DATE 7-1-82

TO: OMS-2-2

FROM: OS-7-1

[illegible] 82 JUL -1 P 2:04

Supplemental Plan of Exploration [redacted], Lease OCS-G 043

Control No. S-0898.

EI Blk 88
ODECO Oil & Gas Co

NOTED - JOSEPH

ODECO OIL & GAS COMPANY

Supplemental Plan of Exploration

OCS 043 Well #8 Eugene Island Block 88

Eugene Island Block 89 Field

1982 JUL -1 P 2:04

Submitted by: E S Breda

E. S. Breda
Oil & Gas Supervisor

Date: JUN 30 1982

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ODECO OIL & GAS COMPANY

Supplemental Plan of Exploration

Eugene Island Block 88

Eugene Island Block 89 Field

I. General

The OCS 043 lease has three existing wells, each has its individual surface structure and two additional wells are "bottomed" on the lease with their surface structure being from the F platform in Block 95. A plan has also been submitted to drill OCS 043 #7. We are now submitting this plan to drill an additional well - namely OCS 043 #8.

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

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

Well Number: OCS-043 #8, Eugene Island Block 88
Estimated Commencement date: August 15, 1982
Estimated Completion date: September 15, 1982
Surface Location: 5150'FSL and 1500'FWL of Eugene Island Block 88
Bottom Hole Location: Straight Hole
Total Depth: 10500' 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 & 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 Supplemental Plan of Development dated October 14, 1981 for OCS-0228 Eugene Island Block 93.

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.

	BOATS	RIG
Approx. Rig Days	30	30
	x50	x50
Total Fuel Consumption	1500 bbls.	1500 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	$(CH_3\ (CH_2)_{16}COO)_3AL$
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 Carboxymethylcellulose
Destrid	Dextrinized Polysaccharide Powder
HME	Selective, nonionic surfactant - Chemco product
Imperex	Starch
Lime	Calcium Hydroxide
Micatex	Mica 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 survey are not required. See Shallow Hazards letter.

X. Gaseous Emission Data

Drill Barge "Mr. Charlie" will be used. Estimated rig days for drilling these wells will be 30 days.

A. Rig: Emission calculated for 30 days - stated in (lbs/day) Ton/30 days. See attachment for emission summary by rig and basis for calculations of Summary.

Drill Barge "Mr. Charlie"
(lbs./day) Tons/30 days

1. CO (369.48) 5.54

X. Gaseous Emission Data (Cont'd.)

A. Rig (Cont'd).

2. Hydrocarbon (79.40) 1.19
3. NO_x (2347.18) 35.20
4. SO_2 (190.90) 2.86
5. Particules (25.53) .38

B. Helicopters: Estimate 5 Round Trips in 30 days, two and one half hours per Round Trip = 12.5 hours operating time. Stated in (lbs./day) Tons per 30 days, averaged to 30 days. See attached for emissions per hour of use.

1. CO (.19) .00
2. Hydrocarbon (.04) .00
3. NO_x (.86) .01
4. SO_2 (5.52) .08
5. Particules (.07) .00

C. Boats (crew): Twenty One (21) trips in 30 days at 5 hours per round trip = 105 hours. (Supply) Thirteen (13) trips in 30 days at 11 hours round trip = 340 hours. 105 + 140 = 245 operating hours. Stated in (lbs/days) Tons per 30 days, averaged to 30 days. See attached for emission per hour of use.

1. CO (57.42) .86
2. Hydrocarbon (21.10) .32
3. NO_x (265.16) 3.98
4. SO_2 (17.73) .27
5. Particules (19.42) .29

D. Supply Base - 30 ton crane. Estimated use in 30 days = 103 hours. Stated in (lbs./day) Tons 30 days. Averaged 30 days. See attached for emission per hour.

1. CO (12.98) .19
2. Hydrocarbon (1.21) .02
3. NO_x (31.62) .47
4. SO_2 (1.62) .02
5. Particules (1.72) .03

XI. Attachments

A. Vicinity Map
B. Geological Program OCS 043 #8 with structure and salt maps
C. Shallow Drilling Hazards statement with seismic map
D. Drill Barge Data - "Mr. Charlie including schematic of diverter and statement of pollution control.
E. Emission Summary with basis of calculations for drill barge.
F. Emission hourly rates for boats, helicopter, and crane.
G. Abnormal Pressure Map

EUGENE ISLAND AREA

89

88

GULF OF MEXICO

94

95

110

ODECO OIL & GAS COMPANY

APRIL 22, 1982

GEOLOGICAL PROGRAM AND WELL RECOMMENDATION
OCS-043 WELL NO. 8 - EUGENE ISLAND BLOCK 88

LOCATION: Surface: 5150' FSL and 1500' FWL of Block 88.

PBHL: Same as surface.

TOTAL DEPTH: 10,500'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 8900'±.

Run #3-8900'± 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 8900'±.

Run #2-8900'± to TD.

4.) SWC-Sidewall Cores

Over resistive and porous zones as indicated by other services.

GEOLOGICAL PROGNOSIS:

0 - 3500	Pleistocene
3500'- 8700	Pliocene
8700'- TD	Miocene

WELL OBJECTIVES:

The well is designed to evaluate Upper Miocene sands on the northeast flank of the dome. These sands ($W\text{-}Y_O$) are productive in other fault blocks on the eastern flank of the dome.

Moderately high pressure (13 ppg equivalent) is expected at approximately 8900'ss. No salt is anticipated to the TD of the well.

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

Approved by: _____
Courtney Krauss
Manager
Development G

Approved by: H. A. Vallas
H. A. Vallas
Senior Vice President
Exploration

APPROVALS:

CNG PRODUCING COMPA.

BY: _____ DATE: _____

KLT/cgs

ATTACHMENT TO GEOLOGICAL PROGRAM & WELL RECOMMENDATION

WELL SAMPLES:

Collect 2 sacks per joint from 7,000' to total depth. The ODECO Enginee or Toolpusher at the well site will arrange for the most expeditious transportation to the appropriate shore base, from thence by "Hot Shot" to New Orleans and addressed to the attention of Crosbie-Macomber, 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.

[illegible] CHARLIE

BARGE DATA

HULL	Length [illegible], Beam (with pontoons) [illegible], Depth [illegible] with 5' fins
SLOT	Length [illegible], Width [illegible]; Center [illegible] from [illegible] of slot
[illegible]	[illegible] – 55' [illegible]
[illegible]	[illegible]
[illegible]PORT	Length [illegible]

PLAN OF DRILLING SLOT

	A	B	C	D	E	F	G	H	Normal	Hurricane Bottom	Maximum
[illegible] Charlie	25'0"	[illegible]	13'0"	[illegible]	5'0"	[illegible]	15'2"	[illegible]	40' [illegible]	[illegible]	[illegible]

ODECO

INTER-OFFICE CORRESPONDENCE

TO: R. S. [illegible] LOC: N. O. DATE:

CARBONS TO:

FROM: W. J. Wilkinson LOC: N. O.

SUBJECT: Pollution of Waste Disposal from C/B Mr. Charlie

The C/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 drains under floor and other machinery to retain all oil spills.

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

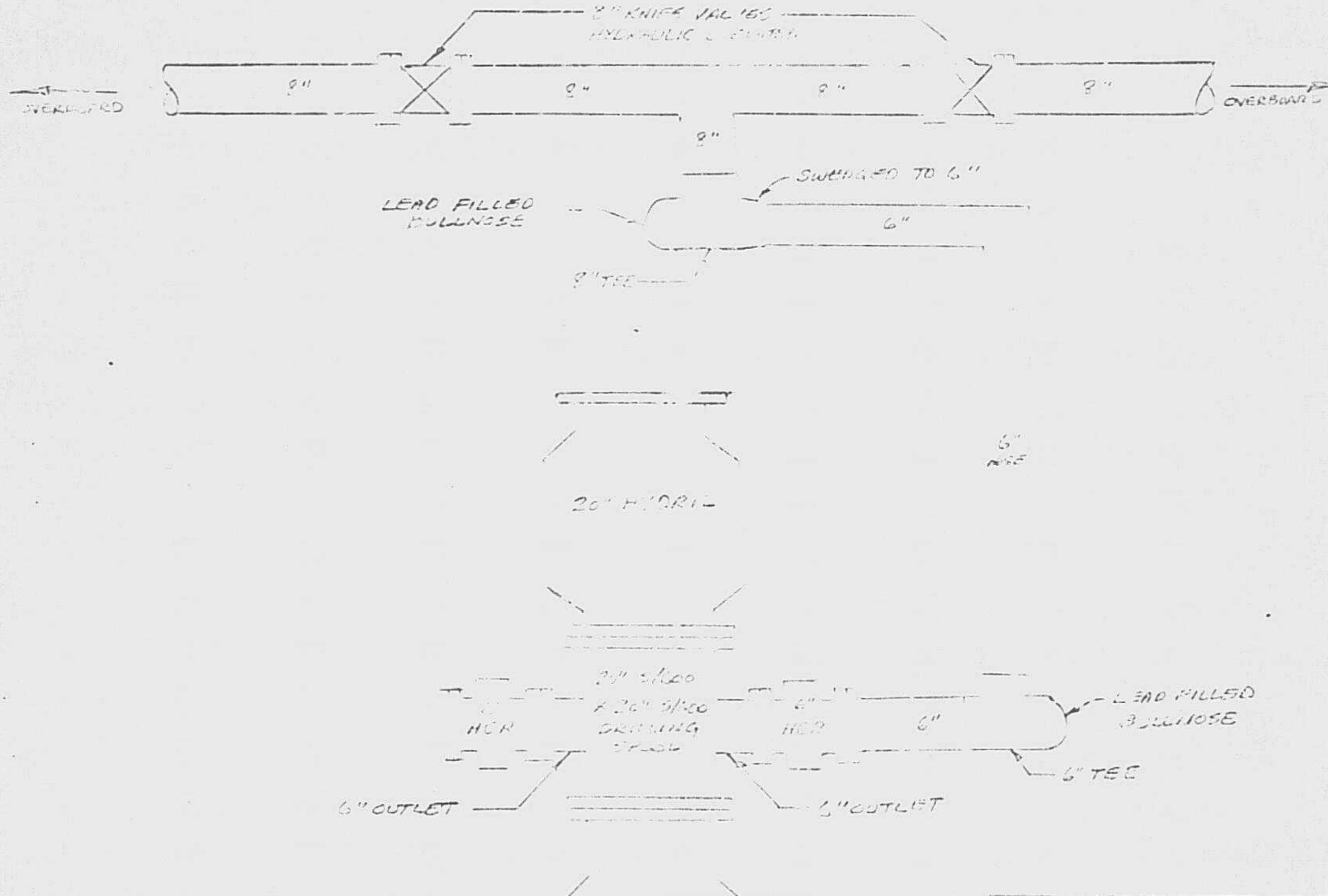
Containers have been provided to collect solid waste, such as boxes, cartons, cans, etc., which cannot be incinerated to a fine ash.

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/egt


OVERBOARD
8"
SWEDGED TO 6"
LEAD FILLED BULLNOSE
6"
LEAD FILLED BULLNOSE
6" TEE
HCR
6"
6" OUTLET

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 PROCEDURES

The Diverter System as shown in Attachment I is installed so that the HCR valve (s) will open automatically when the hydril is closed. The diverting valves will [illegible] down wind when necessary.

Prior to drilling the hydril shall be closed and water 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 hydril

B) Close hydril

C) Use diverting valves to direct well fluids down wind

D) Pump mud in hole as fast as possible. Pump water if mud is expended

"MR. CHARLIE"

EMISSIONS SUMMARY

SOURCE NO.	SOURCE	STACK HEIGHT (FT.)	STACK DIA. (FT.)	EMISSIONS (TONS/YEAR) CO	HYDROCARBONS	NO_x	PARTICULATE	SO_2
	F.M. #380 (GM 8-71)	40	1.33	32.9	7.04	209.0	2.28	17.0
1	F.M. #380 (GM 8-71)	40	1.33	32.0	7.04	209.0	2.28	17.0
	Murphy MP-20 (Aux)	40	.49	0.02	Negl.	1.03	Negl.	0.01
4	Murphy MP-2? (Aux)	40	.49	0.02	Negl.	0.83	Negl.	0.01
5	CAT D-353	40	.66	0.05	0.01	0.32	Negl.	0.02
6	Air comp (GM 3-71)	40	.33	0.37	0.08	1.97	0.02	0.16
7	Mix Pump (GM 3-71)	40	.33	0.38	0.08	1.69	0.03	0.25
8	Hobart welder (GM 3-71)	40	.33	0.04	0.01	0.29	Negl.	0.02
9	Schlumberger (4-71)	40	.33	0.05	0.01	0.32	Negl.	0.03
10	Halliburton (Det 353 WT-400)	40	.66	0.05	0.02	0.51	0.01	0.04
11	Halliburton (Det 8V-71)	"	.33	0.05	0.01	.84	0.02	0.14
12	Halliburton (Det 8V-71)	"	.33	0.04	0.01	.84	0.02	0.14
			Total	67.43	14.39	428.36	4.66	34.84
	X 2000 - lbs/yr			134,860	28,780	856,720	9320	69,680
	÷ 365 = lbs/day			369.9	79.0	2347.9	25.53	190.90

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

$$\frac{\text{TONS}}{\text{YR}} = .0006563 \times C \times P \times (\text{BHP})$$

where

- .0006563 = 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:

Pollutant	Grams/BHP-HR
NO_x	13.3
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 emission estimates. This data is probably conservative, because it was assumed that engines were running at all times at full horsepower:

Engine Application	Average Yearly % Use
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
Degasser/Desilter	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	2.3

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

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

June 28, 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 location of the Odeco Oil & Gas Company No. 8, OCS-043 well in Eugene Island Block 88 has been reviewed and there appears to be no evidence of shallow drilling hazards.

As indicated on the attached plat, the seismic lines reviewed was LD-110A.

Respectfully submitted,

M. L. James
Sr. Staff Geophysicist

MLJ/aah
Enclosure