

ENVIRONMENTAL ANALYSIS

MOBIL OIL CORPORATION AS OPERATOR
PLAN OF DEVELOPMENT FOR
OCS-P 0202 AND OCS-P 0203
HUENEME OFFSHORE

SANTA BARBARA CHANNEL OFF CALIFORNIA

January 4, 1977

ENVIRONMENTAL ANALYSIS

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HUENEME OFFSHORE

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1. Memorandum, District Geologist, Los Angeles
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I. Proposed Action and Background

In June 1976 Mobil Oil Corporation submitted a Plan of Development for the Hueneme Offshore Field.

The Hueneme Field is located in the Santa Barbara Channel approximately 4 miles southwest of the City of Port Hueneme and 11 miles south of the City of Ventura. The operator will be Mobil Oil Corporation which is a 50% partner with Union Oil in the two tracts acquired in a Federal lease sale in April 1968. The two leases total 8,564 acres of which 300 acres are now estimated to be productive (see figure 1).

The Santa Barbara Channel EIS 76-13 specifically considers the proposed action in:

Hueneme Offshore Potential Field Area within leases OCS-P 0202 and P 0203 Vol I, p. I-14, I-15, I-161, I-164

Hueneme Offshore Potential Field - Tentative Platform Proposal Vol II, p. III-35 and 36, III-47 to III-52

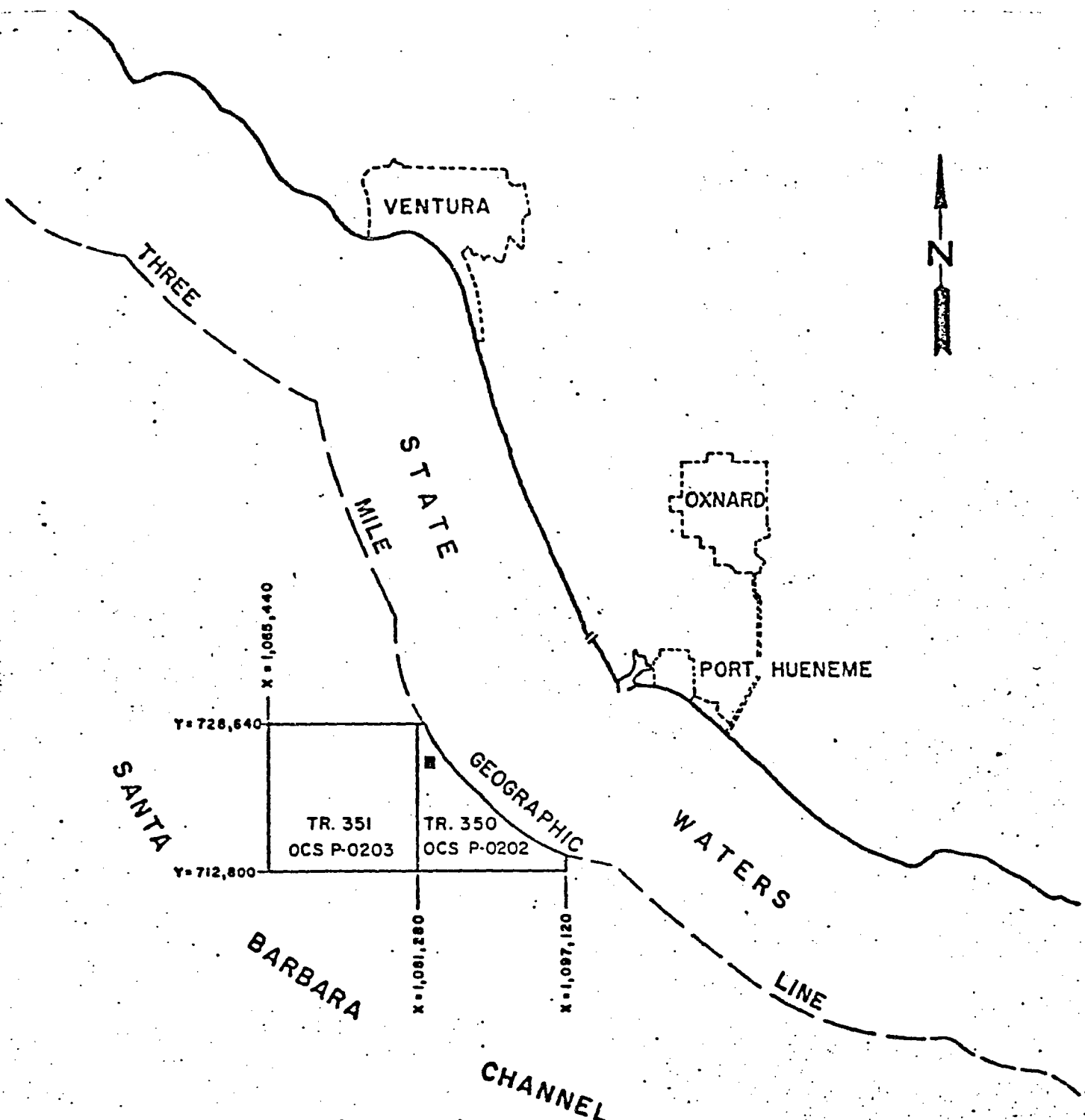
- Further Evaluation
- Tentative Platform Proposal
- Potential Impacts

Response to the State Lands Commission Vol III, p. IX-155

The plan calls for the construction of a template type, API eight leg, 7-15 well, self-contained drilling and production platform set in 95 feet of water on lease OCS-P 0202. Detailed plans for the platform are not included with the plan of development and the proposed platform is described in general with the proposed platform facilities and the design criteria. When the proposed plan is approved in concept, detailed design will commence. Approval by the Supervisor will be required for each component (e.g. platform).

Preliminary plans call for the connection of two suspended wells on lease OCS-P 0202 to the platform and the drilling of seven additional wells to develop the field. However, the number of wells to be drilled is flexible and will depend on the results of the initial drilling program. E.g., a natural partial water drive recovery is anticipated for the producing wells, but if this drive does not develop, or is insufficient, then a water flood program is anticipated.

Proposed pipeline routes and onshore facilities are presented as alternate options which will depend on inter-company agreements and the problems concerned with state and local permits. Mobil presents four alternate pipeline routes:



■ = Proposed Platform Location

Figure 1

INDEX MAP

HUENEME OFFSHORE PLAN OF DEVELOPMENT

1. An 8-inch line to connect with the platform SOCAL will propose for Santa Clara Unit development.
2. An 8-inch line directly from the proposed platform to the existing Mobil-operated Rincon facility.
3. An 8-inch line to connect to the 12-inch Dos Cuadras line serving Union's platforms A and B, and Sun's platform Hillhouse.
4. An 8-inch line directly to shore at a point between Oxnard and Ventura to connect to a new onshore treating and handling facility. Three possible sites are given for such a facility.

II. Location and Natural Setting

A comprehensive, 3-volume Final Environmental Statement has been prepared by the USGS on Oil and Gas Development in the Santa Barbara Channel Outer Continental Shelf off California (FES 76-13, March 4, 1976). Section II (Vol. I, p. II-1 to II-226 and Vol. II, p. II-227 - II-655) presents a Description of the Environment including:

● Geography and Geomorphology	Page II-1
● Geology	II-9
● Meteorology	II-155
● Oceanography	II-182
● Biology	II-227
● Resources	II-346
● Air and Water Quality	II-575

Therefore, this Environmental Analysis considers aspects of the location and natural setting with specific reference to Hueneme Offshore Field Plan of Development.

a. Geology and Seismology

Mobil Oil Corporation has filed with the USGS a report, "Hueneme Offshore Seismicity and Soils Report". This report and the Plan of Development have been reviewed by the office of the District Geologist. The summary analysis follows.

"The Hueneme Offshore Field Plan of Development has been reviewed by this office and we are in accord with the concept.

"Because exploratory wells have been drilled safely in the immediate area, we are more concerned with the soil properties of the ocean floor and their bearing on platform safety.

Rating Scale + Beneficial impact 0 No impact or not likely to occur - Most impact or most likely to occur 3 Possibility of occurrence Rating of impact	Terrestrial				Marine							Socioeconomic										
	Birds	Mammals	Endangered Species	Vegetation	Birds	Mammals	Benthic Organisms	Pelagic Organisms	Endangered Species	Vegetation	Bottom Sediments	Fishing		Recreation and Tourism	Transportation		Air Quality	Water Quality	Economic			
												Commercial	Sport		Onshore	Offshore			National	State	Regional	
Impact of Drilling & Production Platforms																						
Construction Phase	0	0	0	0	1	1	2	2	0	1	1	3	+	1	1	1	0	1	0	+	+	
Operation Phase	0	0	0	0	0	0	1	1	0	0	1	2	+	1	0	1	0	2	+	+	+	
Post-Production Phase	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	
Impact of Pipelines																						
Construction Phase	2	3	0	2	1	0	3	2	0	3	1	2	2	2	1	1	1	1	0	0		
Operation Phase	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	+	+	+	
Post-Production Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Impact of Marine Loading Terminal																						
Construction Phase	0	0	0	0	0	0	2	1	0	1	1	1	1	1	1	1	1	2	0	+	+	
Operation Phase	0	0	0	0	+	+	1	1	0	1	1	1	0	1	0	0	1	2	0	+	+	
Post-Production Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Impact of Onshore Treating & Storage Facilities																						
Construction Phase	2	3	0	3	0	0	0	0	0	0	0	0	0	2	1	0	2	2	+	+	+	
Operation Phase	1	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	2	+	+	+	
Post-Production Phase	0	2	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Impact of Offshore Treating & Storage Terminal																						
Construction Phase	0	0	0	0	0	0	2	2	0	2	1	1	1	1	1	1	1	1	0	+		
Operation Phase	0	0	0	0	+	+	1	1	0	0	1	1	1	1	0	1	1	1	+	+		
Post-Production Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Impact of Submerged Production System																						
Construction Phase	0	0	0	0	0	0	2	2	0	0	1	2	2	1	0	1	1	0	0	0	+	
Operation Phase	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	
Post-Production Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Impact of Oil Spills																						
Major Spills	1/3	1/3	1/1	1/4	1/5	1/4	1/4	1/4	1/3	1/3	1	1/4	1/4	1/3	2	2	2	1/3	1/3	1/2	1/4	
Minor Spills	3/1	3/1	3/1	3/2	3/1	3/1	3/1	3/1	3/2	3/1	0	3/1	3/1	3	0	1	1	3/1	1	2	2	
Very Minor Spills	0	0	0	2	2	2	2	1	1	2	0	2	1	2	0	1	1	1	0	0	0	

TABLE III-16 IMPACT SUMMARY, PETROLEUM DEVELOPMENT, SANTA BARBARA CHANNEL OCS, OFF CALIFORNIA

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comments were related to (1) the general nature of the development plan as submitted, and (2) clarifications of the Oil Spill Contingency Plan.

Disposition of BLM comments follow. (1) As noted in the introduction of this EA, the plan of development and the proposed platform are in fact described in general; when the proposed plan is approved in concept, detailed platform design will commence. (2) Mobil Oil Corporation since has submitted additional information and details on the Oil Spill Contingency Plan.

VII. Determination

I recommend that the proposal (~~does~~) (does not) constitute a "major Federal action" significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(c).

F. J. Schambeck
F. J. Schambeck
Oil and Gas Supervisor
Pacific Area

1/4/77
(Date)

I determine that the proposal (does) (does not) constitute a "major Federal action" significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(c).

Conservation Manager
Western Region

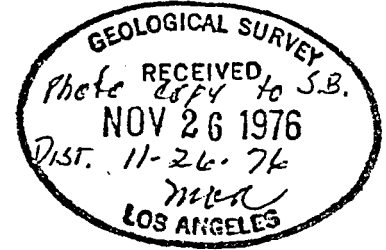
(Date)



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

7760 Federal Building
300 North Los Angeles Street
Los Angeles, California 90012

November 26, 1976



File - Hueneme
Offshore Field -
Gen Corresp

MEMORANDUM

To: Oil and Gas Supervisor, Pacific Area
From: District Geologist, Los Angeles
Subject: Hueneme Offshore Field Plan of Development.

The Hueneme Offshore Field Plan of Development has been reviewed by this office and we are in accord with the concept.

Because exploratory wells have been drilled safely in the immediate area, we are more concerned with the soil properties of the ocean floor and their bearing on platform safety.

Mobil reports that the foundation soils have a high shear strength and demonstrate resistance to liquefaction and therefore the platform site is stable. We would like to investigate this aspect further but this need not interfere with approval of the general plan. With this proviso, we recommend that the general plan be approved.

Keith A. Yenne
Keith A. Yenne

KAY/yms

NOTED - CYPHER

NOTED - ADAMS



United States Department of the Interior

FISH AND WILDLIFE SERVICE

1500 N.E. IRVING STREET
P.O. BOX 3737
PORTLAND, OREGON 97208

~~LA VECCHIA~~
~~HUNT~~
~~WEISS~~
File-Lease OCS-P 0202

Reference: OBS

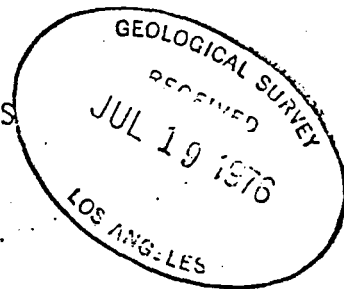
July 16, 1976

Memorandum

To: Oil and Gas Supervisor, Pacific Area, USGS
Los Angeles, California 90012

From: Regional Director
Fish and Wildlife Service
Portland, Oregon 97208

Subject: Plan of Development, Oil Spill and H₂S
Contingency Plans, Hueneme Offshore
Field Leases OCS-P 0202 and 0203
Mobil Oil Corporation



NOTED - SCHWABERK NOTED - ADAMS

This is in response to your memorandum of July 1, 1976 concerning OCS-P 0202 and 0203. We have reviewed the subject documents and offer the following comments.

1. A fishery for bonito and jack mackerel exists in the lease area. The subject leases (OCS-P 0202 and 0203) are two of six leases within the California Department of Fish and Game statistical block number 683. The high and low landings for block 683 were 5.8 million pounds in 1974 and 347,000 pounds in 1970.
2. An oil spill arriving in the intertidal zone of Anacapa Island could adversely impact the entire brown pelican colony at that location. Similar concern exists due to the proximity of Mugu Lagoon.
3. In view of the above, and based upon the probability that a minor oil spill could be contained, we do not object to platform construction and drilling at the described site.

Our response has been prepared in accordance with the provisions of Section 3(f)(4) of Secretarial Order No. 2974 dated April 30, 1975.

Attached are the Plan of Development, Oil Spill Contingency Plan, and the H₂S Contingency Plan.

R. Kahler Martinson
R. Kahler Martinson
Regional Director



Save Energy and You Serve America!

UNITED STATES GOVERNMENT

Memorandum

OCS-P-0202

6522-17/OCS P-0202, 0203

*Noted
off*

GEOLOGICAL SURVEY
RECEIVED
JUL 12 1976
LOS ANGELES

DATE: JUL 12 1976

*File-copy for each
NOTED - SCHAMBECK*

TO : Oil and Gas Supervisor, Pacific Area

FROM : Manager, Pacific OCS Office

SUBJECT: Comments on Plan of Development, Leases OCS-P 0202 and 0203, Mobil Oil Corporation

Your material which was forwarded to us regarding Mobil Oil Company's Plan of Development for OCS-P 0202 and 0203 has been reviewed. We have reviewed it only with respect to the proposed platform on lease OCS-P 0202 and expect that when pipeline options and data are firmer, that aspect of the development will be subject to our review. It should be noted that coordination with the State of California on pipeline corridors may be initiated in the near future and could effect pipeline locations in this area.

We offer the following comments on the material submitted:

1. Mobil Oil Company has requested and received a suspension of production for a period of one year starting from January 1, 1976. Mobil is properly designated as the agent. There are no BLM-permitted pipelines in these leases.
2. The development plan as submitted is general in nature and consequently does not lend itself to meaningful analysis of the plan's environmental aspects. Your office has already informed us that no additional geologic and geophysical data is available at this time.
3. Evaluation of the risk from geologic hazards to the environment will require the geophysical and structural data required by 30CFR Par 250.34(a)3 and the engineering and geologic data similarly required by 30CFR Par 250.41(a). We recommend that these data be obtained and evaluated prior to approval of the application.
4. We have not received sufficient data to adequately evaluate the cultural resources potential of the area. On the basis of other available data, we believe the tracts should be considered as having a high potential for cultural resource occurrence. Even though a survey is not required by stipulation, in view of the apparent obligations placed on Federal agencies by E.O. 11593, NEPA and other applicable legislation, in this regard, we recommend that you consider requiring a site survey.
5. There are several serious deficiencies and needed clarifications in the Oil Spill Contingency Plan.



The plan refers to the equipment and capabilities of Clean Seas Incorporated but there is no itemized listing of oil spill equipment that will be maintained at the drill site, nor is there any plan showing how it will be employed. This plan should contain the following elements:

- a. Definition of type and quantity of oil spill recovery and containment equipment to be available at the site (to include boom and skimmer at the minimum).
 - b. Definition of training procedures and frequency of drills relating to the oil spill equipment at the site (should include the deployment, at least once, of any equipment that will be maintained at the site).
 - c. Definition of maintenance provisions for the on-site spill equipment.
 - d. Definition of maximum allowable response time.
 - e. Definition of weather or sea conditions that would preclude recovery attempts or represent a hazard to recovery personnel and expectable frequency of occurrence.
 - f. Statement of the techniques that would be used for control and recovery of spilled oil.
 - g. Provisions for collection, transport and disposal of the oil.
6. The platform area is not proximate to any known unique biological communities and a minor spill from this site would not ordinarily be expected to cause unusual biological damage. The possibility exists that a spill, under certain wind conditions occurring particularly in the summer, may reach the unique and biologically significant Mugu Lagoon.
7. We offer no comments on the H₂S Contingency Plan.

We are returning the three documents on loan to us, including the Plan of Development, Hydrogen Sulfide and Oil Spill Contingency Plans, Hueneme Offshore Field.

Enclosures

ACTING



July 1, 1976

Memorandum

To: Regional Director, Fish & Wildlife Service, Portland, Oregon
From: Oil and Gas Supervisor, Pacific Area
Subject: Plan of Development, Oil Spill and H₂S Contingency Plans, Hueneme Offshore Field, Leases OCS-P 0202 and 0203, Mobil Oil Corporation

Pursuant to Section 3(f)(4) of Secretarial Order No. 2974 of April 30, 1975, we are forwarding copies of subject plans for your review and comments.

Subject Plan of Development proposes the installation of a 7-15 well, self-contained drilling and production platform in lease OCS-P 0202.

The Plan of Development is considered proprietary data and has been stamped "FOR U. S. GOVERNMENT USE ONLY". Safeguarding these data must be in accordance with Departmental Regulations.

Please acknowledge receipt of this material on the copy of this memorandum and return it to this office.

Upon completion of your review of the material enclosed, it must be returned to this office.

(Orig. Sgd.) F. J. SCHAMBECK

F. J. Schambeck

Attachments

Receipt acknowledged _____
(Date)

By _____
(Name) (Title) (Office)

cc: Coop. w/BLM Lease OCS-P 0202
Coop. w/FWS Lease OCS-P 0203
Secretarial Order 2974 Conservation Mgr., Western Region (w/o attachments)
District Engineer, Santa Barbara (w/o attachments)
District Geologist, L.A. (w/o attachments)
Environmental Section (w/o attachments)

JLHOLTE/fls

July 1, 1976

Memorandum

To: Manager, Pacific OCS Office, BLM
From: Oil and Gas Supervisor, Pacific Area
Subject: Plan of Development, Oil Spill and H₂S Contingency Plans, Hueneme Offshore Field, Leases OCS-P 0202 and 0203, Mobil Oil Corporation

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(Orig. Sgd.) F. J. SCHAMBECK

F. J. Schambeck

Attachments

Receipt acknowledged _____
(Date)

By _____
(Name) (Title) (Office)

cc: Coop. w/BLM Lease OCS-P 0202 - - - - - Copy for
Coop. w/FWS Lease OCS-P 0203
Secretarial Order 2974 Conservation Mgr., Western Region (w/o attachments)
District Engineer, Santa Barbara (w/o attachments)
District Geologist, LA (w/o attachments)
Environmental Section (w/o attachments)

JLHOLTE/fls