

TO: OMS-2-2

FROM: OS-7-1



DATE _____

^{UNIT}
Supplemental Plan of ~~Exploration~~ Development/Production, Lease OCS-~~6~~ 0548

Control No. ~~8~~ U-0232.

LEASE OCS-0297

VR 26+35

Union Oil Co. of Calif.

VERMILION BLOCK 14 UNIT FIELD

14-08-0001-12339

NOTED - PATZ

VERMILION BLOCK 14 FIELD UNIT
PLAN OF DEVELOPMENT AND PRODUCTION
SUPPLEMENT - 1982
2/2/82



GENERAL

In accordance with amended oil and gas operating regulations 30 CFR 250.34 and with the Outer Continental Shelf Lands Act Amendment of 1978 Publication Law 95-372 and Federal Register Notice (44 FR 53695), Union Oil Company of California respectfully submits the following revisions to the submitted Supplement dated 8/17/81

SECTION (2) (a) (1) (i)

The new drilling activity in the Vermilion Block 14 Field Unit for 1982 should be as stated in the Supplemental Plan dated 8/17/81 with the exception of OCS 0548 Well No. 9. The well will now be named OCS 0297 Well No. 48 and have basically the same surface location in Vermilion Block 35, while the bottom-hole location will be in Vermilion Block 26, OCS 0297 lease.

SECTION (2) (a) (1) (ii)

There are no changes from the 8/17/81 approved Supplement.

SECTION (2) (a) (1) (iii)

Projected location of the OCS 0297 Well No. 48 is as follows:

OCS 0297 Well No. 48

Surface Location: 1,100' FWL and 1,000' FNL, Vermilion Block 35
Bottom-hole Location: 1,800' FWL and 200' FSL, Vermilion Block 26



There are no changes from the 8/17/81 approved Supplement for the remaining wells.

SECTION (2) (a) (1) (iv)

See Attachment 1 for the structure map of the Cib. op. 11 showing the new bottom-hole location of OCS 0297 Well No. 48.

SECTION (2) (a) (1) (v and vi)

There are no changes from the 1981 approved Development Plan.

SECTION (2) (a) (1) (vii)

See Attachment 2 for a schedule of the activities to commencement of production.

SECTION (2) (a) (1) (viii)

The location of the lease blocks relative to the shoreline is as shown on Attachment V of the original approved 1981 submittal. The mud components and additives will follow the detailed list provided in Attachment VII of the 1981 approved Plan. Air Quality Statements (Attachments 13 and 15 of 8/17/81 approved Supplemental Plan of Development) will not change. Shallow Drilling Hazard Reports (Attachments 17 and 19 of 8/17/81 approved Supplemental Plan of Development) will not change.

SECTION (2) (a) (3)

Consistency Certification is included as Attachment 11.

SECTION (2) (a) (5)

Under the Freedom of Information Act (5 U.S.C. 552) and the implementing regulations (43 CFR, Part 2), the following attachment will not be disclosed for public information:

Attachment 1
Attachment 5
Attachment 6

VERMILION BLOCK 14 FIELD NON-UNITIZED ZONES
PLAN OF DEVELOPMENT AND PRODUCTION
SUPPLEMENT - 1982

2/2/82

SECTION (2) (a) (1) (i)

This submittal serves to update the production and drilling schedule in Vermilion Block 14 non-unitized zones. The OCS 0297 Well No. 43 is completed in the Rob. (L)-12 and was turned on production 11/27/81. The OCS 0548 Well No. 6 is completed in the Rot. (E)-1 and will be turned on production 3/1/82. The OCS 0548 Well No. 7 is currently being drilled with projected TD in April 1982. The OCS 0548 Well No. 8 will be drilled from a different surface location than was presented in the 8/17/81 approved Supplemental Plan of Development.

Union Oil Company is proposing a new well to be drilled to the Rob. (L)-16. The OCS 0297 Well No. 49 is being submitted and is to be a replacement well for the producing OCS 0297 Well No. 29 in the Rob. (L)-16. 0297 No. 29 was drilled in 1978 and the down-hole completion of the well has limited the maximum obtainable production rate. Another limiting safety factor is that the No. 29 four-pile well protector and platform serves as a junction (converging point) for several Union Oil Company pipe lines which transport remote well production to a central process facility. Union Oil Company is limited to the number of completions in the Rob. (L)-16 by the Joint Plan of Development agreed to by Union, et al, and McMoRan Offshore, et al, and subsequently approved by USGS on November 30, 1980.

Original reserve distribution in Rob. (L)-16:

<u>Union Group</u>		<u>McMoRan Group</u>	
161.2 = 66.6%	OCS 0297, 1357, 0548	80.8 BCF - 33.4%	OCS 3390, 4102

The reservoir has been producing volumetrically with cumulative production figures as follows:

Union Oil Company:	54.7 BCF - 40.7%
McMoRan Offshore:	79.8 BCF - 59.3%

The replacement well will be drilled, completed and prepared for production. Upon initiating production from the No. 49 replacement well, No. 29 will be shut in.

Union Oil Company, based upon the production history and reserve data presented previously, feels that the replacement well must be drilled in an attempt to recover its fair share of the reserves.

SECTION (2) (a) (1) (ii)

The proposed well will be drilled from a remote location. Upon completion of the drilling, a 4-pile well protector platform will be installed over the well. Attachment 3 shows the general design features of this platform. The well will be piped to the No. 29 junction platform by a short flow line where it will be tied to one of the field pipe lines which will transport the production to a central process facility.

The well will probably be drilled with either the submersible barge rig Movable 3 or submersible barge rig Bluewater 2. These rigs are presently being used in the Vermilion Block 14 Field and the progress of the current drilling program will determine which rig will be used.

Safety and pollution precaution and control features consistent with applicable Federal regulations and in particular OCS Orders No. 2, No. 5, No. 7 and No. 8 will be complied with. All other safety and pollution prevention and control features including oil spill containment and clean-up plans are as stated in the 1981 approved Plan of Development.

SECTION (2) (a) (1) (iii)

Attachment 4 is a base map showing the surface location of the proposed well and the revised surface location of 0548 Well No. 8. The existing wells and production system layout are also shown.

Projected location of the proposed well is as follows:

OCS 0297 Well No. 49

Surface Location:	3,250' FWL and 4,200' FSL, Vermilion Block 26
Bottom-Hole Location:	3,000' FWL and 3,650' FSL, Vermilion Block 26
Proposed TVD:	14,250'

OCS 0548 Well No. 8

Revised Surface Location:	5,150' FWL and 5,750' FNL, Vermilion Block 35
Bottom-Hole Location:	Same as surface.
Proposed TVD:	20,000'

SECTION (2) (a) (1) (iv)

Attachment 5 is a structure map of the Rob. (L)-16 showing the proposed 0297 Well No. 49.

SECTION (2) (a) (1) (iv) (Cont.)

Attachment 6 is a structure of the middle Rot. (E) Sands with the proposed
0548 Well No. 8.

SECTION (2) (a) (1) (v and

There are no changes from the 1981 approved Development Plan.

SECTION (2) (a) (1) (vii)

See Attachment 7 for a schedule of the activities to commencement of production.

SECTION (2) (a) (1) (viii)

The location of the lease blocks relative to the shoreline is as shown on Attachment VI of the original approved 1981 submittal. The mud components and additives will follow the detailed list provided as Attachment VII of the 1981 approved Plan. Attachment 8 is an Air Quality Statement relative to the 0297 No. 49 well. Attachment 9 provides the Shallow Hazards Report for the surface location of 0297 No. 49. Attachment No. 10 provides the Shallow Hazards Report for the revised surface location of OCS 0548 No. 8.

SECTION (2) (a) (3)

Consistency Certification is included as Attachment 11.

SECTION (2) (a) (5)

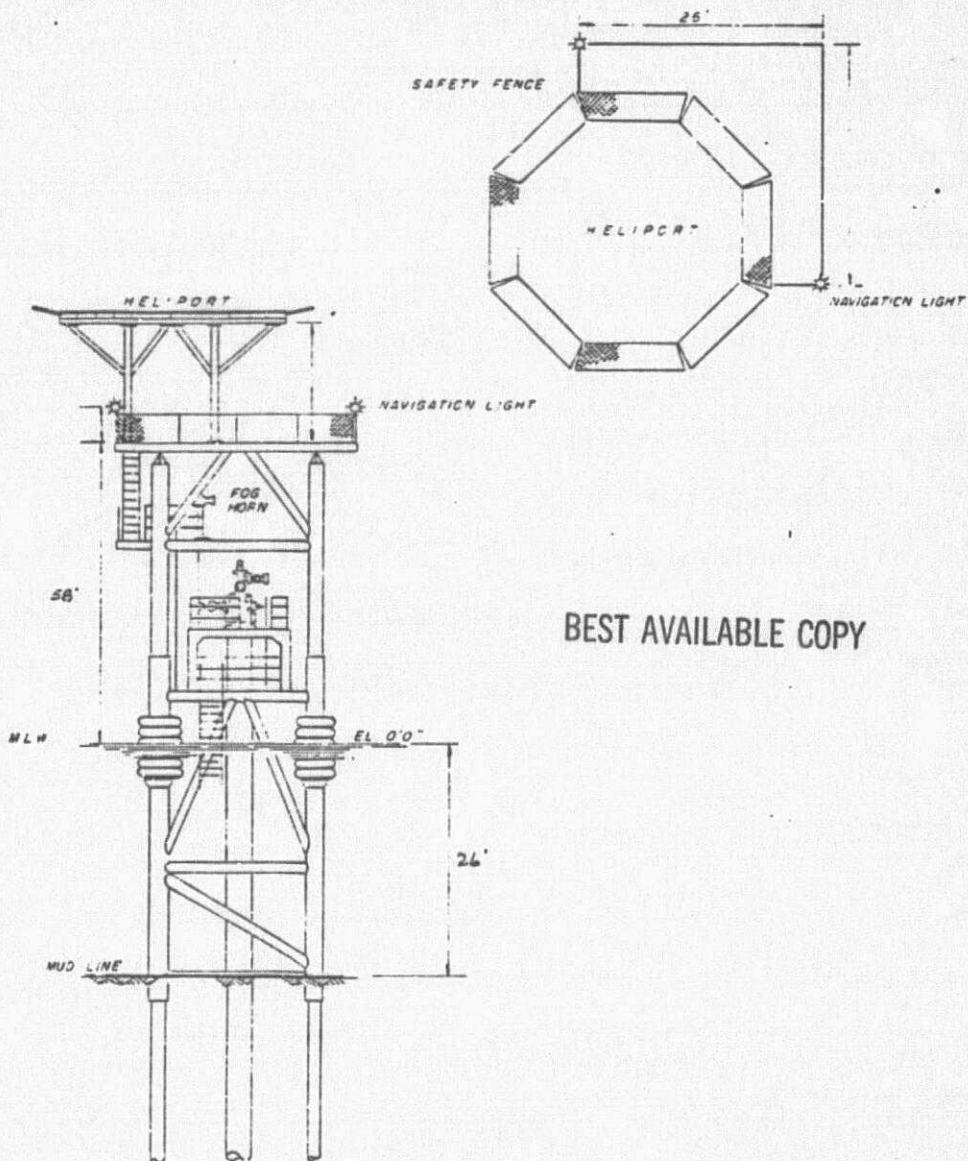
Under the Freedom of Information Act (5 U.S.C. 552) and the implementing regulations (43 CFR Part 2), the following attachments will not be disclosed.

Attachment 1
Attachment 2
Attachment 6

SCHEDULE OF ACTIVITIES
VERMILION BLOCK 14 FIELD UNIT

<u>WELL</u>	<u>DRILLING</u>		<u>COMPLETION</u>	
	<u>START</u>	<u>FINISH</u>	<u>START</u>	<u>FINISH</u>
0297 #46	2/18/82	3/20/82	3/20/82	3/30/82
0297 #48	3/15/82	4/17/82	4/17/82	4/27/82
0297 #45	Since drilling plans for 1982 are incomplete at this time, a schedule of activities for the well will be covered by a future supplemental plan of production.			
0297 #47	Since drilling plans for 1982 are incomplete at this time, a schedule of activities for the well will be covered by a future supplemental plan of development.			

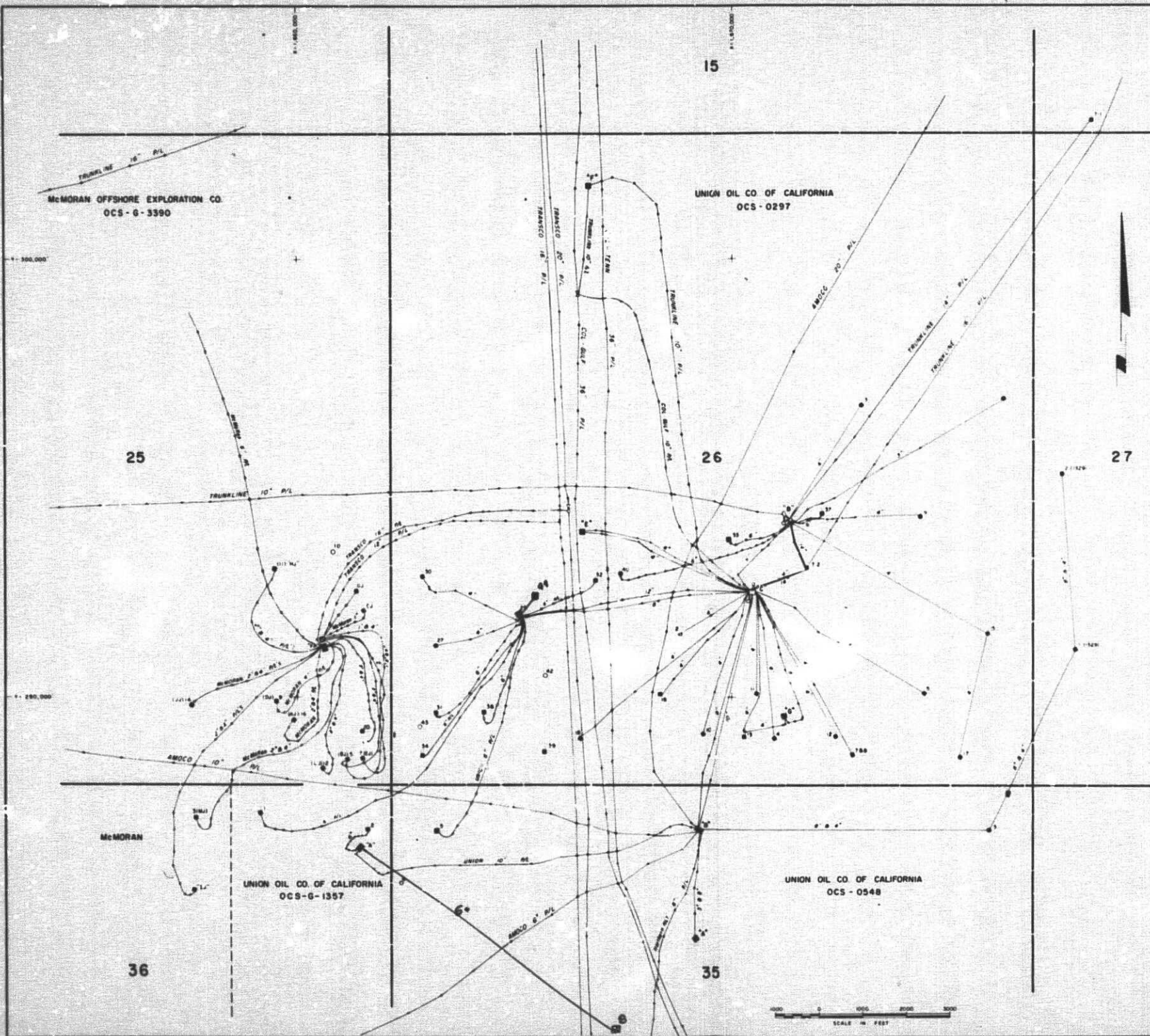
The above wells should commence production approximately one month after completion. This allows sufficient time to lay flow lines, install risers, and make tie-ins to the existing flow lines.



BEST AVAILABLE COPY

REV	DATE

UNION OIL CO OF CALIFORNIA
WELL PROTECTOR PLATFORM
 OCS LEASE _____ WELL NO _____
 BLOCK _____ IN VERMILION BLOCK _____ FIELD _____
LOUISIANA OFFSHORE



BEST AVAILABLE COPY

IMPORTANT PLANS NOTE

1. This map is furnished to UNION OIL CO. OF CALIFORNIA for its use only and UNION OIL CO. OF CALIFORNIA warrants that the map will not be transferred or provided to any other person or entity.
2. This map has been prepared on the basis of information derived from a variety of sources, including but not limited to, as-built drawings and surveys prepared by other persons and entities, and over the services provided in the preparation of this map, specific interpretation, judgment, and opinion based upon inference from sketch data and no warranty is made by the Union Oil Co. of California or its subsidiaries, agents, or representatives for the accuracy or completeness of the information supplied by other persons or entities. The Union Oil Co. of California and its subsidiaries, agents, or representatives shall not be responsible for the consequences of any inaccuracies or omissions in the map.
3. This map does not attempt to show the location or existence of any communication cables.

ATTACHMENT IV

REVISED		UNION OIL CO. OF CALIFORNIA	
DATE	BY	UNION OIL & GAS DIVISION	LAFAYETTE, LOUISIANA
2/1/80	M.B.S.	BASE MAP BLOCK 2S - VERMILION AREA	
5/6/80	M.B.S.		
7/6/80	M.B.S.		
9/5/80	M.B.S.		
12/2/80	M.B.S.		
1/5/81	M.B.S.		
5/28/81	M.B.S.		
8/1/81	M.B.S.		
8/1/81	M.B.S.		
8/1/81	M.B.S.		
DRAWN FOR		DATE	
J.E.C.		9-18-79	
DRAWN BY		FILE NUMBER	
J.E.C.			



SCHEDULE OF ACTIVITIES

NON-UNITIZED ZONES

VERMILION BLOCK 14 FIELD

WELL	DRILLING		COMPLETION	
	START	FINISH	START	FINISH
0297 #49	5/1/82	8/1/82	8/1/82	3/1/82
0548 #8	9/1/82	3/1/83	3/1/83	4/15/83

The 0297 #49 should commence production approximately 1.5 months following the well completion. This would allow sufficient time to lay a short flow line and make the tie-ins to existing flow lines.

The 0548 #8 should commence production approximately two months following the well completion. This would allow sufficient time to lay the flow line, install risers, and make tie-ins to existing facilities.

AIR QUALITY STATEMENT

The Plan of Operations for the drilling and production of OCS 0297 Well No. 49 at Vermilion Block 26 is as follows:

It is expected to take sixty (60) days to drill and complete the well. The rig being used to drill this well will be Mobile III or a comparable rig. The normal fuel consumption per day for this rig is approximately 2,300 gallons of diesel. The onshore support base for this activity will be the Union Oil Shore Base located at Intracoastal City, Louisiana. All transportation, boats and helicopters will be handled from this Base.

This location will consist of one single completion well which will be provided with minimum surface equipment. A 4-pile well protector platform will be installed approximately 400' to the northeast of OCS 0297 Well No. 29 platform. A short flow line will be installed to the No. 29 platform where it will be connected to an existing flow line. The flow line from the 0297 No. 29 platform to the VE 26 "C" central production facilities (\pm 5,300') will be used to transport the gas stream. The gas will be separated, dehydrated, and metered on the VE 26 "C" platform. A 5-ton crane will be installed on the No. 49 platform for utilization in routine wireline work.

The installation of the platform will require a 500-ton derrick barge. The normal fuel consumption per day for this barge is approximately 5,700 gallons of diesel. The transportation for this phase of the operation will also be handled out of the Union Oil Company Shore Base located in Intracoastal City, Louisiana. It is expected to take two (2) days to complete the setting of the platform.

Air emission calculations are based on the aforementioned drilling and installation time frame. Any additional service work required during this well's productive life will be minimal and will result in air emissions which will be well below the exemption level.

The projected emissions are based on data from "Compilation of Air Pollutant Emission Factors," third edition AP-42, EPA, 1977, Table 3.3.3-1 and Table 3.2.1-3.

PROJECTED AIR EMISSION FOR VERMILION BLOCK 26 OF S.D. NO. 3

EMISSION SOURCE	RUNNING TIME/DAY	TAKEOFF & LANDINGS/DAY	FUEL CONSUMPTION GALLONS/DAY	EMISSION FACTORS PER 1,000 GALS.					MISSION FACTORS AIRCRAFT TAKEOFF & LANDINGS					PROJECTED EMISSION, 62-DAY PROJECTION IN OCS 0297 NO. 49					
				SO ₂	NOx	CO	TSP	VOC	SO ₂	NOx	CO	TSP	VOC	SO ₂	NOx	CO	TSP	VOC	
CALCULATION FOR 60-DAY DRILLING PHASE:																			
Drilling Rig	24 Hrs.			31.2	469	102	33.5	37.5							4,372	65,684	14,294	4,794	5,255
Cargo Boat (In Berth)	2 Hrs.		4	31.2	469	102	33.5	37.5							7	114	25	8	9
Crew Boat (In Berth)	2 Hrs.		4	31.2	469	102	33.5	37.5							7	114	25	8	9
Helicopter Takeoff & Landings		4							.18	.57	.57	.57	.2		44	138	138	61	127
CALCULATION FOR 2-DAYS PLATFORM INSTALLATION PHASE:																			
Derrick Barge	24 Hrs.		5,700	31.2	469	102	33.5	37.5							356	5,347	1,163	382	428
Cargo Boat (In Berth)	1 Hrs.		24	31.2	469	102	33.5	37.5							2	23	5	2	2
Crew Boat (In Berth)	12 Hrs.		24	31.2	469	102	33.5	37.5							2	23	5	2	2
Projected emissions are based on data from "Compilation of Air Pollutant Emission Factors," 3rd Edition AP-42, EPA, 1971, Table 3.3.3-1 and Table 3.2.1-3.														SO ₂	NOx	CO	TSP	VOC	
														4,790	71,443	15,655	5,157	5,832	
(TOTALS IN POUNDS)																			

B/D1

BEST AVAILABLE COPY

Union Oil Company of California
P.O. Box 51355, OCS - Vermilion, Louisiana 70365
Telephone (318) 232-5724

JANUARY 27, 1982



UNION OIL COMPANY OF CALIFORNIA
OCS-G-0297 WELL NO. 49
VERMILION BLOCK 14 FIELD (BLOCK 26)
OFFSHORE, LOUISIANA

DEVELOPMENT DRILLING PLANA. PALEO MARKERS & OBJECTIVES

BIG. (2)-1
CIB. OP.-1
CIB. OP.-11
ROB. (L)-1
ROB. (L)-16

ESTIMATED DEPTHS

-8,200' TVD
-10,150' TVD
-11,650' TVD
-12,300' TVD
-14,250' TVD

B. PROPOSED SUITE OF LOGS

DIL/FDC/CNL/GP

C. INTERVALS TO BE CORDED/TESTED

SIDEWALL CORES AND TESTING AS INDICATED BY LOG ANALYSIS.

D. SHALLOW HAZARDS REPORT

LOCATION: S.L.: 3250' FWL & 4200' FSL

B.H.: 3000' FWL & 3650' FSL

THE PROPOSED SURFACE DRILLING LOCATION IS 150' NORTHEAST OF A 1200Z NORTHWEST-SOUTHEAST TRENDING 1974 VINTAGE GSI SPECULATIVE LINE, 150' SOUTHEAST OF A NORTHWEST-SOUTHEAST TRENDING 4800Z 1980 VINTAGE UNION-AMOCO PROPRIETARY LINE, 250' WEST OF A NORTH-SOUTH TRENDING 1200Z 1973 VINTAGE PROPRIETARY UNION LINE AND 500' NORTHEAST OF UNION OIL OCS-0297 NO. 29 WELL. NEITHER THE SEISMIC NOR THE WELL INDICATE ANY POSSIBLE SHALLOW DRILLING HAZARDS.

FOR THIS REASON NO SHALLOW HAZARDS ARE EXPLORED WITH UNION OIL COMPANY OF CALIFORNIA OCS-0297 WELL NO. 49.

E. ATTACHED MAP:

ROB. (L)-16

BY: Donna J. Schramm
DONNA J. SCHRAMM, GEOLOGIST

BY: Michael R. Cornyn
MICHAEL R. CORNIN
AREA GEOPHYSICIST

DJS:MRC/lcg
ATTACH. (1)

Union Oil Company of California
P.O. Box 51388, O.C.S., Lafayette, Louisiana 70505
Telephone (318) 232-9724

REVISED

JANUARY 18, 1982



UNION OIL COMPANY OF CALIFORNIA
OCS-G-0548 WELL NO. 8
VERMILION BLOCK 35
CFFSTORE, LOUISIANA

SHALLOW HAZARD REPORT

LOCATION: 5,150' FWL AND 5,750' FNL OF VERMILION BLOCK 35.

THE PROPOSED DRILLING LOCATION IS APPROXIMATELY 100' NORTHEAST OF A NORTHWEST-SOUTHEAST TRENDING 4800% 1981 VINTAGE UNION PROPRIETARY LINE, 150' SOUTHWEST OF A NORTHWEST-SOUTHEAST TRENDING 1200% 1974 VINTAGE C.S.I. SPECULATIVE LINE AND 800' NORTH OF A EAST-WEST TRENDING 2400% 1976 VINTAGE AMOCO PROPRIETARY LINE. NONE OF THE ABOVE SEISMIC LINES SHOW ANY SHALLOW DRILLING HAZARDS. THE PROPOSED DRILLING LOCATION IS ALSO 850' NORTH OF WELL OCS-G-0548 WELL NO. 2. THIS WELL DID NOT ENCOUNTER ANY SHALLOW DRILLING HAZARDS.

BECAUSE OF THE ABOVE REASONS, WE DO NOT ANTICIPATE ANY SHALLOW DRILLING HAZARDS.

UNION OIL COMPANY OF CALIFORNIA

BY:

Michael R. Cornyn
MICHAEL R. CORNYN
AREA GEOPHYSICIST
S. W. LA. EXPLORATION DIST.

MRC/lcg

ATTACHMENT 10

COASTAL ZONE MANAGEMENT

CONSISTENCY CERTIFICATION

SUPPLEMENTAL PLAN OF DEVELOPMENT - 1982

TYPE OF PLAN

VERMILION BLOCKS 26 AND 35, VERMILION BLOCK 14 FIELD

AREA AND BLOCK

OCS 0297 AND OCS 0548

LEASE NUMBER

The proposed activities described in detail in the Plan comply with Louisiana's approved Coastal Management Program(s) and will be conducted in a manner consistent with such program(s).

Union Oil Company of California
LESSEE OR OPERATOR

J.E. Fisher

CERTIFYING OFFICIAL

February 2, 1982

DATE