

TO: OMS-2-2
FROM: JS-7-1

DATE 4/13/82
MINERALS MANAGEMENT SERVICE
1982 APR 14 P 12:55

Supplemental Plan of Exploration [REDACTED] Lease OCS 044 and 046
Control No. S-0842. EI 89+95
O'Dew Oil & Gas Co.

MINERALS MANAGEMENT SERVICE
1982 APR 14 P 12:54
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EXPLORATION SURVEY

APR 13 1982

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ODECO OIL & GAS COMPANY

Supplemental Plan of Exploration

OCS 044 Well #19 Eugene Island Block 89

OCS 046 Well #13 Eugene Island Block 95

Eugene Island Block 89 FVeld

Submitted by: E. S. Breda

E. S. Breda
Oil & Gas Supervisor

DATE: APR 12 1982

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ODECO OIL & GAS COMPANY
Supplemental Plan of Exploration
Eugene Island Blocks 89 and 95
Eugene Island Block 89 Field

BEST AVAILABLE COPY

I. General

The OCS 044 lease in block 89 has three existing wells. We now propose to drill an additional well - namely OCS 044 #19..

The OCS 046 lease in block 95 has seven existing wells. We now propose to drill an additional well - namely OCS 046 #13.

In accordance with 30 CFR 250.34, revised December 13, 1979 this Supplemental Plan of Exploration is being submitted. Should the proposed wells have no commercial production they will be plugged and abandoned with casings removed 15' below mud line.

II. Tentative starting and completion dates, surface and bottom hole locations, total depth, and objective of proposed wells:

Well Number: OCS-044 #19, Eugene Island Block 89
Estimated Commencement date: September 1, 1982
Estimated Completion date: October 15, 1982
Surface Location: 6150' FSL and 940' FWL of Eugene Island Block 89
Bottom Hole Location: 5600' FSL and 50' FWL of Eugene Island Block 89
Total Depth: 9,800' SS
Objective: See Geological Program

Well Number: OCS-046 #13, Eugene Island Block 95
Estimated Commencement date: October 15, 1982
Estimated Completion date: November 30, 1982
Surface Location: 6400' FSL and 4000' FWL of Eugene Island Block 95
Bottom Hole Location: Straight hole
Total Depth: 9,800' SS
Objective: See Geological Program

III. Facility

- A. Drill Barge - ODECO's "Mr. Charlie"
See attachment for rig specifications, pollution control and diverter system.
- B. No additional facilities will be added offshore or onshore as a result of these exploration activities.

IV. Oil Spill Contingency Plan

Odeco Oil and Gas Company fulfills its oil spill contingency plan by being a member of Clean Gulf Associates, P. O. Box 51239, New Orleans, Louisiana, 70151, an agency which handles clean up operations in the event of an oil spill. Fast Response Service can be obtained by calling Halliburton Services in Harvey, Louisiana (504) 366-1735.

- A. Estimated deployment time of the equipment to this area is 12 hours.

- B. Description of clean up equipment. See Supplements A and B, development dated

V. Fuel Consumption - Drilling Operations

Drilling rig uses an average of 50 bbls. of diesel fuel per day during drilling operations. Each supply boat uses approximately 25 bbls. (42 gal/bbl.) of diesel per day. Two boats service drilling rig daily.

	<u>Boats</u>	<u>Rig</u>
Approx. Rig Days	90	90
	x50	x50
Total Fuel Consumption	4500 bbls.	4500 bbls.

VI. Safety Standards and Programs - Drilling Operations - See Supplemental Plan of Development dated October 14, 1981 for OCS 0228, Eugene Island Block 93.

VII. Base of Operation

- A. Marine service to service drilling operations is provided from LAMCO Dock in Dulac, Louisiana.
- B. Air Service (helicopter) is provided from Houma, Louisiana.

VIII. Type Drill Mud Used and Chemical Components

A. Bariod

B. Chemical Components

Aktaflo-s	Mixed oxyethylated phenols
Aluminum Stearate	$(\text{CH}_3(\text{CH}_2)_{16}\text{COO})_3\text{AL}$
Aquagel	Sodium montmorillonite
Bariod	Barium Sulfate
Bicarbonate of Soda	Na NCO_3
Carbonox	Lignitic Humic Acid Powder
Caustic Soda	Sodium Hydroxide
CC-16	Caustized Carbonox
Cellex	Sodium Carbocymethylcellulose
Destrid	Dextrinized Polysaccharide Powder
HME	Selective, nonionic surfactant - Chemco product
Impermex	Starch
Lime	Calcium Hydroxide
Micatex	Mixa Flakes
Q-Broxin	Ferrochrome Lignosulfonate
Sapp	Sodium Acid Pyrophosphate
Soda Ash	Sodium Chromate
Soltex	Hydrocarbon Powder
Superdril	Gilsonte
Torq-Trim	Biodegradable, non toxic lubricant

IX. Archeological & Shallow Hazards Survey

This lease being a mature producing area, Archeological and Shallow hazards surveys are not required. See Shallow Hazard letter.

X. Gaseous Emission Data

Drill Barge "Mr. Charlie" be used. Estimated rig days for drilling these wells will be 90 's.

A. Rig: Emission calculated for 90 days - stated in (lbs/day) Ton/90 days. See attachment for emission summary by rig and basis for calculation of Summary.

Drill Barge "Mr. Charlie"
(1 lbs./day) Tons/90 days

1. CO (369.48) 16.63
2. Hydrocarbon (79.40) 3.57
3. NO_x (2347.18) 105.62
4. SO₂ (190.90) 8.59
5. Particules (25.53) 1.15

B. Helicopters: Estimate 14 Round Trips in 90 days, two and one half hours per Round Trip = 35 hours operating time. Stated in (lbs./day) Tons per 90 days, averaged to 90 days. See attached for emissions per hour of use.

1. CO (.19) .01
2. Hydrocarbon (.04) .00
3. NO_x (.86) .04
4. SO₂ (5.52) .25
5. Particules (.07) .00

C. Boats (crew): Sixty Four (64) trips in 90 days at 5 hours per round trip = 320 hours. (Supply) Forty (40) trips in 90 days at 11 hours round trip = 440 hours. 320 + 440 = 760 operating hours. Stated in (lbs/days) Tons per 90 days, averaged to 90 days. See attached for emission per hour of use.

1. CO (57.42) 2.58
2. Hydrocarbon (21.10) .95
3. NO_x (265.16) 11.93
4. SO₂ (17.73) .80
5. Particules (19.42) .88

D. Supply Base - 30 ton crane. Estimated use in 135 days - 310 hours. Stated in (lbs./day) Tons 90 days. Averaged for 90 days. See attached for emission per hour.

1. CO (12.98) .58
2. Hydrocarbon (1.21) .05
3. NO_x (31.62) 1.42
4. SO₂ (1.62) .07
5. Particules (1.72) .08

XI. Attachments

- A. Vicinity Map
- B. Geological Program OCS 044 #9 with structure and salt maps
- C. Geological Program OCS 046 #13 with structure and salt maps
- D. Shallow Drilling Hazards statement with seismic map for wells 044 #19 and 046 #13.
- E. Drill Barge Data - "Mr. Charlie" including schematic of diverter and statement of pollution control.
- F. Emission Summary with basis of calculations for drill barge.
- G. Emission hourly rates for boats, helicopter, and crane.

AREA OF WORK
0 100 MI 2 200 MI
1:250,000 SCALE
VICINITY MAP

EUGENE ISLAND AREA

89

OCS-044

Oil Field
Area

88

OCS-043

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ODECO OIL AND GAS COMPANY

JANUARY 15, 1982

GEOLOGICAL PROGRAM AND WELL RECOMMENDATION
OCS-044 WELL NO. 19 - EUGENE ISLAND BLOCK 89

LOCATION:

Surface: 6150' FSL and 940' FWL of Block 89.

1st Target: ("S" Sand) 5975' FSL and 650' FWL of Block 89 at 8200'ss.

Tolerance: 100' radius circle centered on the above target.

2nd Target: ("U" Sand) 5700' FSL and 200' FWL of Block 89 at 9400'ss.

Tolerance: 100' radius circle centered on the above target.

PBHL: 5600' FSL and 50' FWL of Block 89.

TOTAL DEPTH:

9800'ss.

WELL CLASSIFICATION:

Exploratory

LOGGING SERVICES:

1.) ISF-Induction Spherically Focused

Run #1 - Base of conductor to TD of surface hole.

Run #2 - Base of surface casing to TD.

2.) FDC/CNL - Formation Density Compensated/ Compensated Neutron Log

Over potential hydrocarbon bearing zones as indicated by the ISF.

3.) HRD-High Resolution Dipmeter

Run #1 - Base of surface casing to TD.

4.) SWC-Sidewall Cores

Over resistive and porous zones as indicated by other services.

Geological Program and Well Recommendation
OCS-044 Well No. 19 - Eugene Island Block 89

Page 2

GEOLOGICAL PROGNOSIS: 0 - 3500 Pleistocene
 3500 - 8700 Pliocene
 8700 - TD Miocene

WELL OBJECTIVES: This well is designed to develop proven reserves in the "S" sand on the northwest flank of the dome. It will also evaluate the "T", "T₂", "T₄", and "U" sands which have not been previously tested in this fault block. These sands have been proven productive in nearby fault blocks. Neither salt nor abnormal pressure is expected at TD.

Submitted by: K. L. Treese
K. L. Treese
Development Geologist

Approved by: H. A. Vallas
H. A. Vallas
Vice President
Development Geology

Approved by: L. B. Carpenter (by L. B.)
L. B. Carpenter
Assistant to the
Senior Vice President

APPROVALS:

CNG Producing Company

By: _____ Date: _____

ODECO OIL AND GAS COMPANY

MARCH 4, 1982

GEOLOGICAL PROGRAM AND WELL RECOMMENDATION
OCS-046 WELL NO. 13 - EUGENE ISLAND BLOCK 95

LOCATION: Surface - 6100' FSL and 4000' FWL of Block 95.

PIRL: Same as surface.

TOTAL DEPTH: 9800' ss.

WELL CLASSIFICATION: Exploratory

LOGGING SERVICES:

1.) ISF-induction Sph. ly Focused

Run #1 - Base of conductor to TD of surface casing.

Run #2 - Base of surface casing to TD.

2.) FDC/CNL - Formation Density Compensated/
Compensated Neutron Log

Over potential hydrocarbon bearing zones as indicated by the ISF.

3.) HRD - High Resolution Dipmeter

Run #1 - Base of surface casing to TD.

4.) SWC - Sidewall Cores

Over resistive and porous zones as indicated by other services.

GEOLOGICAL PROGNOSIS: 0 - 3500 Pleistocene
3500 - 8600 Pliocene
8600 - TD Miocene

Geological Program and Well Recommendations
OCS-046 Well No. 13 - Eugene Island Blc. 4, 95

Page 2

WELL OBJECTIVES:

This well is planned to test the Pliocene Q Sand in a separate fault block from the Mobil F wells. The well could prove reserves of up to 12 BCFG in the Q Sand and is expected to produce approximately 4 BCFG. The Upper Pliocene zones which are missing in the OCS 685 #3 well are expected to be present in this well and will also be tested. Neither salt nor abnormal pressure is expected at TD, however, due to uncertainty in the amount of missing section, care should be taken in drilling below the Q Sand.

Submitted by: K. J. Treese
K. J. Treese
Development Geologist

Approved by: A. G. Place

H. A. Vallas
Vice President
Development Geology

APPENDIXES:

Pet. Lewis

By: _____ Date: _____

W. P. Properties

By: _____ Date: _____

ATTACHMENT TO GEOLOGICAL PROGRAM & WELL RECOMMENDATION

WELL SAMPLES:

Collect 2 sacks per joint from 7000' to total depth. The ODECO Engineer or Toolpusher at the well site will arrange for the most expeditious transportation to the appropriate shore base, from thence by "Flat Slat" to New Orleans and addressed to the attention of Crosbie-Macorster, 2705 Division Street, Metairie, Louisiana 70002. All samples should be clearly marked with the lease, well number and depth taken.

IMPORTANT NOTE:

If it should become necessary to by-pass the shale shaker, a bucket should be placed on the discharge line with a piece of junk, i.e., a broken shovel, steel plate or mesh standing erect to break the flow of mud. Even though this will contain lost circulation and other extraneous materials, sufficient sample can be caught to aid paleontological evaluation. Samples thus caught should be sacked in the usual manner and at the specified interval.



TELEX: 58-4124
PHONE: 504-561-2811

ODECO OIL & GAS COMPANY

ODECO BUILDING • 1600 CANAL STREET
MAIL TO: P.O. BOX 61780, NEW ORLEANS, LA. 70161

April 7, 1982

Mr. E. J. Hubble
District Supervisor
U.S. Department of Interior
Geological Survey
P. O. Box 52289
Lafayette, Louisiana 70501

Dear Mr. Hubble:

Geophysical data in the vicinity of the proposed surface location of the Odeco Oil & Gas Company No. 19 OCS-044 well in Eugene Island Block 89 has been reviewed and there appears to be no evidence of shallow drilling hazards.

As indicated on the attached plat the seismic line reviewed was EI-78-21.

In addition to the seismic line, the log of the Odeco-Midwest Oil Company, No. 2 State Lease 681 was reviewed and no shallow hazard evidence was seen.

Respectfully submitted,

M. L. James
Sr. Staff Geophysicist

MLJ/aah
Enclosure

ODECO OIL & GAS COMPANY
ODECO BUILDING • 1600 CANAL STREET
MAIL TO P.O. BOX 61780, NEW ORLEANS, LA 70161

April 7, 1982

Mr. E. G. Hubble
District Supervisor
U.S. Department of Interior
Geological Survey
P. O. Box 52289
Lafayette, Louisiana 70501

Dear Mr. Hubble:

Geophysical data in the vicinity of the proposed surface location of the Odeco Oil & Gas Company No. 13 OCS-046 well in Eugene Island Block 95 has been reviewed and there appears to be no evidence of shallow drilling hazards.

As indicated on the attached plat, the seismic line reviewed was LO-110A.

In addition to the seismic line the log of the Mobil Oil Corporation No. 3 State Lease 685 was reviewed and there appears to be no evidence of sands which would cause shallow drilling hazards.

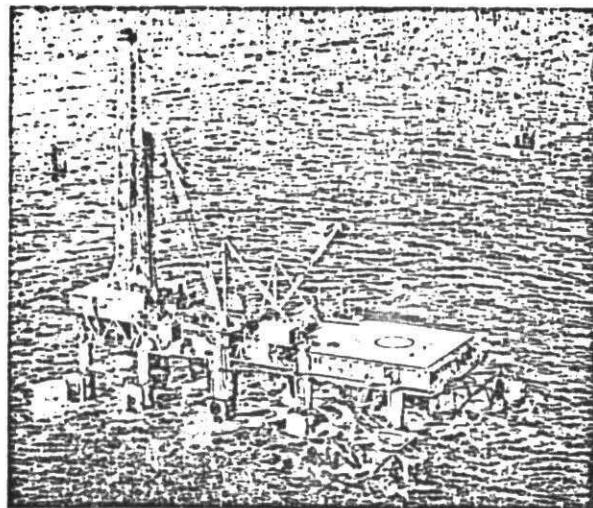
Respectfully submitted,

M. L. James

M. L. James
Sr. Staff Geophysicist

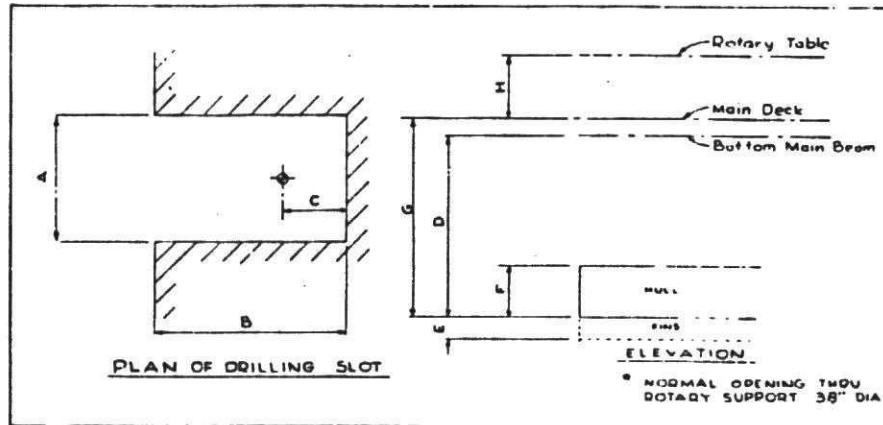
MLJ/aah
Enclosure

MR. CHARLIE



BARGE DATA

HULL Length 220', Beam (with pontoons) 134'; Depth 14' with 5' fins
SLOT Length 38', Width 26'; Center of rotary 13' from back of slot
WORKING DECK 220' long by 60' Wide - Lowest platform structurals above bottom - 58'
 Platform deck above bottom 63'
QUARTERS For 45 men
HELIPORT Length 80', Width 60'



CLEARANCES & DIMENSIONS

	DIMENSIONS								Operating Depth		
	A	B	C	D	E	F	G	H	Maximum Normal	Hurricane Season	Minimum
Mr. Charlie	26'-0"	38'-0"	13'-0"	58'-0"	5'-0"	14'-0"	59'-2"	15'-4"	40'-0"	32'-0"	14'-0"

ODECO
INTER-OFFICE CORRESPONDENCE

TO: R. S. Gloger

LOC.: N. O.

DATE:

CARBONS TO:

FROM: W. J. Wilkinson

LOC.: N. O.

SUBJECT: Pollution and Waste Disposal from D/B Mr. Charlie

The D/B Mr. Charlie was constructed with certain features which were incorporated specifically to stop any pollutant likely to be found during normal drilling operations. It is equipped with drip pans and/or drians under floor and other machinery to retain all oil spills.

Provisions have been made for the collection, storage, and later transfer to shore base of all used oil from machinery on the drilling platform.

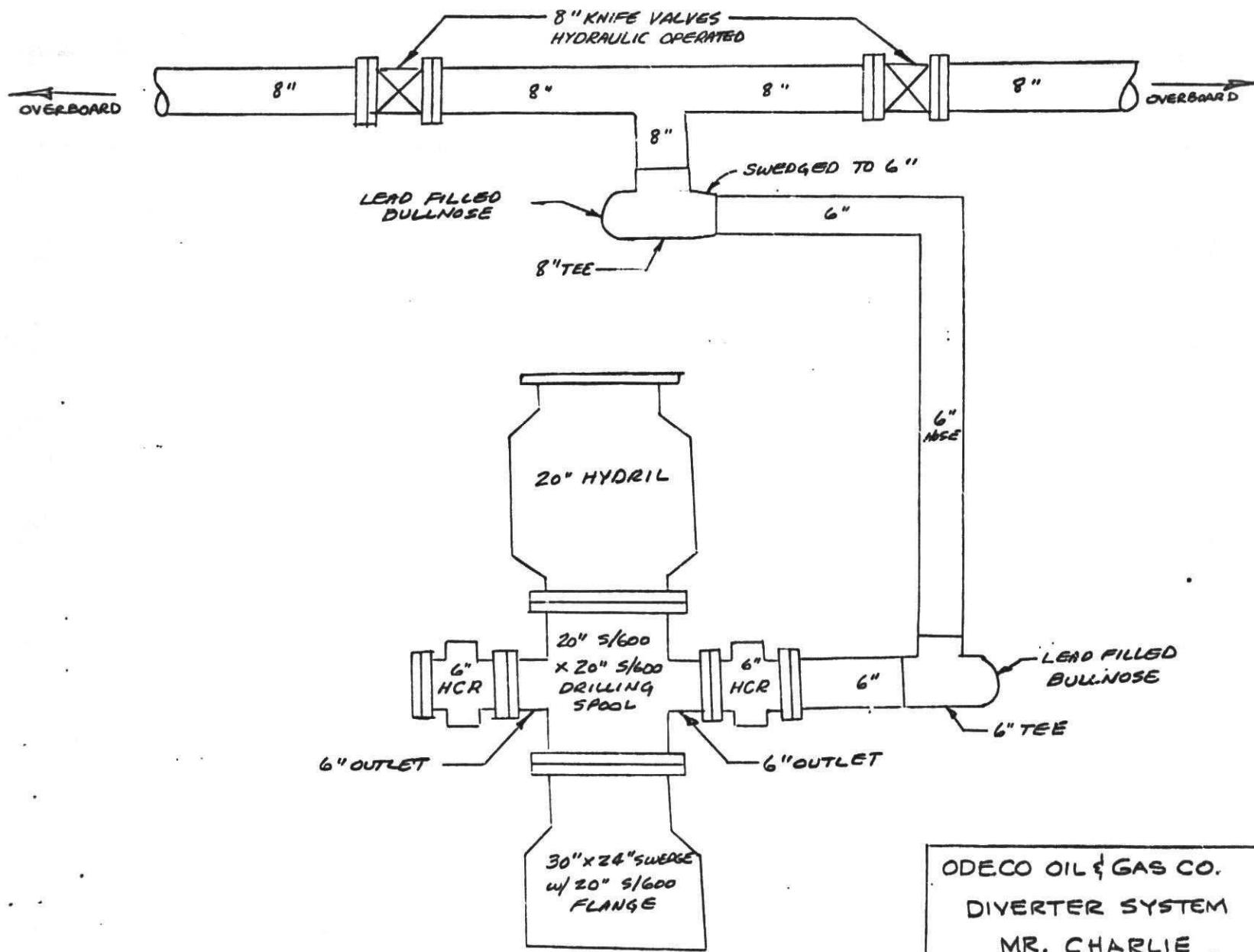
Containers have been provided to transfer solid waste, such as boxes, cartons, cans, etc., which cannot be incinerated to a shore base.

Copies of OCS Order Nos. 1 through 10 which are applicable to the contract drilling operations have been furnished the toolpushers. Rig supervisory personnel have been shown the seriousness of control-of... pollutants.

Should it come to your attention that any liquids or solids have escaped into the Gulf without our knowledge, I sincerely ask that you bring this to my attention.


W. J. Wilkinson

WJW/ggt



BLOWOUT PREVENTER ACTIVATION

The Blowout Preventers on the drilling rig Mr. Charlie are HYDRAULICALLY activated from controls located on the rig floor, and the living quarters.

DIVERTER SYSTEM OPERATIONAL PROCEDURE

The Diverter System as shown in Attachment I is installed so that the HCR valve (s) will open automatically when the hydral is closed. The diverting valves will remain open and be used to divert wellbore fluids downwind when necessary.

Prior to drilling the hydral shall be closed and seawater pumped through the system. The diverting valves shall be function tested at this time.

In the event it is necessary to use the diverter system for well control, the following sequence is recommended:

- A) Clear Kelly from hydral.
- B) Close hydral
- C) Use diverting valves to direct well fluids downwind
- D) Pump mud in hole as fast as possible. Pump seawater if mud is expended.

"MR. CHARLIE"

EMISSIONS SUMMARY

SOURCE #	SOURCE	STACK HT. (Ft.)	STACK DIA. (Ft.)	CO	HYDROCARBON	EMISSIONS (TONS/YEAR)		
						NO _x	PARTICULATE	SO ₂
1	F.M. #38D 8-1/8	40	.33	32.9	7.08	209.0	2.28	17.0
2	F.M. #38D 8-1/8	40	.33	32.9	7.08	209.0	2.28	17.0
3	Murphy MP-20 (Aux)	40	.66	0.02	Neg	0.13	Neg	0.01
4	Murphy MP-21 (Aux)	40	.66	0.02	Neg	0.13	Neg	0.01
5	CAT D-353	40	.66	0.05	0.01	0.32	Neg	0.02
6	Air comp (GM 3-71)	40	.33	0.31	0.06	1.97	0.02	0.16
7	Mix Pump (GM 4-71)	40	.33	0.48	0.10	3.05	0.03	0.25
8	Hobart Welder (GM 2-71)	40	.25	0.04	0.01	0.25	Neg	0.02
9	Schlumberger (4-71)	40	.13	0.05	0.01	0.32	Neg	0.03
10	Halliburton (Det 353) HT-400	40	.25	0.08	0.02	1.51	0.01	0.04
11	Halliburton (Det 8V-71)	"	.25	0.29	0.06	1.84	0.02	0.15
12	Halliburton (Det 8V-71)	"	.125	0.29	0.06	1.84	0.02	0.15

Total 67.43 14.49 428.36 4.66 14.84

$\times 2000 = 1\text{bs./yr.}$ 134,860 28,980 856,720 9320 69,680
 $\div 365 = 1\text{bs./day}$ 369.48 79.40 2347.18 25.53 190.90

Pollutant from diesel engines on drilling rigs were calculated using the following:

$$\frac{\text{TONS}}{\text{YR}} = .0096563 \times C \times P \times (\text{BHP})$$

where

- .0096563 = conversion from Grams/hr. to Tons/yr.
- C = Grams/BHP-Hr of pollutant - see (1)
- P = Average % useage in a yr. - see (2)
- BHP = Rated HP of engine

(1) Available data from manufacturers of diesel engines and theoretical combustion data was surveyed, and the following values chosen:

<u>Pollutant</u>	<u>Grams/BHP-HR</u>
NO _x	18.3
SO ₂	1.49
Hydrocarbon	0.62
CO	2.88
Particulate	0.20

(2) Operation of equipment data from several rigs was reviewed to obtain % useage. Based on this review, the following data was utilized in preparing emissions estimates. This data is probably conservative, because it was assumed that engines were operating at all times at rated horsepower:

<u>Engine Application</u>	<u>Average Yearly % Use</u>
Main Engine	74
Emerg. Engine	.0.5
Primary Crane	7
Back Up Crane	3
Fork Lift	3
Cement Unit	3
Logging Unit	1
Welding Unit	2
Desander/Desiliter	10
Cold Start Air Comp.	2
Rig Air Comp.	10
Main Mud Pump	50
Mud Mix Unit	10
Draw works	60
Bulk Air Comp.	3

Basis For Calculations of Gaseous emissions of
Boats - Helicopters and Crane at Supply Base
for Rig Related Operations

I. Boats: Equiped with two V 12 marine engines and two generators
Lbs/Hour

CO	Hydrocarbon	No _x	SO ₂	Particules
6.8	2.5	31.4	2.1	.3

II. Helicopter: For transportation of men. Size 206
Lbs/Hour

CO	Hydrocarbon	No _x	SO ₂	Particules
.5	.1	2.2	14.2	.2

III. Supply Base - Crane - with GM 6-71 diesel engine with 228 BHP
driving a 30 ton crane
Lbs/Hour

CO	Hydrocarbon	No _x	SO ₂	Particules
3.77	.35	9.18	.47	.5