In Reply Refer To: MS 5231

January 16, 1996

Coastal Oil & Gas Corporation Attention: Ms. Susan B. Becnel Coastal Tower Nine Greenway Plaza Houston, Texas 77046-0995

Gentlemen:

Reference is made to the following plan received December 11, 1995:

Type Plan - Supplemental Development Operations Coordination Document Lease - OCS-G 8418 Block - 189 Area - East Cameron Activities Proposed - Wells A-5 and A-6

In accordance with 30 CFR 250.34, this plan is hereby deemed submitted and is now being considered for approval.

Your control number is S-3838 and should be referenced in your communication and correspondence concerning this plan.

Sincerely,

Danald C. Havend

ida Sail Kont E. Stenfler

Donald C. Howard Regional Supervisor Field Operations

bcc: Lease OCS-G 8418 POD File (MS 5032)

MS 5034 w/public info. copy of the plan and accomp. info.

BNewton:cic:01/09/96:DOCDGMSGC MG9

NOTED SCHEXNAILDRE

GENEUL

Locality Comments



January 5, 1996

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

Attention:

Mr. Joe Hennessey, MS 5231

Plans Unit

Re:

EAST CAMERON 189

0CS-G 8418

SUPPLEMENTAL DOCD



In accordance with our conversation of December 13, 1995, attached please find the following nine (9) copies of the following items as a supplement to our December 6, 1995 submittal:

RALS MANAGEMENT

- 1. Procurement and Deployment Times location 55 miles from shore
- 2. Onshore Support Base changed to Cameron, Louisiana location
- 3. Air Quality Review location 55 miles from shore

Please be advised that Coastal plans to drill wells A-5 and A-6 from existing Platform "A", whose location has been previously cleared. Although Well A-5 was previously approved during July 1991, this supplemental DOCD has provided updated air emissions. Coastal Oil & Gas Corporation has a rig on location which shall commence sidetrack operations on or about January 8, 1996. Drilling of proposed wells A-5 and A-6 are anticipated to commence on or about February 22, 1996. We would greatly appreciate your review of the Supplemental DOCD at your earliest convenience.

Should you have any questions or require additional information, please contact me at 713/877-6288.

Sincerely,

Susan B. Becnel

Regulatory Coordinator

Susan & Becul

Enclosures

EAST CAMERON AREA

BLOCK 189

OCS-G-8418



OIL SPILL TRAJECTORY ANALYSIS

In the event a spill occurs from EAST CAMERON BLOCK 189, the company has projected trajectory of a spill utilizing information in the Environmental Impact Statement (EIS) for OCS Lease Sale

The EIS contains oil spill trajectory simulations using seasonal surface currents coupled with wind data, adjusted every 3 hours for 30 days or until a target is contacted.

Hypothetical spill trajectories were simulated for each of the potential launch sites across the entire Gulf. These simulations presume 500 spills occurring in each of the four seasons of the year. The results in the EIS were presented as probabilities that an oil spill beginning from a particular launch site would contact a certain land segment within 3, 10, or 30 days. Utilizing the summary of the trajectory analysis (for 10 days), the probable projected land fall of an oil spill from EAST CAMERON BLOCK 189 is as follows. Also listed is the CGA Map Number corresponding to the land segment. This information will be utilized to determine environmentally sensitive areas that may be affected by a spill.

AREA LAND SEGMENT CONTACT % CGA MAP NO.

EAST CAMERON 189 CAMERON, LA 2% 5

Section V, Volume II of the CGA Manual containing maps as listed above, also includes equipment containment/cleanup protection response modes for the sensitive areas. Pollution response equipment available from CGA and its stockpile base in Cameron, Louisiana, is listed in the CGA Manual Volume I, Section III.

Section VI, Volume II of the CGA Operations Manual depicts the protection response modes that are applicable for oil spill clean-up operations. Each response mode is schematically represented to show optimum deployment and operation of the equipment in area of environmental concern. Implementation of the suggested procedures assures the most effective use of the equipment and will result in reduced adverse impact of oil spills on the environment. Supervisory personnel

have the option to modify the deployment and operation of equipment to more effectively respond to site-specific circumstances.

COASTAL OIL AND GAS CORPORATION will make every effort to see that a spill from EAST CAMERON 189 will be responded to as quickly as possible. Response equipment and response times will be suitable for anticipated environmental conditions in the area. In good weather conditions fast response with oil boom, skimmers, pump and storage tanks would require approximately 9 hours, including preparation time as indicated below. A heavy equipment system response would require approximately 24-36 hours, including 6 hours preparation time. The Clean Gulf Base in CAMERON, LOUISIANA will be utilized for this operation.

PROCUREMENT AND DEPLOYMENT TIME

Hours

1)	Procurement of boat capable of handlin equipment and deployment to nearest CLA	• •	2.0
2)	Load out Fast Response Unit		1.5
3)	Travel to lease site from CGA Base (55 miles to lease site @ 10 mph)		5.5
		Estimated Total Time	9.0

All necessary precautions will be undertaken to protect the sensitive areas including deployment of booms, skimmers, pumps, scare guns, etc. In the event a spill is projected to hit near-shore sensitive areas, COASTAL OIL AND GAS CORPORATION will immediately procure truck(s) (as per our approved Oil Spill Contingency Plan) to transport containment equipment to the staging area. Helicopters may be utilized to transport near-shore booms, scare guns, hand skimming systems, and sorbent pads.

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

ONSHORE SUPPORT BASE FACILITIES VICINITY MAP

The onshore support base facilities at Cameron, Louisiana will serve as the onshore support base facilities during the drilling and completion of wells A-5 and A-6, East Cameron Block 189. This will serve as port of debarkation for supplies and crews. Typical supply and crew boats will be utilized throughout the drilling, completion and hook-up operations. Boat and helicopter travel to and from the base will be over the most direct routes. No additional personnel will be required to conduct the proposed drilling, completion, and hook-up operations.

FREQUENCY OF TRAVEL

Drilling

Crew boats - four trips/week
Supply boats - seven trips/week
Helicopters - seven trips/week

Production

Supply boats - seven trips/week Helicopters - seven trips/week

Coastal Dili GAS CORP- SUPPLEMENTAL DOCO
"A-5, A-6 WELLS BEAUREGARD **EVANGELINE ALLEN** NEWTON JASPER **JEFFERSON DAVIS ACADIA** visital field

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

AIR QUALITY REVIEW

NOTE: There will be no changes to the existing facilities as a result of the anticipated production from Wells A-5 and A-6.

EC189NO2.XLS

COMPANY	COASTAL OIL & GAS CORPORATION
AREA	EAST CAMERON
BLOCK	189
LEASE	8418
PLATFORM(S)	EC-189-A
WELL(S)	A-5 & A-6
LATITUDE	29 07' 14.12"
LONGITUDE	92 30' 09.02"
COMPANY CONTACT	SUSAN B. BECNEL
TELEPHONE NO.	713/877-6288
REMARKS	DRILL & COMPLETE 2 WELLS, COMMENCE PRODUCTION.

AIR EMISSION CALCULATIONS

Fuel Usage Conversion Factors	Natural Gas Turbines	rbines	Natural Gas Engines	gines	Diesel Recip. Engine	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	TSP	SOx	NOx	VOC	6	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-2	4/93
NG 2-cycle lean	gms/hp-hr		0.00185	11	0.43	1.5	AP42 3.2-2	4/93
NG 4-cycle lean	gms/hp-hr		0.00185	12	0.72	1.6	AP42 3.2-2	4/93
NG 4-cycle rich	gms/hp-hr		0.00185	10	0.14	8.6	AP42 3.2-2	4/93
Diesel Recip. < 600 hp.	gms/hp-hr		0.931	14	1.12	3.03	AP42 3.3-1	4/93
Diesel Recip. > 600 hp.	gms/hp-hr	0.24	1.49	11	0.33	2.4	AP42 3.4-1	4/93
NG Heaters/Boilers/Burners	lbs/mmscf	5	0.6	140	2.8	35	AP42 1.4-1/2/3	4/93
NG Flares	lbs/mmscf		0.57	71.4	60.3	388.5	AP42 11.5-1	9/91
Liquid Flaring	lbs/bbl	0.42	6.6	2.3	0.01	0.21	AP42 1.3-1	4/93
Tank Vapors	lbs/bbl				0.03		E&P Forum	1/93
Fugitives	lbs/hr/comp.				0.000025		API Study	12/93
Glycol Dehydrator Vent	lbs/mmscf				6.6		La. DEQ	1991

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AIR EMISSION CALCULATIONS

CALCULATION		WELL TEST	DRIII										PRODUCTION	INSTALLATION	FACILITY			INSTALLATION	PIPELINE					,	DRILLING			OPERATIONS	COASTAL OIL & G	COMPANY
ON DISTANCE FROM LAND IN MILES 55.0	1996 YEAR TOTAL	GAS FLARE	FUGITIVES- GLYCOL STILL VENT-	FLARE-	MISC.	SUHPARIST THE QUE	RECIP.4 cycle rich hall gas	RECIP.4 cycle lean nat gas	TURBINE nat gas	SUPPORT VESSEL diesel	RECIP. <600hp diesel	RECIP <600hp diesel	RECIP <600hp diesel	MATERIAL TUG diesel		SUPPORT VESSEL diese	PIPELINE BURY BARGE diesel		PIPELINE LAY BARGE diesel	VESSELS/600hp diese	AUXILIARY EQUIP<600hp diesel	AUXILIARY EQUIP<600hp diesel	PRIME MOVER>600hp diesel	PRIME MOVER>600hp diesel	PRIME MOVERS600hp diese	Nat. Gas Engines	Diesel Engines		OR EAST CAMERO	AKEA
AND IN MILES							20 g	98		ese!					sei	esel	GE diesel	esel	diese	<u>. 6</u>	Ohp diesel	Ohp diesel	p diesel	p diesel			Jines	ENT		
		8	3	c	500	0	0 0	8	0	0	2050	85	٥	0	٥	0	0	0 (0202	1250	8	1250	1250	1250	WMB I U/HX	Ŧ	퓽		189 8	BLOCK
		0	0 0	300000	SCF/HR	0.00	0 0	642.87	0	0	99.015	4.1055	٥	0	٥	0	0	0 (2/.00/2	60.375	28.98	60.375	60.375	60.375	SCF/HR	SCF/HR	GAL/HR	MAX. FUEL	8418	LEASE
			32.0		COUNT	0,8	o :	15428.88	0.00	0.00	2376.36	98.53	000	0.00	0.00	0.00	0.00	0.00	2347.38	1449.00	695.52	1449.00	1449.00	1449.00	SCF/D	SCF/D	GAL/D	ACT. FUEL	EC-189-A	PLATFORM
		0 %	0 0	24		0	0 0	24	0	0	24	- (5	0	٥	0	0	0 0	0	24	24	2	24	24	HRVB			ã		WELL
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	13.02	0.53				0.00				0.00	4.52	0.19	3	0.00	0.00	0.00	0.00	0 0	1.07	0.66	1.32	2.75	0.66	0 0	TSP					LONGITUDE
	20.26	0.00		0.17		0.00	9.8	0.10	0.0	0.00	2.19	0.00	3	0.00	0.00	0.00	8	0 5	2.16	1.33	0.64	1.33	1.33	133	SOx				SUSAN B. BECNEL	CONTACT
	319.57	2.88 0.00		21.42		0.00	9.0	2.18	0.00	0.00	63.22	2.62	3	0.00	0.00	0.00	0.00	o c	49.06	30.29	18.50	38.55	30.29	3 C.C.	NOx			POUNDS PER HOUR	124	
	33.13	0.00	0.00 0.00 0.00	0.00		0.00	3 8	0.09	0.00	0.00	5.06	0.21	3	0.00	0.00	0.00	0.00	0 0	1.47	0.91	1.48	3.08	0.91	0 9	voc			UR	713/877-6288	PHONE
	180.84	0.26		116.55		0.00	88	0.30	0.00	0.0	13.68	0.57	3	0.00	0.00	0.00	0.0	8 8	10.70	6,61	4.8	8.34	o (c	n o	င္ပ				DRILL & COMPL	REMARKS
1831.50	18.76	0.01				0.00				o. 8	15.01	0 0	3	0.00	080	0.00	0.00	0 0	0.22	0.56	11	0.19	0.56) 2 3 3	TSP				ETE 2 WELLS, C	
1831.50	13.25	0.10 0.00		0.00		0.00	3.8	0.32	0.0	0.00	7.27	0 5	3	0.00	000	0.00	0 :	2 6	0.45	1.12	0.54	0.09	1 : 1	1 1 2	SOx				DRILL & COMPLETE 2 WELLS, COMMENCE PRODUCTION	
1831.50	347.98	0.03 0.00		0.26		0 0	8 8	7.25	0.00	0.0	210.13	0 5		0.00	080	0.00	0 9	9 8	10.30	25.44	15.54	2.70	25.5	25.44	NOx			TONS PER YEAR	UCTION.	
1831.50	22.14	0.00 0.00	0.00 0.00	0.00 0.22		0.0	8.8	0.28	8	0.00	16.81	9.5	†	0.00	000	0.00	0 0	0.0	0.31	0.76	1.24	022	0.76	0.76	VOC			봈		
49833.56	76.27	o. o.		1.40		0.00	9.0	0.99	0.00	0.00	45.48	9 5		0.00	000	0.00	0 60	9 6	2.25	5.55	3.36	0.58	J. C.	n ()	င္ပ					

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	CALCULATION		1997	WELL TEST	DRILLING															NSTALL ATION				INSTALLATION	PIPELINE						DRILLING				OPERATIONS	COASIAL OIL & GAS CO LEAST CAMERON	COMPANY
55.0	DISTANCE FROM LAND IN MILES		YEAR TOTAL	GAS FLARE	OIL BURN	GLYCOL STILL VENT-	PROCESS VENT-	FLARE-	TANK-	MISC.	History new man	DECIDA NASIO DEL HAL HAS	BECOM A CANADA SAN SAN SAN SAN SAN SAN SAN SAN SAN SA	RECIP 2 rocks learn nations	TURBINE nations	SUPPORT VESSEL diesel	RECID ASSOCIA diesel	DECIT. ABOUND Glesel		MATERIAL FLO LICENSE		SUPPORT VESSEL diesel	PIPELINE BURY BARGE diesel	SUPPORT VESSEL diesel	PIDELINE LAY BARGE Giosal	ALOGUE O'SOOLD GIOSGI (MOXX)	VESSEL SYSOOM diesel ONDEN	AUXILIARY EQUIP<600hp diesel	PRIME MOVER>600hp diesel	PRIME MOVER>600hp diesel	PRIME MOVER>600hp diesel	Butters	Nat. Gas Engines	Diesel Engines	EQUIPMENT	EAST CAMERON	AREA
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			•			32.0			COOM	200	8 8	15428.88	0.00	8 8	3 8	23/6.36	98.53	0.00	0.00	0.00	0.00	3 8	8 8	8 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SCF/D	SCF/D	GAL/D	ACT. FUEL	EC-189-A	PLATFORM
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				0 0		365 9	0	0 0		٥	0	365	0	. 0	. 0	365	12	0	0	0	c		• •	• •	0	0	0	0	0	0	0	DAYS			RUN TIME	29 07" 14.12"	LATITUDE
		:	;	9.5	3					0.00					0.00	1.08	0.04	0.00	0.00	0.00	0.00	0.00	9.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	000	TSP				92 30' 09.02"	LONGITUDE
		,,		0.00	3			9		0.00	0.00	0.06	0.00	0.00	0.00	6.73	0.28	0.00	0.00	0.00	0.00	2.0	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	SOx			ı	SUSAN B. BECNEL	CONTACT
		94.11		0.00			9	3		0.00	0.00	2.38	0.00	0.00	0.00	49.67	2.06	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0 9	000	NO.			POUNDS PER HOUR	Ē	
		1.69		0.00	0.00	0.00	0 6	9 8		0.00	0.0	0.14	0.00	0.00	0.00	1.49	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2 2	38	5			N N	713/877-6288	PHONE
		11.61		0.00			9.00	3		0.00	0.00	0.32	0.00	0.00	0.00	10.84	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	8 8	3 8	3	3			01000	DRII I A COMPL	REMARKS
1831.50		4.73		0.00						0.00					0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9 6	9 9	9 5	207	107				DRILL & COMPLETE 2 WELLS COMMENCE PRODUCTION	
1831.50		29.74		0.00 0.00			0.00			0.00	0.00	0.26	0.00	0.00	0.00	29.48	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	0	0.00	2 6	9 6	8 6) OX	2			OMINICIACE PACE	OMMENCE PROF	
1831.50		227.99		o o 8			0.00			0.00	0.0	10.42	8	0.00	0.00	217.55	0.01	0	0.00	000	0.00	0.00	0.00	0.00	0.00	0	0.00	3 8	8 8	3 8	NCX	***		IONS PER TEAR	ONIO DED VE	ROLLON	
1831.60		7.16		0.00	0.00	0.00	3 8	0.00		0.00	9.0	0.63	000	0.00	0.00	6.53	0.00	000	0.00	000	0.00	0.00	0.00	0.00	0.00	3	0 9	38	3 8	9 8	Ş			ֹא	1		
49833.56		48.87		0.00 0.00			0.00			0.00	0.00	1 39	000	0.00	0.00	47.48	0.00	3	0.00	3	0.00	0,00	0.00	0.00	0.00	9	0 0	3 8	3 8	9.8	CO						

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	CALCULATION	EVE 1930		WELL TEST											TRODUCTION	BBODI GTION	NOTALIATION	FACILITY			INSTALLATION	PIPELINE					DKILLING				OTRICALIONS	ODEDATIONS OF	COASTAL OIL & GAS CO
55.0	DISTANCE FROM LAND IN MILES	EAR IOIAL		GAS FLARE	GLYCOL STILL VENT-	PROCESS VENT-	TANK-	MISC.	ELIPAGE net ges	RECIP.4 cycle rich nat gas	RECIP 4 cycle lean nat das	RECIP.2 cycle lean nat gas	TORRING CAR COME	SUPPORT VENNE diamet	And The county diesel		MATERIAL THE SECOND	DERRICK RARGE diasal	SUPPORT VESSEL diesel	PIPELINE BURY BARGE diesel	SUPPORT VESSEL diesel	PIPELINE LAY BARGE diesel	vessets soonb dieser	CONTRACT EQUIP COORD diesel	TRIME MOVERY600hp diesel	PRIME MOVER>600hp diesel	PRIME MCVER>600hp diesel	Burners	Nat. Gas Engines	Diesel Engines	ECCIPMENT	CAMERO	EACT CAMEBON
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				0	0	00		SCF/HR	0.00	0 0	645.87	-	99.013	4.1055	0			ļ	0	0	0	٥	•	٥	0	0	0	SCF/HR	SCF/HR	GAL/HR	MAX. FUEL	8418	
					32.0			COUNT	0.00	0.00	15.478.88	88	23/6.36	98.53	0.00	0.00	9 9		0.00	0.00	0.0	8	0.00	0.00	0.00	0.00	0.00	SCF/D	SCF/D	GAL/D	ACT. FUEL	ᆫ	l
				00	O	00	0		0	o ‡	2 0	-	24	<u> </u>	0	٥			0	0	0	٥	0	0	0	0	0	HR/D			RUN TIME	A-5 & A-6	
				00	365 0	00	0		0	0 8	3 0		365	12	0	0	0		0	0 (0	٥	0	0	0	0	0	DAYS			IME	14.12"	
		1.13		0.00					8				1.08	0.04	0.00	0.00	0.00		0.00	0.00	8	3	0.00	0.00	8	8	0.00	TSP				92 30' 09.02"	
		7.01		0.0		0.00			0.00	8 8	8 8	2.0	6.73	0.28	0.00	0.00	0.00		0.00	000	3 8	3	0.00	0.00	0.00	0.00	0.00	SOx			POL	SUSAN B. BECNEL	***************************************
		64.11	0.00	9 .9 8 8	·	0.00		1	88	2.38	2 2	0.08	49.67	2.06	0.00	0.00	0.00		0.00	9 9	8 8	3	0.00	0.0	0.00	0.00	0.00	NOx			POUNDS PER HOUR		
		1.70	0.00	3 8	0 0 0 8	0.0 8 8	0.00	0.00	8 8	0.14	2.00	0.00	1.49	0.06	0.00	0.00	0.00		0.00	9 8	8 8	3	0.00	0.00	0.00	00	0.00	VOC				877-6288	1110145
		11.60	0.00	9.8 8		0.00		9.95	3 8	0.32	0.00	0.00	10.84	0.45	0.08	0.00	0.00		0.00	9 8	3 8	3	0.00	o.00	0.00	0.00	e.80	8				DRILL & COMPLE	
1831.60		4.75		0.00				0.00	3				4.75	0.00	0.00	0.00	0.00		0.00	3 8	3 8	3	0.00	8	0	0 10	000	TSP				TE 2 WELLS, CO	
1831.50		29.47	0.00	0.00		0.00		0.00	8 8	8.9	0.00	0.00	29.47	0.00	0.00	0.00	0.00		0.00	8 8	3 8	3	0.00	000	0.00	9 50	0.00	xOx				DRILL & COMPLETE 2 WELLS, COMMENCE PRODUCTION.	
1831.50		227.98	0.00	3.8		0.00		0.00	3 8	10.42	0.00	0.00	217.55	0.01	0.00	0.00	0.00		0.00	3.5	8 8	2	0.00	8	0.00	9	000	NON			TONS DER VEAR	JCTION.	
1831.50		7.16	0.00	0.00	0.09	0.0	0.00	0.00	8.5	0.63	0.00	0.00	6.53	0.00	0.00	0.00	0.00	-	88	200	2 2		0.00	8	0.00	200	3	VOC.					
49833.56		48.86	0.00	0.0		0.00		0.00	8 6	1.39	0.00	0.00	47.47	0.00	0.00	0.00	0.00		0 .0	3.0	0.00		0.00	9	0.00	9.6	000	3					

AIR EMISSION CALCULATIONS

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
COASTAL OIL &	EAST CAMERON	189	8418	EC-189-A	A-5 & A-6
		Emitted		Substance	
Year					
	TSP	SOx	XON	HC	00
1996	18.76	13.25	347.98	22.14	76.27
1997	4.73	29.74	227.99	7.16	48.87
1998	4.75	29.47	227.98	7.16	48.86
1999	4.75	29.47	227.98	7.16	48.86
2000	4.75	29.47	227.98	7.16	48.86
2001	4.75	29.47	227.98	7.16	48.86
2002	4.75	29.47	227.98	7.16	48.86
2003	0.00	0.00	0.00	0.00	0.00
2004	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00
Allowable	1831.50	1831.50	1831.50	1831 50	49833 56

BEST AVAILABLE COPY





December 6, 1995

Minerals Management Service 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394

United States Department of Interior

Attention:

Mr. Joe Hennessey, MS 5231

Plans Unit

Re:

EAST CAMERON 189

0CS-G 8418

SUPPLEMENTAL DOCD

Gentlemen:

In accordance with the guidelines set forth in 30 CFR 250.34, Coastal Oil & Gas Corporation (Coastal) submits for your review and favorable approval a proposed Supplemental Development Operations Coordination Document (DOCD) for the above referenced block.

Enclosed you will find nine (9) copies of the subject plan; five (5) of which contain "Proprietary Data" that is exempt from disclosure under the privacy Act (5 U.S.C. 552a) and the implementing regulations (43 CFR Part 2 Subpart D). Four (4) copies are considered "Public Information."

In accordance with the requirements of Letter to Lessees and Operators (LTL) dated November 5, 1993, which amends Title 30 CFR 250 Part 256 Surety Bond requirements applicable to OCS lessees and operators, Coastal has obtained the \$3,000,000 Areawide Development Bond and the \$300,000 OCS Right-of-Way Grant Bond.

Please be advised that Coastal plans to drill wells A-5 and A-6 from existing Platform "A", whose location has been cleared. Drilling operations are anticipated to commence on or about January 19, 1996. We would greatly appreciate your review of the Supplemental DOCD at your earliest convenience.

Should you have any questions or require additional information, please contact me at 713/877-6288.

Sincerely,

Susan B. Becnel Regulatory Coordinator

Enclosures

Coastal Oil & Gas Corporation

A SUBSIDIARY OF THE COASTAL CORPORATION

COASTAL TOWER • NINE GREENWAY PLAZA • HOUSTON TX 17046-0995 • 713 877 : 400 • 11 X 166008





EAST CAMERON AREA

BLOCK 189

OCS-G 8418

OFFSHORE, LOUISIANA

DECEMBER 1995

PUBLIC INFORMATION

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

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^{*} Contains Proprietary Data

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

PROPOSED DEVELOPMENT ACTIVITIES AND SCHEDULE

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

PROPOSED DEVELOPMENT ACTIVITIES AND SCHEDULE

COASTAL OIL AND GAS CORPORATION (COASTAL) plans to drill TWO (2) additional wells, the A-5 and A-6, from the existing Platform "A" location. Wells A-1, A-2, A-3, A-4 have been drilled under an approved DOCD for this block. The Initial DOCD was approved in 1991. A-5 and A-6 will be drilled under this SUPPLEMENTAL DOCD.

All separation, dehydration, testing and metering will take place on the EC 189 "A" platform. No modifications to the existing facilities will be necessary to accommodate anticipated production from the proposed wells. Production from the wells on the "A" Platform flows through an 8" pipeline which ties into Texas Eastern's pipline in West Cameron 279. An initial combined production rate from wells A-1 through A-6 is expected to be:

> 10 MMCFPD

>50 BCPD

>150 BWPD

The estimated reserve life is approximately >10 years.

No new technology will be utilized during this operation.

No new nearshore or onshore pipelines or facilities will be constructed.

All gas processing will take place on the "A" platform.

EAST CAMERON AREA

BLOCK 189

OCS-G 8418

PROPOSED ACTIVITY SCHEDULE

Drill and complete Well A-5	. January	1996
Drill and complete Well A-6	February	1996
Commence production	March	1996

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

WELLS AND PLATFORM LOCATIONS

EAST CAMERON AREA

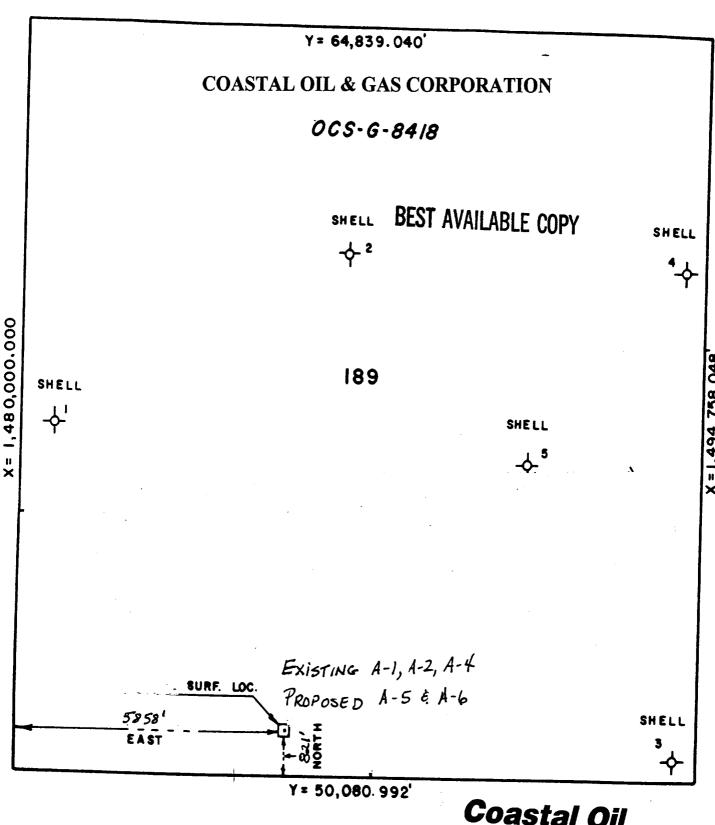
BLOCK 189

OCS-G-8418

PROPOSED WELL LOCATIONS

WELL	<u>\$L</u>	<u>WD</u>
A-5	821'FSL & 5858' FWL	90'
A-6	821' FSL & 5858' FWL	90'

PUBLIC INFORMATION



Coastal Oil & Gas Corp.

SUPPLEMENTAL DOCD

12-95

PUBLIC INFORMATION

EAST CAMERON 189

LOCATION PLAT

1 "= 2000

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

GEOLOGICAL INTERPRETATION, SHALLOW HAZARDS AND ARCHEOLOGICAL REPORT AND STRUCTURE MAP(S)

PROPRIETARY DATA

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

RIG DESCRIPTION AND SAFETY FEATURES, SAFETY AND ENVIRONMENTAL SAFEGUARDS, MUD COMPONENTS AND ADDITIVES

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

RIG DESCRIPTION

The proposed wells, A-5 and A-6, will be drilled and completed with a jack-up rig. The specifications for the actual drilling vessel and safety equipment will be submitted with the application for Permit to Drill for the OCS-G-8418, Wells A-5 and A-6 wells. The drilling vessel used to drill the above-mentioned well will contain and maintain various safety equipment in accordance with 30 CFR 250.57 (Subpart D), such as diverter system, blowout preventers, auxiliary equipment, and mud testing and monitoring equipment. Drilling operations will be conducted in a manner so as to maximize pollution prevention in accordance with 30 CFR 250.40 (Subpart C). All other safety and control equipment will be utilized in accordance with 30 CFR 250 (Subparts C, D and H).

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

SAFETY AND ENVIRONMENTAL SAFEGUARDS

Safety features during drilling operations will include well control and blowout prevention equipment that meets or exceeds the requirements of 30 CFR Part 250 Subpart D.

Oil in any form shall not be disposed of into the waters of the Gulf of Mexico.

Liquid waste materials containing substances which may be harmful to aquatic life or wildlife, or injurious in any manner to life or property shall be treated to avoid disposal of harmful substances into the waters of the Gulf.

Drilling muds containing oil are not disposed of into the Gulf. This type of material is loaded and barged to shore for proper disposal. Drilling mud containing toxic substances are neutralized prior to disposal.

Drilling cuttings, and solids containing oil are not disposed of into the Gulf unless the oil has been removed.

The subject offshore mobile drilling unit is equipped with drip pans under the rig floor. All oil from diesel engines is pumped to a sump and then pumped into barrels for return to an approved onshore disposal site.

Operator personnel are instructed in the techniques and methods necessary to prevent pollution. Non-operator personnel are instructed and supervised to insure that non-pollution practices are adhered to. The facilities are inspected daily.

DRILLING MUD COMPONENTS

COMMON CHEMICAL OR

CHEMICAL TRADE NAME

Aluminum Stearate "AKTAFLO-S"

Barite

Calcium Carbonate Calcium Chloride Calcium Oxide Calcium Sulfate

Carboxymethyl Cellulose

Caustic Potash Caustic Soda **Chrome Lignite**

Chrome Lignosulfonate

Drilling Detergent

"E-Pal"

Ferrochrome Lignosulfonate

Gel

Gypsum Lignite

Lignosulfonate "Mud-Sweep" "MOR-REX" "Shale-Trol"

Sapp Soda Ash

Sodium Bicarbonate

Sodium Carboxymethyl Cellulose

Sodium Chloride Sodium Chromate

Starch "TX-9010" "TORO-Trim" **DESCRIPTION OF MATERIAL**

Aluminum Stearate Nonionic Surfactant Barium Sulfate (BaSO4) Aragonite (CaCO3) Hydrophilite (CaC12)

Lime (Quick)

Anhydrite (CaSO4)

Carboxymethyl Cellulose

Potassium Hydrate

Sodium Hydroxide (NaOH)

Chrome Lignite

Chrome Lignosulfonate

No-toxic, biodegradable defoamer

Derived from wood pulp

Sodium montmorillonite, bentonite,

attapulgite CaSO4.2H2O

Lignite

Lignosulfonate Cement Pre-Flush

Hydrolyzed Cereal Solid Organo-aluminum complex Sodium Acid Pyrophosphate

Sodium Carbonate

NaHCO3

Sodium Carboxymethyl Cellulose

NaC1

NaCr04.10H2O Corn Starch

Biodegradable drilling lubricant Biodegradable drilling lubricant

MUD ADDITIVES

COMMON CHEMICAL OR CHEMICAL TRADE NAME

"Black Magic"

"Black Magic Supermix"

Diesel pills

"Jelflake"

MICA

"Pipe-Lax"

"Wall-nut"

Wood fibers

DESCRIPTION OF MATERIAL

Oil base mud conc.

Sacked concentrated oil base mud Used to mix certain loss-circulation

Plastic foil, shredded cellophane

Loss-circulation material

Surfactant mixed with diesel

Ground walnut shells Loss-circulation material

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

QUANTITY, RATES OF DISCHARGE, AND COMPOSITION OF WASTES, AND OIL SPILL TRAJECTORY ANALYSIS

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

QUANTITY, RATES OF DISCHARGE, AND COMPOSITION OF WASTES

All discharges associated with the drilling and production of the proposed wells will be in accordance with the EPA NPDES General Permit GMG290000 for the Gulf of Mexico.

Cuttings discharges are based on the average hold size for each section of hole. Mud may be discharged for purposes of dilution or at end of well. The fluid used for drilling will be a typical lignosulfonate mud unless otherwise noted in the drilling program. Concentrations of the chemicals in the mud can be estimated from the daily fluids chemical inventory. Other surveillance of the fluid is accomplished by the monthly and end-of-well LC50 toxicity tests required by EPA. Any drilling fluid contaminated with oil will be transported to shore for proper disposal at an authorized disposal site.

Sewage will be treated on location with an approved U. S. G. S. marine sanitation device.

Solid domestic wastes will be transported to shore for proper disposal at an authorized disposal site.

Produced water discharges will be based on the actual produced waters from each well. Produced water samples will be grabbed at lease once each month and analyzed for oil/grease content.

Deck drainage will be estimated by amount of rainfall and wash water used.

A discussion of the quantity, rates of discharge and composition of solid and liquid wastes are attached.

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

OIL SPILL TRAJECTORY ANALYSIS

In the event a spill occurs from EAST CAMERON BLOCK 189, the company has projected trajectory of a spill utilizing information in the Environmental Impact Statement (EIS) for OCS Lease Sale

The EIS contains oil spill trajectory simulations using seasonal surface currents coupled with wind data, adjusted every 3 hours for 30 days or until a target is contacted.

Hypothetical spill trajectories were simulated for each of the potential launch sites across the entire Gulf. These simulations presume 500 spills occurring in each of the four seasons of the year. The results in the EIS were presented as probabilities that an oil spill beginning from a particular launch site would contact a certain land segment within 3, 10, or 30 days. Utilizing the summary of the trajectory analysis (for 10 days), the probable projected land fall of an oil spill from EAST CAMERON BLOCK 189 is as follows. Also listed is the CGA Map Number corresponding to the land segment. This information will be utilized to determine environmentally sensitive areas that may be affected by a spill.

AREA LAND SEGMENT CONTACT % CGA MAP NO.

EAST CAMERON 189 CAMERON, LA 2% 5

Section V, Volume II of the CGA Manual containing maps as listed above, also includes equipment containment/cleanup protection response modes for the sensitive areas. Pollution response equipment available from CGA and its stockpile base in Cameron, Louisiana, is listed in the CGA Manual Volume I, Section III.

Section VI, Volume II of the CGA Operations Manual depicts the protection response modes that are applicable for oil spill clean-up operations. Each response mode is schematically represented to show optimum deployment and operation of the equipment in area of environmental concern. Implementation of the suggested procedures assures the most effective use of the equipment and will result in reduced adverse impact of oil spills on the environment. Supervisory personnel

have the option to modify the deployment and operation of equipment to more effectively respond to site-specific circumstances.

COASTAL OIL AND GAS CORPORATION will make every effort to see that a spill from EAST CAMERON 189 will be responded to as quickly as possible. Response equipment and response times will be suitable for anticipated environmental conditions in the area. In good weather conditions fast response with oil boom, skimmers, pump and storage tanks would require approximately 12 to 13 hours, including preparation time as indicated below. A heavy equipment system response would require approximately 24-36 hours, including 6 hours preparation time. The Clean Gulf Base in CAMERON, LOUISIANA will be utilized for this operation.

PROCUREMENT AND DEPLOYMENT TIME

Hours

1)	Procurement of boat capable of handling Oil Spill Containment equipment and deployment to nearest CGA base in Cameron, LA	2.0
2)	Load out Fast Response Unit	1.5
3)	Travel to lease site from CGA Base (65 miles to lease site @ 10 mph)	6.5

Estimated Total Time 10.0

All necessary precautions will be undertaken to protect the sensitive areas including deployment of booms, skimmers, pumps, scare guns, etc. In the event a spill is projected to hit near-shore sensitive areas, COASTAL OIL AND GAS CORPORATION will immediately procure truck(s) (as per our approved Oil Spill Contingency Plan) to transport containment equipment to the staging area. Helicopters may be utilized to transport near-shore booms, scare guns, hand skimming systems, and sorbent pads.

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

DISCHARGES

<u>WELL</u>	<u>DEPTHS</u>	HOLE SIZES	QUANTITY (BBLS)	DISCHARGE RATE
A-5	350'	24"	306	MAX. 1000 BPH
	3,000'	13-1/2"	469	MAX. 1000 BPH
	10,000'	9-7/8"	663	MAX. 1000 BPH
A-6	350'	26"	306	MAX. 1000 BPH
	3,000'	17-1/2"	789	MAX. 1000 BPH
	10,000'	12-1/4"	1020	MAX. 1000 BPH
	13,200'	8-1/2"	225	MAX. 1000 BPH

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

Request for Classification of Probability of Encountering H₂S

<u>During Operations</u>

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

Hydrogen Sulfide (H₂S)

In accordance with 30 CFR 250.67, COASTAL OIL AND GAS CORPORATION requests that EAST CAMERON 189, OCS-G-8418 be classified as being in a "Zone Where the Absence of $\rm H_2S$ has been Confirmed."

Hydrogen Sulfide was not encountered or detected in any of the wells drilled by Koch Exploration in East Cameron Block 189, 192, and 193.

<u>OPERATOR</u>	<u>BLOCK</u>	<u>LEASE</u>	WELL	<u>DEPTH</u>
Koch	189	G-8418	A-1	7323'
Koch	189	G-8418	A-2	12566'
Koch	189	G-8418	A-4	11100'
Koch	193	G-8651	B-1	6212'
Koch	192	G-8650	A-3	6415'

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

AIR QUALITY REVIEW

NOTE: There will be no changes to the existing facilities as a result of the anticipated production from Wells A-5 and A-6.

COMPANY	COASTAL OIL & GAS CORPORATION
AREA	EAST CAMERON
BLOCK	189
LEASE	8418
PLATFORM(S)	EC-189-A
WELL(S)	A-5 & A-6
LATITUDE	29 07' 14.12"
LONGITUDE	92 30' 09.02"
COMPANY CONTACT	SUSAN B. BECNEL
TELEPHONE NO.	713/877-6288
REMARKS	DRILL & COMPLETE 2 WELLS, COMMENCE PRODUCTION.

EC189AIR.XLS

GULF OF MEXICO AIR EMISSION CALCULATIONS

General

This document (MMS.XLW) was prepared through the cooperative efforts of those professionals in the oil industry including the API/OOC Gulf of Mexico Air Quality Task Force, who deal with air emission issues. This document is intended to standardize the way we estimate an air emission inventory for Plans of Exploration (POE) and Development, Operations, Coordination Documents (DOCD) approved by the Minerals Management Service (MMS). It is intended to be thorough but flexible to meet the needs of different operators. This first file gives the basis for the emission factors used in the emission spreadsheet as well as some general instructions. The following files, Title Sheet, Factors Sheet, Emissions Spreadsheet, and Summary Sheet will describe and calculate emissions from an activity.

Title Sheet

The Title Sheet requires input of the company's name, area, block, OCS-G number, platform and/or well(s) in the necessary lines. This data will automatically be transferred to the spreadsheet and summary sheet.

Factor Sheet

The emission factors were compiled from the latest AP-42 references or from industry studies if no AP-42 reference was available. Factors can be revised as more data becomes available. A change to this Factor Sheet will be automatically changed in Emission Spreadsheet.

The basis for the factors is as follows:

1. NG Turbines Fuel usage scf/hr = HP X 9.524 (10,000 btu/HP-hr / 1050 btu/scf)

2. NG Engines Fuel usage scf/hr = HP X 7.143 (7,500 btu/HP-hr / 1050 btu/scf)

3. Diesel Fuel usage gals/hr = HP X 0.0483 (7,000 btu/HP-hr / 145,000 btu/gal)

Emission Factors

Natural Gas Prime Movers

- 1. TNMOC refers to total non-methane organic carbon emissions and these can be assumed equivalent to VOC emissions.
- 3. The sulfur content assumed is 2000 grains /mmscf (3.33 ppm). If your concentration is different then ratio your emission factor up or down.

EC189AIR.XLS

Diesel-Fired Prime Movers

- 1. Diesel sulfur level 0.4% by wt
- For boats use > 600 HP factors based on AP-42 Vol. II, Table II-3-3.
 Those figures closely match the above values. Include only the emissions from the boats within 25 mile radius of the well/platform.
- 3. For diesel engines <600 HP VOC emissions equal total HC emissions; for diesel engines>600 HP VOC emissions equal non-methane HC emissions.

Heaters/Boilers/Firetubes/NG-Fired

- 1. NG Sulfur content is 2000 grains per million cu ft
- 2. VOCs emissions based on total non-methane HCs

Gas Flares

- 1. Flare is non-smoking
- 2. 1050 btu/cu. ft. for NG heating value
- 3. The sulfur content assumed is 2000 grains /mmscf (3.33 ppm). If your concentration is different then ratio your emission factor up or down or you may use the following formula:

H2S flared (lbs/hr) = Gas flared (cu ft/hr) X ppm H2S X 10E-06 X 34/379

SOx emis (lbs/hr) = H2S flared (lbs/hr) X 64/34

Liquid Flares

- 1. Assume 1% by wt Sulfur maximum in the crude oil.
- 2. VOC equals non-methane HCs
- 3. Particulate emissions assumes Grade 5 oil.

Tanks

1. Tank emissions assumes uncontrolled fixed roof tank.

Fugitives

1. Fugitives are based on the 1993 Star Environmental Report. It requires that you count or estimate

your components.

Glycol Dehydrator Vent

1. The dehydrated gas rate in SCF/HR must be entered in the spreadsheet. The emission factor is from the compilation of the Louisiana Survey and an average emissions per gas rate.

Gas Venting

1. The emission factor is based on venting unburned natural gas of average weight.

Emissions Spreadsheet

The emissions from an operation should be presented for a calendar year (1994, 1995, etc.). The operation may include drilling only or drilling in conjunction with other activities such as pipeline installation or production operations. For additional years the Emissions Spreadsheet is renamed Emissions 2, 3, etc. The different operating parameters for each year should entered to calculate revised emissions for that year. The spreadsheet will calculate maximum fuel usage (UNIT/HR) using the known horsepower. It will assume maximum fuel usage is equal to actual fuel (UNIT/DAY) usage unless the actual fuel usage is known. If so, insert actual fuel usage in appropriate column. The emissions will be calculated as follows:

Emission rate (lb/hr) = (HP or fuel rate) X Emission Factor

(Potential to emit)

Emissions (tpy)=Emission rate (lb/hr) X load factor(Act Fuel/Max Fuel) X hrsX daysX ton/2000 lbs (Actual emissions)

To customize the spreadsheet for your application it is possible to delete lines for non-applicable equipment/activities or copy/insert an entire line if more than one similar type of equipment is present.

Also, the production equipment can be customized further by adding the use of the equipment behind each type of engine, i.e.,

Turbine

Turbine - Gas Compressor

Burner

Burner - Line Heater

Summary Sheet

The Summary Sheet is designed to show a proposed estimate of emissions from an activity over a future period of time. In this example ten years was chosen. The first line (Row 7-1994) of the summary sheet is linked to the yearly totals in the Emissions Spreadsheet. The second line (Row 8-1995) is referenced to Emissions2 Spreadsheet. The third line (Row 9-1996) is referenced to Emissions3 Spreadsheet. If more years of calculations are necessary to reach a constant then the spreadsheet can be copied and linked to the summary sheet for years 1997,1998 etc. Once emissions are constant the values are carried to the end of the ten year period.

AIR EMISSION CALCULATIONS

Fuel Usage Conversion Factors	Natural Gas Turbines	ırbines	Natural Gas Engines	gines	Diesel Recip. Engine	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	TSP	xox	XON	NOC	00	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-2	4/93
NG 2-cycle lean	gms/hp-hr		0.00185	11	0.43	1.5	AP42 3.2-2	4/93
NG 4-cycle lean	gms/hp-hr		0.00185	12	0.72	1.6	AP42 3.2-2	4/93
NG 4-cycle rich	gms/hp-hr		0.00185	10	0.14	8.6	AP42 3.2-2	4/93
Diesel Recip. < 600 hp.	gms/hp-hr	1	0.931	14	1.12	3.03	AP42 3.3-1	4/93
Diesel Recip. > 600 hp.	gms/hp-hr	0.24	1.49	11	0.33	2.4	AP42 3.4-1	4/93
NG Heaters/Boilers/Burners	lbs/mmscf	5	9.0	140	2.8	35	AP42 1.4-1/2/3	4/93
NG Flares	lbs/mmscf		0.57	71.4	60.3	388.5	AP42 11.5-1	9/91
Liquid Flaring	lqq/sql	0.42	9.9	2.3	0.01	0.21	AP42 1.3-1	4/93
Tank Vapors	qq/sq				0.03		E&P Forum	1/93
Fugitives	lbs/hr/comb.				0.000025		API Study	12/93
Glycol Dehydrator Vent	lbs/mmscf				9.9		La. DEQ	1991
Gas Venting	lbs/scf				0.0034			

AIR EMISSION CALCULATIONS

COMPANY	AREA	BLOCK	LEASE	_	ı	LATTUDE	LONGITUDE	CONTACT		PHONE	REMARKS					
COASTAL OIL & GAS COR EAST CAMERON	R EAST CAMERON	189	Н		A-5 & A-6 2	14.12"	92 30' 09.02"	SUSAN B. BECNEL		677-6288	DRILL & COMPLETE 2 WELLS, COMMENCE PRODUCTION.	TE 2 WELLS, CO	MMENCE PRODU	UCTION.		
OPERATIONS	EQUIPMENT		Н	ACT. FUEL	RUN TIME	IME		POL	POUNDS PER HOUR				ĺ	TONS PER YEAR	Z,	
	Diesel Engines	윺	GAL/HR	GAL/D												
	Nat. Gas Engines	НР	SCF/HR	SCF/D												
	Burnott	MMBTU/HR	SCF/HR	SCF/D	HRVD	DAYS	TSP	SOx	×ON	NOC	ප	TSP	SOx	XON	200	8
DRILLING	PRIME MOVER>600hp diesel	1250	60.375	1449.00	24	e e	99.0	1.33	30.29	16.0	6.61	95.0	1.12	25.44	0.76	5.55
	PRIME MOVER>600hp diesel	1250	60.375	1449.00	24	2	99.0	1.33	30.29	0.91	6.61	0.56	1.12	25.44	0.76	5.55
	PRIME MOVER>600hp diesel	1250	60.375	1449.00	24	2	99.0	1.33	30.29	0.91	6.61	0.56	1.12	25.44	0.76	5.55
	AUXILIARY EQUIP<600hp diesel	1250	60.375	1449.00	8	20	2.75	1.33	38.55	3.08	8.34	0.19	600	2.70	0.22	0.58
	AUXILIARY EQUIP<600hp diesel	009	28.98	695.52	24	2	1.32	9.0	18.50	1.48	8	1.11	0.54	15.54	124	336
	VESSELS>600hp diesel	1250	60.375	1449.00	54	2	99.0	1.33	30.29	0.91	6.61	950	1.12	25.44	0.76	5.55
	VESSELS>600hp diesel	2025	97.8075	2347.38	ဖ	20	1.07	2.16	49.06	1.47	10.70	0.22	0.45	10.30	0.34	2.25
PIPELINE	PIPELINE LAY BARGE diesel	0	0	0.00	0	0	00.0	00.0	0.00	0.0	0.00	0.00	000	0000	000	00.0
INSTALLATION	SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.0	00.0	0.00	0.0	0.00	0.00	800	000	8
	PIPELINE BURY BARGE diesel	0	0	0.0	0	0	0.00	0.0	0.0	00.0	0.00	0.00	00.00	000	000	000
	SUPPORT VESSEL diesel	0	0	0.00	0	0	0.0	0.00	0.0	0.00	0:00	0.00	0.0	0.00	00'0	0.00
FACILITY	DERRICK BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	00'0	000	000	000	00 0
INSTALLATION	MATERIAL TUG diesel	0	0	0.0	0	0	0.00	0.0	00.0	0.00	0.0	000	000	8 8	000	000
PRODUCTION	RECIP. <600hp diesel	0	0	0.00	0	0	0.00	00:0	00.00	00.0	00.00	0.00	00.0	00.0	00.0	0.00
	RECIP. <600hp diesel	82	4.1055	98.53	-	ო	61.0	60.0	2.62	0.21	0.57	0.00	0.00	0.00	0.00	0.0
	RECIP. <600hp diesel	2050	99.015	2376.36	24	277	4.52	2.19	63.22	5.06	13.68	15.01	7.27	210.13	16.81	45.48
	SUPPORT VESSEL diesel	0	0	0.0	0	0	800	0.0	0.0	00.0	0.00	0.0	0.00	0.0	0.00	00.00
	TURBINE nat gas	0	0	0.00	•	0		0.0	0.0	0.00	00.0		0.00	0.0	0.0	0.00
	RECIP.4 cycle lean nat gas	8	642.87	15428.88	24	277		0.10	2.18	60.0	0:30		0.32	7.25	0.28	0.99
	RECIP.4 cycle lean nat gas	0	0	0.00	0	0		0.0	0.00	0.00	0.00		00:0	00.0	0.00	0.00
	RECIP.4 cycle rich nat gas	0 (0	0.0	0	0		0.0	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	CHARACTER CORP.	0 6	00:00	000	•	0	0.00	0.00	0.00	800	0.00	0.00	0.00	0.00	0.00	0.00
	MIDC.	a c	SCF/HK	INDOS												
	FI ABE-		300000		> %	> -		0.47	7	8.0	110.55	_		8	0.00	,
	PROCESS VENT-		o		; 0			:	7	5 5	3		3	0.20	7.0	9.
	FUGITIVES.			32.0	Section of the sectio	277				800					8 8	
	GLYCOL STILL VENT-		0		0	0				00:0					800	
DRILLING	OIL BURN	8			24	-	0.53	8.25	2.88	10.0	0.26	0.01	0.10	0.03	00.0	00.0
WELL IES!	GAS FLAKE		0			٥	+	00.00	0.00	0.00	0.00		00.0	0.00	0.00	0.00
1996	1996 YEAR TOTAL						13.02	20.26	319.67	33 13	180 84	18 78	13.05	347 00	20.44	70 94
										2				3	*	77.0
CALCULATION	DISTANCE FROM LAND IN MILES											2164.50	2164 50	2164 50	2164 50	KK71K 17
	65.0											2		2015	70-1-01-90	20.00

Color Colo	COMPANY		¥	LEASE	Ţ	WELL	LATITUDE	삙	CONTACT		П	REMARKS					
March Max Figure Max Figu	IL OIL & GAS CO	EAST CAMER	189	8418	╗	A-5 & A-6	29 07 14.12"	92 30' 09.02"	SUSAN B. BECN	EL .	877-6288	DRILL & COMPLE	ETE 2 WELLS, CA	DAMENCE PROD	JUCTION.		
Mode Control Control	ERATIONS	EQUIPMENT		MAX. FUEL	ACT. FUEL	RUN	TIME		Q	UNDS PER HO					TONS PER YEAR	2	
No. Mark House Mark House		Dlesel Engines	НР	GAL/HR	GALD												
PRIME HOVER-SOOTP desert Color			Ŧ	SCF/HR	SCF/D												
FRIME MOVERSORD desail			MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS	TSP	sox	NOX	VOC		TSP	SOx	XON	200	8
PRIME MOVER-Scorp deseil	S S	PRIME MOVER>600hp dieset	0	0	0.00	0	0	00:00	00:0	00:00	00:0	0.00	0:00	0.00	0.00	0.00	0.00
NATION PRINT EACH POOR deseil		PRIME MOVER>600hp diesel	0	0	0.00	0	0	00.00	00:0	00.00	0.00	0.00	0.00	800	000	00.0	000
AUXILIARY EQUIP-SCORP deseil (NOFM) Company of the company of		PRIME MOVER>600hp diesel	0	0	0.0	0	•	00.0	00:0	0.00	0.00	00.0	000	000	000	000	000
VESSELS-bodop dessel (CPEN) VESSELS dessel VESSELS-bodop dessel (CPEN) VESSEL dessel		AUXILIARY EQUIP<600hp dieset	0	0	00.0	0	0	0.00	00.0	000	000	000	000	000	000	8 6	8 6
VESSELS-SOOR desel (CRENA)		AUXILIARY EQUIP<600hp diesel	0	0	800	0	•	00	8	900	8 6	8 8	8 8	8 8	8 6	8 8	3 8
Precisite Action desired (TREM) 0		VESSELS>600hp diesel (WORK)	0	0	8	0	0	000	000	000	000	8 6	8 8	8 8	8 8	3 8	8 6
SUPPORTIVE LAY BARCE classes 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		VESSELS>600hp diesel (CREW)	0	0	0.0	0	. 0	8	000	000	800	8 0	8 6	8 6	8 8	8 8	8 8
Support VESSEL diesel 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.	ш	PIPELINE LAY BARGE diesel	٥	0	0.00	0	٥	0.00	800	000	000	000	800	800	866	86	86
PIPELINE BINKY BARCE clesel	ATION	SUPPORT VESSEL diesel	0	0	00.0	0	0	0.0	0.00	000	80	000	000	000	9 0	8 6	8 6
National Color Col		PIPELINE BURY BARGE diesei	0	0	0.00	0	0	00.00	00.00	00.0	8	000	000	000	000	9 6	000
National Color Col		SUPPORT VESSEL diesel	0	0	0.0	0	0	0.00	0.00	0.00	0.0	00.0	0.00	0.0	0.00	00.0	0.0
NATERIAL TUG diese 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_	DERRICK BARGE diesel	0	0	00:00	0	0	00.00	0.00	000	00 0	00 0	900	80	6	S	8
RECIP-600rp diesel	ATION	MATERIAL TUG diesel	c	c	8	c		8	2	8 8	3 6	8 6	8 6	8 8	3 6	8 6	3 8
RECIP-GOOM dissel 2050 0.000 0)	•	})	,	3	2	3	3	3	3	3	3	00.0	9.0
RECIP-GOORP diesel B-5	NOIL	RECIP.<600hp diesel		٥	00.0	0	٥	00.0	00.0	00.0	800	00'0	00.0	000	00 0	000	800
PECIP-45000p dieses		RECIP.<600hp diesel	85	4.1055	98.53	-	12	0.19	90:0	2.62	0.21	0.57	000	000	0	2	6
SUPPORT VESSEL disself lists Color Color		RECIP.<600hp diesel	2050	99.015	2376.36	24	365	4.52	1.37	63.22	5.06	13.68	19.78	2.98	276 89	22.15	59 93
Tittle Birth Emistgass 0		SUPPORT VESSEL diesel	0	0	00.00	0	0	0.00	0.00	000	000	00.0	000	000	0	2	2
RECIPAL Syciel learn rintigates 0 0.00 0.00 0 0.00		TURBINE nat gas	0	0	00:0	0	0		0.00	00.0	000	000		0	000	000	000
RECUPATION PARTICIPAL STANCE FROM LAND IN MILES Participal Standard (1987) Participal Standard		RECIP.2 cycle lean nat gas	0	0	000	0	0		0.00	00.0	800	000		000	8	8	000
RECIP 4 cycle rich matigas		RECIP.4 cycle lean nat gas	8	642.87	15428.88	24	365		90.0	2.38	0.14	0.32		0.26	10.42	0.63	139
MISC. MISC		RECIP.4 cycle rich nat gas	0	0	0.0	0	۰		0.0	0.00	00.0	000		000	8	000	000
MISC. PANK- PANK		St. Haville From your	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	00.00	0.0	000	8	800	000
TANK-		MISC.	BPD	SCF/HR	COUNT												
FLARE- PROCESS VENT- 0		TANK-	0			0	0				00:0					0000	
PROCESS VENT- Company Company		FLARE-		0		•	0		0.00	00.0	0.00	0.0		00.0	00:0	800	000
CHYCLOL STILL VENT.		PROCESS VENT-		0		0	0				0.00					0.00	
GLYCOL STILL VENT.		FUGITIVES-		00000000000000000000000000000000000000	32.0		365				0.00					80	
OIL BURN OIL BURN O		GLYCOL STILL VENT.		0		0	0				0.0					000	
1987 YEAR TOTAL 4.70 1.48 68.22 6.41 14.67 TION DISTANCE FROM LAND IN MILES ATION DISTANCE FROM LAND IN MILES ATION ATION <td< td=""><td>G EST</td><td>OIL BURN GAS FLARE</td><td>0</td><td>0</td><td></td><td>00</td><td>00</td><td>0:00</td><td>0.0</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>8 8</td><td>0.0</td><td>0.0</td></td<>	G EST	OIL BURN GAS FLARE	0	0		00	00	0:00	0.0	0.00	0.00	0.00	0.00	0.00	8 8	0.0	0.0
NST YEAR TOTAL 4.70 1.48 68.22 6.41 14.67 DISTANCE FROM LAND IN MILES																3	3
DISTANCE FROM LAND IN MILES	199.	YEAR TOTAL				-		4.70	1.48	68.22	5.41	14.57	19.78	6.25	287.32	22.78	61.32
DISTANCE FROM LAND IN MILES	MPTION																
	CULATION	DISTANCE FROM LAND IN MILES											2164.50	2164.60	2164 60	2164 AD	58748 47
029		65.0											20.1	3	2.5	700.00	00/00/0

					3	600	8 8	8 6	8 8	000		0.00	0.0	80	0.00	5	8 6		0.00	8.0	47.47	000	000	9 6	200	000		-	0.0			000	00.0		48.86	
		FAR			1 000	8	8 6	8 8	8 8	8.8		8	0.00	0.0	0.00	8	0.00		0.00	0.0	6.53	000	000	0.63	8 8	00.0		00:0	0.00	0.0	0.0	3 8	800	_	7.16	
	NOITOR	TONS PER YEAR			×ΟΝ	2	8 8	8 6	8 8	8 8		0.0	0.00	0.0	0.00	٥	8 8		8	0.0	217.55	000	8	10.42	000	0.0			0.00			0.0	0.00		227.98	
	COMMENCE DR	COMMENCE LI			xox	000	8 6	8 6	8 6	0.00		8	0.00	0.00	8 0.0	6	000		8.0	00.00	29.47	00.00	000	000	00	0.0			0.00			00.00	0.0		29.47	
	DRILL & COMPLETE 2 WELLS COMMENCE PRODUCTION	1			TSP	000	2	2	8 6	000		8. 0.	0.00	0.00	0.00	6	0.00		0.00	0.0	4.75					00.0						0.00			4.76	
REMARKS	DRILL & COMP	2000			8	000	000	6	000	0.00		0.00	0.00	0.0	8.	000	00.0		8.0	0.45	10.84	0.0	0.00	0.32	80	000			800			8.0	0.00		11.60	
PHONE	713/877-6288	OUR			VOC	00.00	000	000	000	80		8	0.0	0.00	8 6 6	000	0.00		800	90.0	1.49	0.00	0.00	0.14	0.0	0.00		00:00	9 9	0.0	8 8	800	0.00		1.70	
	ĒL	POUNDS PER HOUR			NOX	00.0	000	000	8	8		900	00.0	800	00:0	000	0.00		90.0	5.06	49.67	0.00	0.00	2.38	00:00	00.0			8			0.00	00.0		54.11	
CONTACT	SUSAN B. BECNEL	PO			sox	00:0	000	000	000	0.00		90.0	0.0	0.00	00.0	00.0	0.00		9.0	0.28	6.73	0.0	0.0	0.00	0.00	0.00			0.00			0.00	0.00		7.01	
LONGITUDE	92 30' 09.02"				TSP	00'0	0.00	000	000	0.00	3	0.0	0.0	0.00	8 0 0	0.00	0.00		0.0	9.0	1.08					0.00						0.00			1.13	
LATITUDE	29 07' 14.12"	TIME			DAYS	0	0	0	0	0		۰ د	۰ ۰	э ·	0	0	0	ļ	o !	12	365	0	0	365	0	0		ō	0	0 0	င် ရှင်	0	0		٠	
WELL		RUN			HR/D	0	0	0	0	0	•	5 (0 (o 1	0	0	0		۰ د	-	24	0	0	54	0	0		0 (۰ د	0	0	0	0			
PLATFORM	EC-189-A	L	GAL/D	SCF/D	SCF/D	00.0	0.00	0.0	00:0	0.00	9	8 6	80.0	9 6	8	00.0	0.00	00.0	3 5	98.53	2376.36	0.00	0.00	15428.88	0.0	0.0	COUNT				32.0					
LEASE	8418	MAX. FUEL	GAL/HR	SCF/HR	SCF/HR	0	0	0	0	0	,		0 0	> 0	Þ	0	0	,	,	4.1055	99.015	0	0	642.87	0	0.00	SCF/HR	Ç	5 (0	0		0			
BLOCK	189		롸	HP	MMBTU/HR	0	0	0	0	0	,		5 0		-	0	٥	,	> ;	8	2050	0	0	8	0	0	BPD	0				o				
AREA	EAST CAMERON	EQUIPMENT	Diesel Engines	Nat. Gas Engines	State State	PRIME MOVER>600hp diesel	PRIME MOVER>600hp diesel	PRIME MOVER>600hp diesel	AUXILIARY EQUIP<600hp diesel	VESSELS>600hp diesel	DIDEL INE LAY BABGE dissal	CHOCOCK WINDS CONTRACTOR	SUPPORT VESSEL GIBSBI		SOPPORT VESSEL Gesel	DERRICK BARGE diesel	MATERIAL TUG diesel	DECOP Approx	Contraction of the contraction o	KECIF. Abound diesel	SUPPORT VESSEL diesel	TURBINE nat gas	RECIP.2 cycle lean nat gas	RECIP.4 cycle lean nat gas	RECIP:4 cycle rich nat gas	III PANES net pas	MISC.	TANK-	FLAKE-	PROCESS VENI-	GLYCOL STILL VENT-	OIL BURN	GAS FLARE	1000 CEAD TOTAL	TO LANGE	
COMPANY	COASTAL OIL & GAS CO	OPERATIONS				DRILLING					PIDE! INE	TACITAL INTEGRAL	NO PELATION			FACILITY	INSTALLATION	MOLLOTIO	NO DOON													DRILLING	WELL TEST	900	ORB	

AIR EMISSION CALCULATIONS

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
COASTAL OIL &	EAST CAMERON	189	8418	EC-189-A	A-5 & A-6
Year		Emitted		Substance	
	TSP	SOX	NOX	HC	00
1996	18.76	13.25	347.98	22.14	76.27
1997	19.78	6.25	287.32	22.78	61.32
1998	4.75	29.47	227.98	7.16	48.86
1999	4.75	29.47	227.98	7.16	48.86
2000	4.75	29.47	227.98	7.16	48.86
2001	4.75	29.47	227.98	7.16	48.86
2002	4.75	29.47	227.98	7.16	48.86
2003	00.00	00'0	0.00	0.00	00.0
2004	0.00	00.00	0.00	0.00	0.00
2005	0.00	00'0	0.00	0.00	0.00
Allowable	2164.50	2164.50	2164.50	2164.50	55735.37

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

ONSHORE BASE FACILITIES, VICINITY MAP

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

ONSHORE SUPPORT BASE FACILITIES VICINITY MAP

The onshore support base facilities at Galveston, Texas will serve as the onshore support base facilities during the drilling and completion of wells A-5 and A-6, East Cameron Block 189. This will serve as port of debarkation for supplies and crews. Typical supply and crew boats will be utilized throughout the drilling, completion and hook-up operations. Boat and helicopter travel to and from the base will be over the most direct routes. No additional personnel will be required to conduct the proposed drilling, completion, and hook-up operations.

FREQUENCY OF TRAVEL

<u>Drilling</u>

Crew boats - four trips/week
Supply boats - seven trips/week
Helicopters - seven trips/week

<u>Production</u>

Supply boats - seven trips/week Helicopters - seven trips/week

Coastal Dili GAS CORP- SUPPLEMENTAL DOCD BEAUREGARD **EVANGELINE ALLEN** JASPER **NEWTON** BEST AVAILABLE COPY JEFFERSON DAVIS **ACADIA** TOTAL SECTION

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

EAST CAMERON AREA

BLOCK 189

OCS-G-8418

COMPANY CONTACT

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

EUGENE ISLAND AREA

BLOCK 189

OCS-G 8418

COASTAL OIL AND GAS CORPORATION

COMPANY CONTACT:

Susan B. Becnel 9 Greenway Plaza, S. 2763 Houston, Texas 77046

713/877-6288