuttings, other discharges to the water column or seafloor)	Physical disturbances to the seafloor (rig or anchor emplacements, etc.)	Wastes sent to shore for treatment or disposal	Accidents (e.g., oil spills, chemical spills, H <sub>2</sub> S releases)	Other IPFs you identify			
Site-specific at Offshore Location									
Designated topographic features		(1)	(1)		(1)				
Pinnacle Trend area live bottoms		(2)	(2)		(2)				
Eastern Gulf live bottoms		(3)	(3)		(3)				
Chemosynthetic communities			X (4)						
Water quality		Х			Х				
Fisheries					Х				
Marine mammals	X(8)				X(8)				
Sea turtles	X(8)				X(8)				
Air quality	X(9)				Х				
Shipwreck sites (known or potential)			(7)						
Prehistoric archaeological sites			(7)						
Vicinity of Offshore Location									
Essential fish habitat					X(6)				
Marine and pelagic birds					Х				
Public health and safety					(5)				
Coastal and Onshore									
Beaches					X(6)				
Wetlands					X(6)				
Shore birds and coastal nesting birds					X(6)				
Coastal wildlife refuges					Х				
Wilderness areas					Х				
Other Resources You Identify									

The numbers in parentheses refer to the footnotes on page 2 of this form.

## Footnotes for Environmental Impact Analysis Matrix



- 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 no-activity 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 a OCS lease block protected through the Live Bottom (Pinnacle Trend) Stipulation attached to an OCS lease.
- 3. 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 H<sub>2</sub>S 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 you judge would impact these environmental resources. If the proposed action is located a sufficient distance from a resource that no impact would occur, the EIA can note that in a sentence or two.
- 7. All activities that involve seafloor disturbances, including anchor emplacements, 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 your planned activity will occur. If the proposed activities are located a sufficient distance from a shipwreck or prehistoric site that no impact would occur, the EIA can note that in a sentence or two.
- 8. All activities that you determine might 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

(1) Designated topographic features: There are no IPF's (including effluents, physical disturbances to the seafloor and accidents) from the proposed activities that could cause impacts to topographical features. The site-specific offshore location of the proposed activities is approximately 40 miles away from the closest designated topographic feature (Flower Garden Banks).



It is unlikely that an accidental surface or subsurface oil spill will occur from the proposed activities. Since the crests of designated topographic features in the northern Gulf are found below 10 m, concentrated oil from a surface spill is not expected to reach their sessile biota. Even if a subsurface spill were to occur very near a designated topographic feature, subsurface oil should rise to the surface, and any oil remaining at depth would probably be swept clear of the banks by currents moving around the banks. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(2) Pinnacle Trend area live bottoms: There are no IPF's (including effluents, physical disturbances to the seafloor and accidents) from the proposed activities that could cause impacts to the pinnacle trend area live bottoms. The site-specific offshore location is located in the Western planning area of the Gulf of Mexico, hundreds of miles away from the closest pinnacle trend live bottom stipulated block.

It is unlikely that an accidental surface or subsurface oil spill will occur from the proposed activities. Any surface oil spill resulting from the proposed action would likely have no impact on the biota of the pinnacle trend because the crests of these features are much deeper than 20 m. Even if a subsurface spill were to occur very near pinnacle trend live bottom areas, subsurface oil should rise in the water column, surfacing almost directly over the source location and thus not impact pinnacles. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(3) Eastern Gulf live bottoms: There are no IPF's (including effluents, physical disturbances to the seafloor, or potential accidents) from the proposed activities that could cause impact to Eastern Gulf live bottoms. The site-specific offshore location of the proposed activities is located in the Western planning area of the Gulf of Mexico, hundreds of miles away from the closest eastern gulf live bottom stipulated block.

It is unlikely that an accidental surface or subsurface oil spill will occur from the proposed activities. Any surface or subsurface oil spill resulting from the proposed action would not be expected to cause adverse impacts to eastern gulf live bottoms because of the depth of the features and dilution of spills (by currents and/or quickly rising oil). The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(4) Chemosynthetic communities: The proposed activities will occur in deepwater (water depths 400 meters or greater). Therefore, IPF's (e.g. physical disturbances to the seafloor, effluents) from the proposed activities have the potential to cause impacts to chemosynthetic communities. However, the proposed activities will be conducted in accordance with Appendix D of this plan. Accordingly, we have provided MMS with the



required maps, analysis and statement(s) prepared using the guidance in Attachment B of NTL No. 2000-G20, "Deepwater Chemosynthetic Communities." Compliance with NTL No. 2000-G20 will ensure that features or areas that could support high-density chemosynthetic communities will not be impacted.

(5) Water Quality: Effluents and accidents from the proposed activities could potentially cause impacts to water quality. However, since all discharges will be made in accordance with a general National Pollutant Discharge Elimination System (NPDES) permit issued by the U. S. Environmental Protection Agency (USEPA), operational discharges are not expected to cause significant adverse impacts to water quality.

It is unlikely that an accidental oil spill will occur from the proposed activities. If a spill were to occur, the water quality of marine waters would be temporarily affected by the dissolved components and small oil droplets. Dispersion by currents and microbial degradation would remove the oil from the water column or dilute the constituents to background levels. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(6) Fisheries: An accidental oil spill that may occur as a result of the proposed action has the potential to cause some detrimental effects to fisheries. However, it is unlikely that an accidental surface or subsurface oil spill will occur from the proposed activities. If a spill were to occur in open waters of the OCS proximate to mobile adult finfish or shellfish, the effects would likely be sublethal and the extent of damage would be reduced to the capability of adult fish and shellfish to avoid a spill, to metabolize hydrocarbons, and to excrete both metabolites and parent compounds. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(7) Marine mammals: Marine mammals may be adversely impacted by several IPF's (including vessel traffic, noise, accidental oil spills, and loss of trash and debris), all of which could occur due to the proposed action. Chronic and sporadic sublethal effects could occur that may stress and/or weaken individuals of a local group or population and make them more susceptible to infection from natural or anthropogenic sources. Few lethal effects are expected from oil spills, chance collisions with service vessels and ingestion of plastic material. Oil spills of any size are estimated to be aperiodic events that may contact cetaceans. Disturbance (e.g. noise) may stress animals, weaken their immune systems, and make them more vulnerable to parasites and diseases that normally would not be fatal.

The net result of any disturbance would depend on the size and percentage of the population affected, ecological importance of the disturbed area, environmental and biological parameters that influence an animal's sensitivity to disturbance and stress, and



the accommodation time in response to prolonged disturbance (Geraci and St. Aubin, 1980). Collisions between cetaceans and ships could cause serious injury or death (Laist et al., 2001). Sperm whales are on of 11 whale species that are hit commonly by ships (Laist et al, 2001). Collisions between OCS vessels and cetaceans within the project area are expected to be unusual events.

(8) Sea turtles: IPF's that could impact sea turtles include vessel traffic, noise, trash and debris, and accidental oil spills. Small numbers of turtles could be killed or injured by chance collision with service vessels or by eating indigestible trash, particularly plastic items, accidentally lost from drill rigs, production facilities, and service vessels. Drilling rigs and project vessels produce noise that could disrupt normal behavior patterns and create some stress potentially making sea turtles more susceptible to disease. Oil spills and oil-spill-response activities are potential threats that could have lethal effects on turtles. Contact with oil, consumption of oil particles, and oil-contaminated prey could seriously affect individual sea turtles. Oil spill response planning and the habitat protection requirements of the Oil Pollution Act of 1990 should mitigate these threats.

Most OCS related impacts on sea turtles are expected to be sublethal. Chronic sublethal effects (e.g., stress) resulting in persistent physiological or behavioral changes and/or avoidance of effected areas could cause declines in survival or productivity, resulting in gradual population declines.

(9) Air quality: Installation of lease term pipelines and the production subsea well is the only planned activity under this DOCD. There are no planned air emissions associated with this activity with the exception of short term air emissions associated with laying the lease term pipelines.

(10) Shipwreck sites (known or potential): There are no IPF's (including physical disturbances to the seafloor) from the proposed activities that could cause impacts to known or potential shipwreck sites. The proposed activities are not located in or adjacent to an OCS block designated by MMS as having high-probability for the occurrence of shipwrecks and review of the Shallow Hazards Report (submitted in accordance with NTL 2002-G08, Appendix C, and NTL 98-20) indicates that there are no known or potential shipwreck sites located within the survey area.

(11) Prehistoric archaeological sites: There are no IPF's (including physical disturbances to the seafloor) from the proposed activities that could cause impacts to prehistoric archaeological sites. This is because the proposed activities are not located in or adjacent to an OCS block designated by MMS as having high-probability for the occurrence of prehistoric archaeological sites.

## Vicinity of Offshore Location



(1) Essential fish habitat: An accidental oil spill that may occur as a result of the proposed action has the potential to cause some detrimental effects on essential fish habitat. However, it is unlikely that an accidental surface or subsurface oil spill would occur from the proposed activities. If a spill were to occur in open waters of the OCS proximate to mobile adult finfish or shellfish, the effects would likely be sublethal and the extent of damage would be reduced to the capability of adult fish and shellfish to avoid a spill, to metabolize hydrocarbons, and to excrete both metabolites and parent compounds. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(2) Marine and pelagic birds: An accidental oil spill that may occur as a result of the proposed action has the potential to impact marine and pelagic birds—birds could become oiled. However, it is unlikely that an accidental oil spill will occur from the proposed activities. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(3) Public health and safety due to accidents: There are no IPF's (including an accidental  $H_2S$  release) from the proposed activities that could cause impacts to public health and safety.

In accordance with 20 CFR 150.417(c) and Appendix C of this plan, sufficient information has been submitted to justify our request that the area of our proposed activities be classified by MMS as  $H_2S$  absent.

## **Coastal and Onshore**

(1) Beaches: An accidental oil spill from the proposed activities could cause impacts to beaches. However, due to the distance from shore (155 miles) and the response capabilities implemented, no significant adverse impacts are expected. Both the historical spill data and the combined trajectory/risk calculations referenced in the publication OCS EIS/EA MMS 2002-052 indicate there is little risk of contact or impact to the coastline and associated environmental resources. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(2) Wetlands: An accidental oil spill from the proposed activities could cause impacts to wetlands. However, due to the distance from shore (155 miles) and the response capabilities implemented, no significant adverse impacts are expected. Both the historical spill data and the combined trajectory/risk calculations referenced in the publication OCS EIS/EA MMS 2002-052 indicate there is little risk of contact or impact to the coastline and associated environmental resources. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.



(3) Shore birds and coastal nesting birds: An accidental oil spill from the proposed activities could cause impacts to shore birds and coastal nesting birds. However, due to the distance from shore (155 miles) and the response capabilities implemented, no significant adverse impacts are expected. Both the historical spill data and the combined trajectory/risk calculations referenced in the publication OCS EIS/EA MMS 2002-052 indicate there is little risk of contact or impact to the coastline and associated environmental resources. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(4) Coastal wildlife refuges: An accidental oil spill from the proposed activities could cause impacts to coastal wildlife refuges. However, due to the distance from shore (155 miles) and the response capabilities implemented, no significant adverse impacts are expected. Both the historical spill data and the combined trajectory/risk calculations referenced in the publication OCS EIS/EA MMS 2002-052 indicate there is little risk of contact or impact to the coastline and associated environmental resources. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

(5) Wilderness areas: An accidental oil spill from the proposed activities could cause impacts to wilderness areas. However, due to the distance from shore (155 miles) and the response capabilities implemented, no significant adverse impacts are expected. Both the historical spill data and the combined trajectory/risk calculations referenced in the publication OCS EIS/EA MMS 2002-052 indicate there is little risk of contact or impact to the coastline and associated environmental resources. The activities proposed in this plan will be covered by our regional OSRP as discussed in Appendix F of this plan.

#### **Other Environmental Resources Identified**

None

(C) Impacts on your proposed activities: The site specific environmental conditions have been taken into account for the proposed activities. No impacts are expected on the proposed activities from site-specific environmental conditions.

Shallow Hazards reports were submitted in accordance with Appendix C of this plan and NTL 98-20. A Shallow Hazards Assessment of the any seafloor and subsurface geological and manmade features and conditions that may adversely affect operations was submitted in accordance with Appendix C of this plan and NTL 98-20.

**(D)** Alternatives: No alternatives to the proposed activities were considered to reduce the potential environmental impacts of the proposed activity.



(E) Mitigation measures: No mitigation measures other than those required by regulation will be employed to avoid, diminish, or eliminate potential impacts on environmental resources.

**(F) Consultation:** No agencies or persons were consulted regarding potential impacts associated with the proposed activities. Therefore, a list of such entities has not been provided.

## (G) References:

Although not always cited, the following were utilized in preparing the EIA:

Geraci, J.R. and D.J. St. Aubin. 1980. Offshore petroleum resource development and marine mammals: a review and research recommendations. Marine Fisheries Review 42:1-12.

Laist, D.W., A.R. Knowlton, J.G. Mead, A.S. Collet, and M. Podesta. 2001. Collisions between ships and whales. Mar. Mamm. Sci. 17:35-75.

U.S. Dept. of the Interior. Minerals Management Service. 2001, Grid 7 Environmental Assessment.

U. S. Dept of the Interior. Minerals Management Service 2001, Grid 10 Environmental Assessment.

U. S. Dept of the Interior. Minerals Management Service 2002, OCS EIS/EA MMS 2002-052, Gulf of Mexico OCS Oil and Gas Lease Sales: 2003-2007, Central Planning Area Sales 185, 190, 194, 198, and 201; Western Planning Area Sales 187, 192, 196, and 200; Final Environmental Impact Statement, Volume I: Chapters 1-10; Volume II: Figures and Tables.



# Appendix I

## Coastal Zone Management Consistency Information

## (A) Consistency Certification

Not required since no new multi well structures are proposed where Texas and Louisiana are affected states.