

In Reply Refer To: RP-2-1

JUN 20 1986

Huffco Petroleum Corporation
Attention: Barbara J. Dougherty
Post Office Box 4436
Houston, Texas 77210

Gentlemen:

Reference is made to your Supplemental Development Operations Coordination Document (DOCD) received June 18, 1986, for Leases OCS-G 2845 and 2846, Blocks 426 and 427, respectively, West Cameron Area. This DOCD includes the activities proposed for Wells and Canals A and B.

In accordance with 30 CFR 250.34, revised December 13, 1979, and Notice to Lessees and Operators No. 84-1, this DOCD has been determined to be complete as of June 20, 1986, and is now being considered for approval.

Your control number is S-1849 and should be referenced in your communication and correspondence concerning this DOCD.

Sincerely yours,

(Orig. Sgd.) A. Donald Giroir

A. Donald Giroir
Deputy Regional Supervisor
Rules and Production

bcc: Lease OCS-G 2845 (OPS-3-2) (FILE ROOM)
Lease OCS-G 2846 (OPS-3-2) (FILE ROOM)
OPS-3-4 w/Public Info. Copy of the DOCD (PUBL. REC.)
DO-2

MJToIbert:amw:6/19/86 HUFF2845 Disk 1a

Office of
Program Services

JUN 23 1986

Information Services
SENIOR

HUFFCO PETROLEUM CORPORATION

INTERFIRST PLAZA
P.O. BOX 4436
HOUSTON, TEXAS 77210

June 16, 1986

FEDERAL EXPRESS

TELEPHONE (713) 650-1724
TELEX 762-810

U. S. Department of the Interior
Minerals Management Service
3301 N. Causeway Blvd.
Metairie, LA 70010

Attention: Regional Supervisor
Rules and Production

Re: OCS-G-2845 and 2846
West Cameron Blocks 426 and 427
Supplemental Development Operations
Coordination Document

Gentlemen:

In accordance with 30 CFR 250.34, as amended, Huffco Petroleum Corporation herein respectfully submits for your approval a Supplemental Development Operations Coordination Document for Leases CS-G-2845 and 2846, Blocks 426 and 427, West Cameron Area, Offshore, Louisiana.

Huffco Petroleum Corporation submits ten (10) copies of the proposed Supplemental Development Operations Coordination Document. Six (6) copies are considered "Proprietary Information" and are exempt from disclosure as allowed for in Subsection (b) Paragraph (9) of the Freedom of Information Act (51 Stat. 54; U.S.C. 552) as amended by Public Law 93-502, November 21, 1974, (99 Stat. 1561). Four (4) copies are considered "Public Information". As operator of the two wells proposed in this Supplemental Development Operations Coordination Document, Huffco Petroleum Corporation requests that this information and data considered to be exempt be dispensed for use only by the U. S. Government.

The anticipated date for drilling the first well proposed in this document is June 30, 1986; therefore, your prompt attention will be appreciated.

Sincerely,

HUFFCO PETROLEUM CORPORATION



Barbara J. Dougherty
Regulatory Technician

BJD/me

cc: E. C. Peet
D. E. Holt
MMS - Lake Charles District - Federal Express

"Public Information"

HUFFCO PETROLEUM CORPORATION

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

<u>Section</u>	<u>Item</u>
1	Introductory Letter
2	Brief History to Date
3	Proposed Type and Sequence of Development Activities and Timetable
4	Description of Drilling Vessel
5	Safety and Environmental Safeguards
6	Approximate Location of Proposed Wells and Plat
7	Structural Interpretations and Shallow Hazards Report
8	Onshore Support Base Facilities
9	Mud Components
10	Air Quality Report

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

BRIEF HISTORY TO DATE

Section 2

Texaco, Inc., acquired Lease OCS-G-2845 at Federal OCS Sale No. 36 held October 16, 1974, and subsequently drilled Well No. 1 under a Plan of Exploration. Well No. 1 was plugged and abandoned October 15, 1977. Columbia Gas Development Corporation, acquired Lease OCS-G-2846 at Sale No. 36 and drilled Well No. 1 under a Plan of Exploration. Well No. 1 was temporarily abandoned May 13, 1978. On June 19, 1979, Columbia and Texaco entered into a Joint Development Agreement relative to Blocks 426 and 427 with Columbia Gas Development Corporation designated operator.

Columbia Gas submitted a Plan of Development in August, 1979. Platform "A", located 5102' FNL and 844' FEL of West Cameron Block 426, was installed under this plan. Subsequently, A-1, A-2 and A-3 were drilled. The subject leases are currently held by production.

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

PROPOSED TYPE AND SEQUENCE OF
DEVELOPMENT ACTIVITIES AND TIMETABLE

Section 3

Huffco Petroleum Corporation is proposing the following development and production activities as designated operator of two wells, one well located in Block 426; the other, in Block 427.

A total of two wells will be involved in the supplemental development and production activities for West Cameron Area Blocks 426 and 427. These wells will be drilled from the same surface location of 5102' FSL and 844' FEL of West Cameron Block 426 and will be protected with dual caissons or a similar concept. These wells will be connected via a walkway to Columbia Gas's existing Production Platform "A".

Huffco's proposed Schedule for Drilling and Production is as follows:

<u>Activity</u>	<u>Dates</u>
Drill and Complete One Well (West Cameron 427 "A" to become West Cameron 427 No. 2)	June 30 - August 4, 1986
Drill and Complete One Well (West Cameron 426 "B" to become West Cameron 426 No. 2)	August 5 - September 15, 1986
Commence Engineering Design of Facilities	September 16 - October 7, 1986
Commence Fabrication and Hookup	October 8 - November 14, 1986
Commence Production	November 15, 1986

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

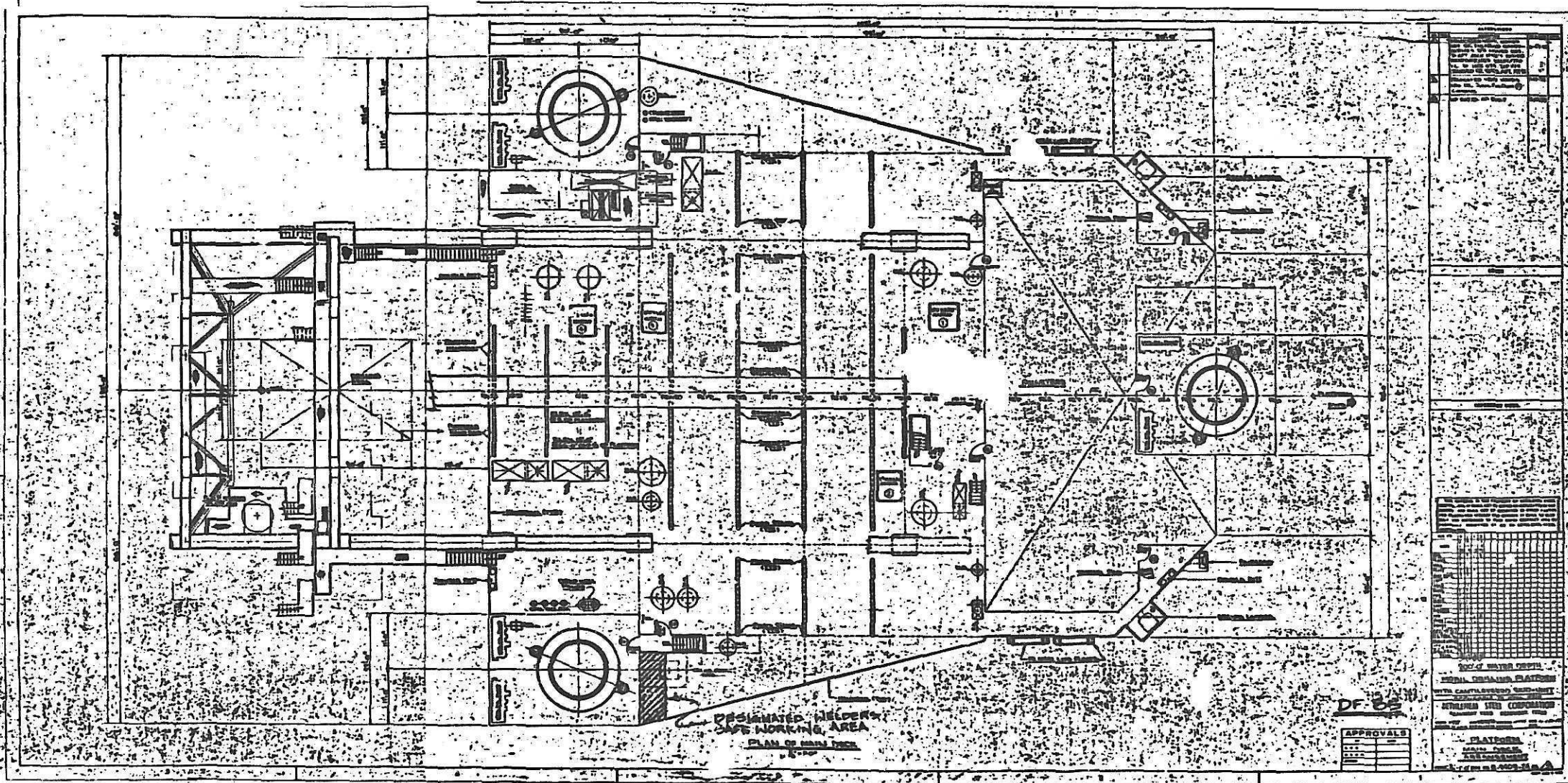
West Cameron Blocks 426 and 427

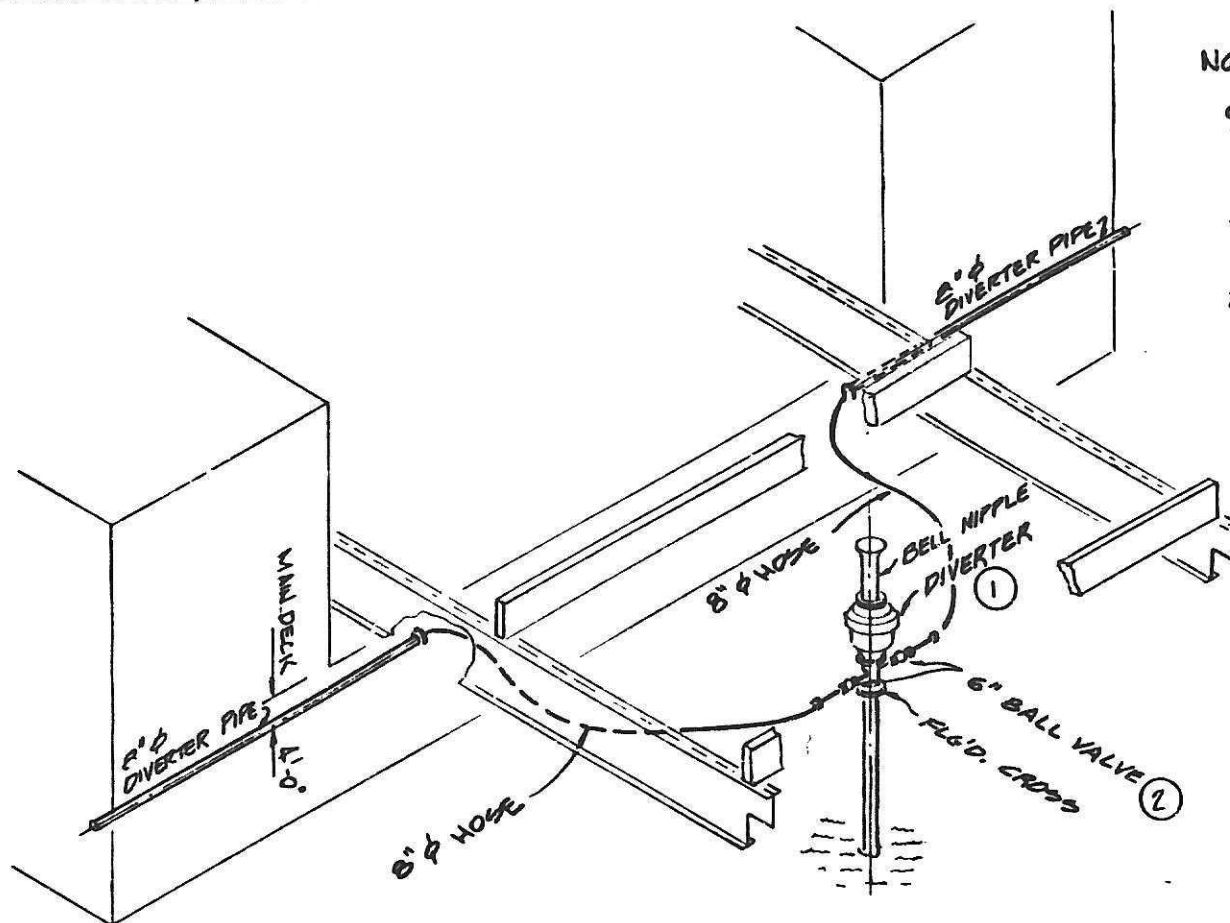
DESCRIPTION OF DRILLING VESSEL

Section 4

The water depth in West Cameron Blocks 426 and 427 is approximately 100 feet.

A jackup rig will be utilized for drilling these wells. Drawings of a rig, diverter system and BOP stack similar to that which will be used are included in this section.



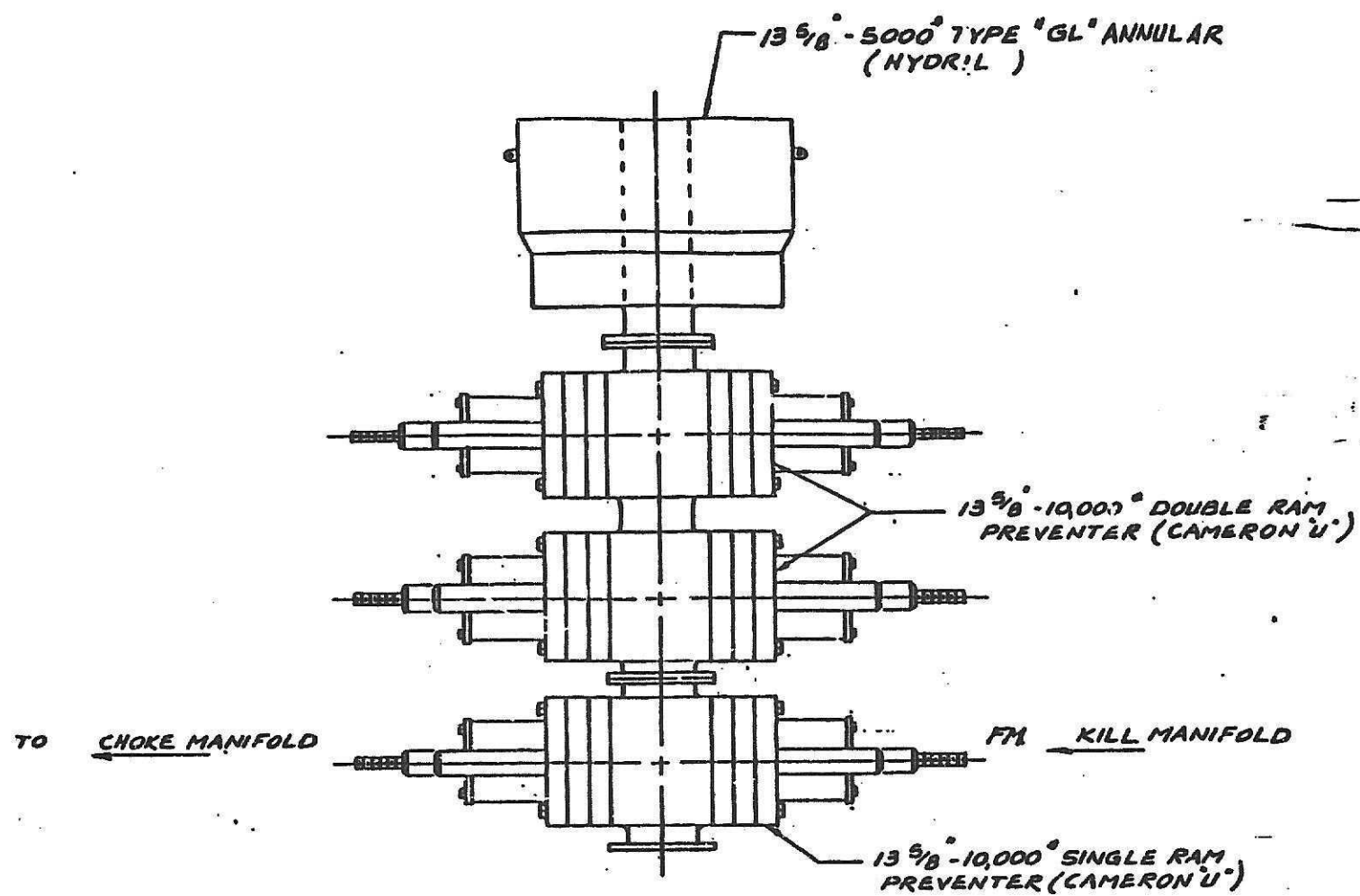


NOTE:

BALL VALVES ARE NORMALLY CLOSED; WITH CONTROLS LOCATED NEXT TO THE KOOMEY UNIT ON THE DRILL FLOOR. UPON SYSTEM INSTALLATION ONE (1) BALL VALVE IS PRE-SELECTED TO AUTOMATICALLY OPEN WHEN THE 1000 PSI REGAN DIVERTER IS CLOSED. THIS FUNCTION IS ACCOMPLISHED WITH ONE (1) LEVER ON THE KOOMEY CONTROL PANEL.

- ① - 30" REGAN KFL DIVERTER 1000 PSI
- ② - 6" AIR ACTUATED BALL VALVE

DF-85 DIVERTER PIPING
DWG. NO. 85-P.001



B.O.P. STACK

DF-85

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

SAFETY AND ENVIRONMENTAL SAFEGUARDS

Section 5

Safety features during drilling operations will include well control and blowout prevention equipment that meets or exceeds the requirements of OCS Order No. 2.

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

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 is neutralized prior to disposal.

Drill cuttings, sand 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 pollution control equipment including, but not limited to, deck drains, sumps, drip pans under the rig floor, and sewage treatment facilities.

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.

OIL SPILL CONTINGENCY PLAN

Huffco Petroleum Corporation's Oil Spill Contingency Plan has been approved by the Minerals Management Service. This plan designates an Oil Spill Team consisting of Huffco Petroleum Corporation personnel and contract personnel. This team's duties are to eliminate the sources of the oil spill, remove all sources of possible ignition, deploy the most viable means of available transportation to monitor the movement of the slick, and contain and remove the slick if possible.

Huffco Petroleum Corporation is a member of Clean Gulf Associates (CGA). The CGA has four permanent bases in Louisiana: at Venice, Grand Isle, Intracoastal City,

and Cameron, and two bases in Texas: at Galveston and Rockport. Each base is equipped with fast response skimmers and there is a barge mounted high volume open sea skimmer based at Grand Isle. In addition to providing equipment, the CGA also supplies advisors for clean-up operations. Response time for a spill in West Cameron Blocks 426 and 427 would be approximately eight hours depending upon the location of company-operated workboats or workboats available for charter.

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

APPROXIMATE LOCATION OF PROPOSED
WELLS AND PLOTS

Section 6

West Cameron Blocks 426 and 427 are located approximately 80 miles south of Cameron, Louisiana. The proposed locations are:

West Cameron Block 426 Surface Location : 5102' FNL & 844' FEL of West Cameron 426
OCS-G-2845
Well "B"

(This well will become West Cameron 426 No. 2)

West Cameron Block 427 Surface Location : 5102' FNL & 844' FEL of West Cameron 426
OCS-G-2846
Well "A"

(This well will become West Cameron 427 No. 2)

"Public Information"

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TEXACO

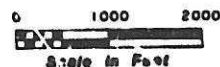
SL

B44 FEL

A-1
TDC.

COLUMBIA GAS
1-0CS 204
MD 0101
TVO 0102

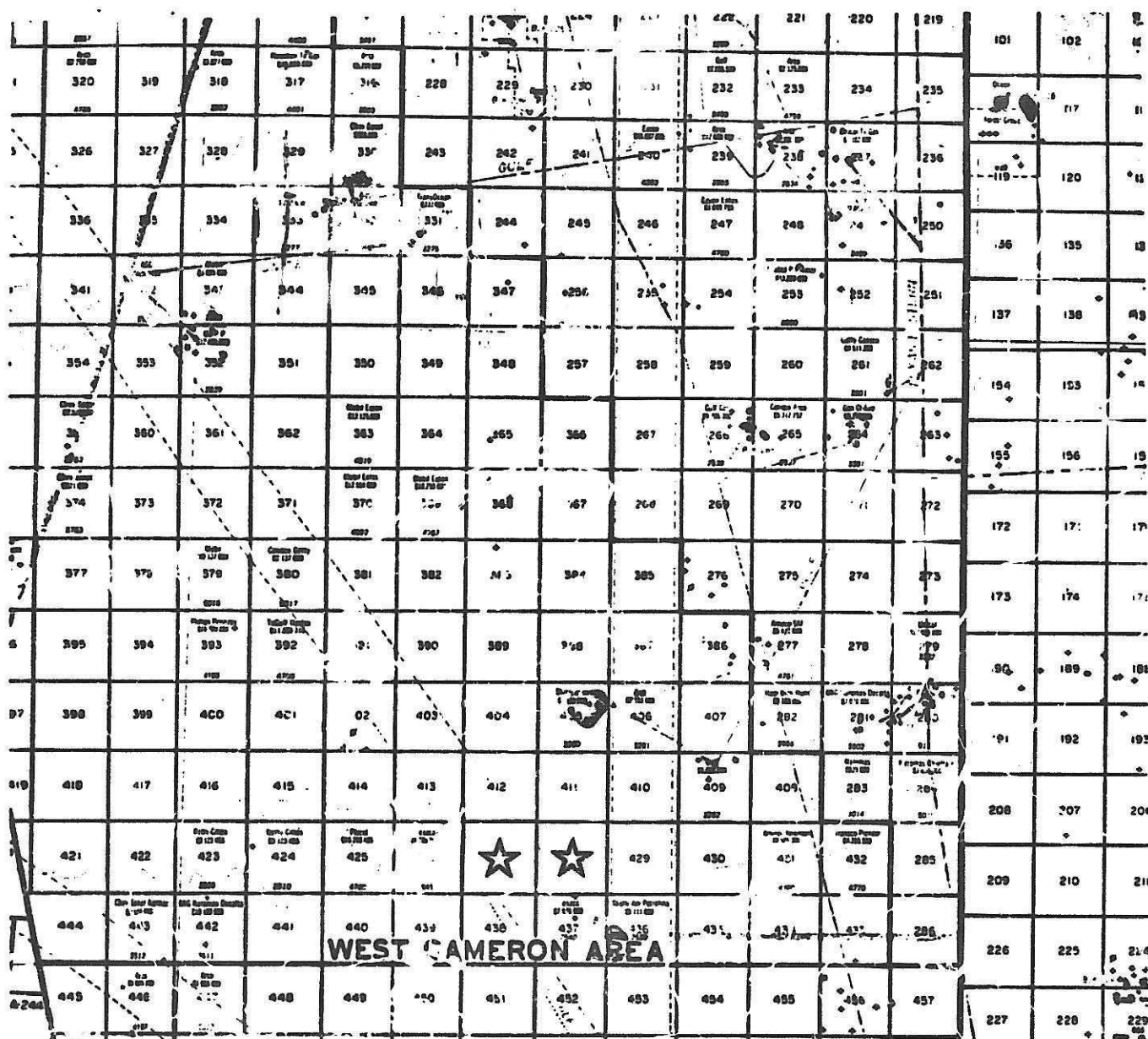
SL: 5102' FSL & 544' FEL of
West Cameron Block 426



WELL LOCATION PLAT

1" = 2000'

“Public Information



HUFFCO PETROLEUM CORPORATION

WEST CAMERON BLOCKS 426 & 427
Offshore Louisiana

INDEX MAP

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT


OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

STRUCTURAL INTERPRETATIONS AND
SHALLOW HAZARDS REPORT

Information on geological hazards relative to anomalies was discussed in the Plan of Development submitted by Columbia Gas in August, 1979. A review of the Shallow Hazards Survey data indicates the location of the proposed wells to be free of natural sea floor hazards, and no significant gas anomalies exist. Three wells have been drilled from this surface location and no shallow hazards were encountered.

The wells proposed at this location will be drilled in a safe and workmanlike manner.


Elton Wolter, Senior Geologist

"Public Information"

SUPPLEMENTAL DEVELOPMENT COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

ONSHORE SUPPORT BASE FACILITIES

Section 8

Huffco Petroleum Corporation will use existing onshore base facilities located at Marshwater City Offshore Terminal located approximately 10 miles east of Bayou, Louisiana. This will serve as port of debarkation for supplies and crews. No onshore expansion or construction is anticipated with respect to this activity.

This base is capable of providing the services necessary for the proposed activities. It has 24-hour service, a radio tower with phone patch, dock space equipment and supply storage base, drinking and drill water, etc.

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

no MUD COMPONENTS

Section 9

MUD COMPONENTS

COMPARABLE MUD PRODUCTS

I. ITEMS USED ON A ROUTINE BASIS

<u>IMCO</u>	<u>CHROMALLOY</u>	<u>MILCHEM</u>	<u>MAGCOBAR</u>	<u>DESCRIPTION</u>
Imco Bar	Barite	Barite/Milbar	Barite/Magcobar	Barite
Imco Gel	Bentonite	Milgel	Magcogel	Bentonite
Imco Lig	Lignite	Ligco	Tannathin	Lignite
RD-111	CI-CLS	Uni Cal	Spercene	Blended Ligno-sulfonate
Caustic Soda	Caustic Soda	Caustic Soda	Caustic Soda	Sodium Hydroxide
Aluminum Stearate	Aluminum Stearate	Aluminum Stearate	Aluminum Stearate	Aluminum Stearate
Lime	Lime	Lime	Lime	Calcium Hydroxide
Imco Thin	—	Ligcon	XP-20	Modified Lignite
Soda Ash Bicarb	Soda Ash Bicarb	Soda Ash Bicarb	Soda Ash Bicarb	Sodium Carbonate Bicarbonate of Soda
Poly Rx	—	Chemtrol-X	Resinex	Selected Polymer Blend
Imco MD	Detergent	M.D.	D-D	Detergent
Foamban	FB-3	LD-B	Magconol	Defoamer (Usually alcohol based)

II. ITEMS USED LESS FREQUENTLY

<u>IMCO</u>	<u>CHROMALLOY</u>	<u>MILCHEM</u>	<u>MAGCOBAR</u>	<u>DESCRIPTION</u>
DMS	DMS	DMS	DMS	Nonionic Mud Surfactant
Imco Loid	Starch	Milstarch	My Lo Gel	Pregelatinized Starch
CMC	Drioscos Reg.	CMC	CMC	Sodium Carboxy Methyl Cellulose
Cypan	Cypan	Cypan	Cypan	Sodium Polyacrylate
Permaloid	Starlose	Perma-Lose	Poly Sal	Organic Polymer
Drispac	Drispac	Drispac	Drispac	Polyanionin Cellulose
Gyp	Gypsum	Gyp	Gyp	Gypsum (Plaster of Paris)
HME/Super-drill	Hme/Superdril	HME/Superdril	HME/Superdril	Gilsonite (Treated) Natural Hydrocarbons + Wet-ting Agent
Black Magic DFT Supermix		Black Magic Supermix	Black Magic Supermix	Mud Concentrate for spotting fluid
Lubrikleen	Clean Spot	Lubrisal	Magolube	Organic Lubricant
Imco Myca	Mica	Mil-Mica	Mago-Mica	Mica-Flakes
Imco Plug	Nut Plug	Mil Plug	Nut Plug	Ground Walnut or other nut hulls
Ironite	Ironite	Ironite	Ironite	Synthetic Iron Oxide. H2S Scavenger
—	Zinc Carbonate Mil Gard		—	H2S Scavenger (Zinc Carbonate)

II. ITEMS USED LESS FREQUENTLY (CONT.)

<u>IMCO</u>	<u>CHROMALLOY</u>	<u>MILCHEM</u>	<u>MAGCOBAR</u>	<u>DESCRIPTION</u>
Seperan	Seperan	Seperan	Seperan	Polyacrylamide Polymer
Salt	Salt	Salt	Salt	Sodium Chloride
SAPP	SAPP	SAPP	SAPP	Sodium Acid Phosphosphate
—	—	Shale Trol	—	Ograno/Aluminum Compound
KCL	KCL	KCL	KCL	Potassium Chloride

III. OIL BASE MUD

Imco Spot	Clean Spot Concentrate	Mil-Free	Pipe Lax	Emulsifiers for spotting fluid
	Del-Vert			
	PE-11			
	SE-22			
Kenol-S	DFT	Carbo-Tec	Oilfaze & Vertoil	Emulsifiers, Gelling agents and fluid loss agents for oil muds
Ken-Gel	Delton	Carbo-Gel	VG-69	Organophilic clays for viscosifying
—	—	—	—	Asphaltic Viscosifier
Ken-Cal-L	Del-K Wa-33	Carbo-Mul	DV-33	Organic wetting agents.
VR	HTS Del G Del G 11	Carbo-Trol	DV-22	Fluid loss agents

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

OCS-G-2845 and 2846

West Cameron Blocks 426 and 427

PROJECTED AIR EMISSION SCHEDULE FOR SUPPLEMENTAL DEVELOPMENT PROJECT

Section 10

PROJECTED AIR EMISSION SCHEDULE FOR SUPPLEMENTAL DEVELOPMENT PROJECT

GENERAL INFORMATION

Location of Facility: West Cameron Block 426
OCS-G-2845
Distance Offshore: 80 miles
Type of Rig: Jackup
Operator: Huffco Petroleum Corporation
P. O. Box 4436
Houston, Texas 77210
Contact Person: Barbara Dougherty
Total Well Footage to be Drilled: 20,000'
Date Drilling Will Begin: June 30, 1986
Date Drilling Will End: September 15, 1986

MAJOR SOURCE (OFFSHORE)

Power used aboard drilling vessel; approximate footage drilled 20,000'.*

<u>Emitted Substance</u>	<u>Projected Emissions tons/year**</u>
	<u>1986</u>
CO	4.01
SO ₂	1.23
NO _X	18.51
VOC	1.48
TSP	1.32

*Based on 60 hphr/ft. from Table 4-3, "Atmospheric Emissions from Offshore Oil and Gas Development and Production", EPA No. 450/3-77-026, June, 1977.

**Emission factors from Table 3.3-1, "Compilation of Air Pollutant Emission Factors", EPA Report AP-42, September, 1985.

Projected Air Emissions
West Cameron Blocks 426 and 427
Huffco Petroleum Corporation
Page 2

MINOR SOURCES (OFFSHORE)*

Including helicopter landing and take-off (4 trips/week); crew boats (4 trips/week); supply boats (5 trips/week); and loading and unloading operations.

<u>Emitted Substance</u>	<u>Projected Emissions (tons/year)</u>
CO	.05
SO ₂	.09
NOX	.22
VOC	.02
TSP	.02

*Emission factors from Table 4.4, "Atmospheric Emissions from Offshore Oil and Gas Development and Production", EPA No. 450/3-77-026, June, 1977.

TOTAL ALL SOURCES (TONS/YEAR)

<u>1986</u>	<u>CO</u>	<u>SO₂</u>	<u>NOX</u>	<u>VOC</u>	<u>TSP</u>
Major	4.01	1.23	18.51	1.48	1.32
Minor	<u>.05</u>	<u>.09</u>	<u>.22</u>	<u>.02</u>	<u>.02</u>
Total	4.06	1.32	18.73	1.50	1.34

ONSHORE SOURCES

These should be about the same as minor sources unless new facilities are installed at the onshore base. No additional facilities are required or planned at this time.

EMISSION EXEMPTION DETERMINATION

$$\text{For CO: } E = 3400D^{2/3} = 3400(80)^{2/3} = 63,126 \text{ tons/year}$$

$$\text{For SO}_2, \text{ NOX, VOC \& TSP: } E = 33.3D = 33.3(80) = 2,664 \text{ tons/year}$$

As per DOI/MMS regulations, this facility is exempt from further air quality review as it has been determined that its operations will not have significant adverse environmental impact on air quality.