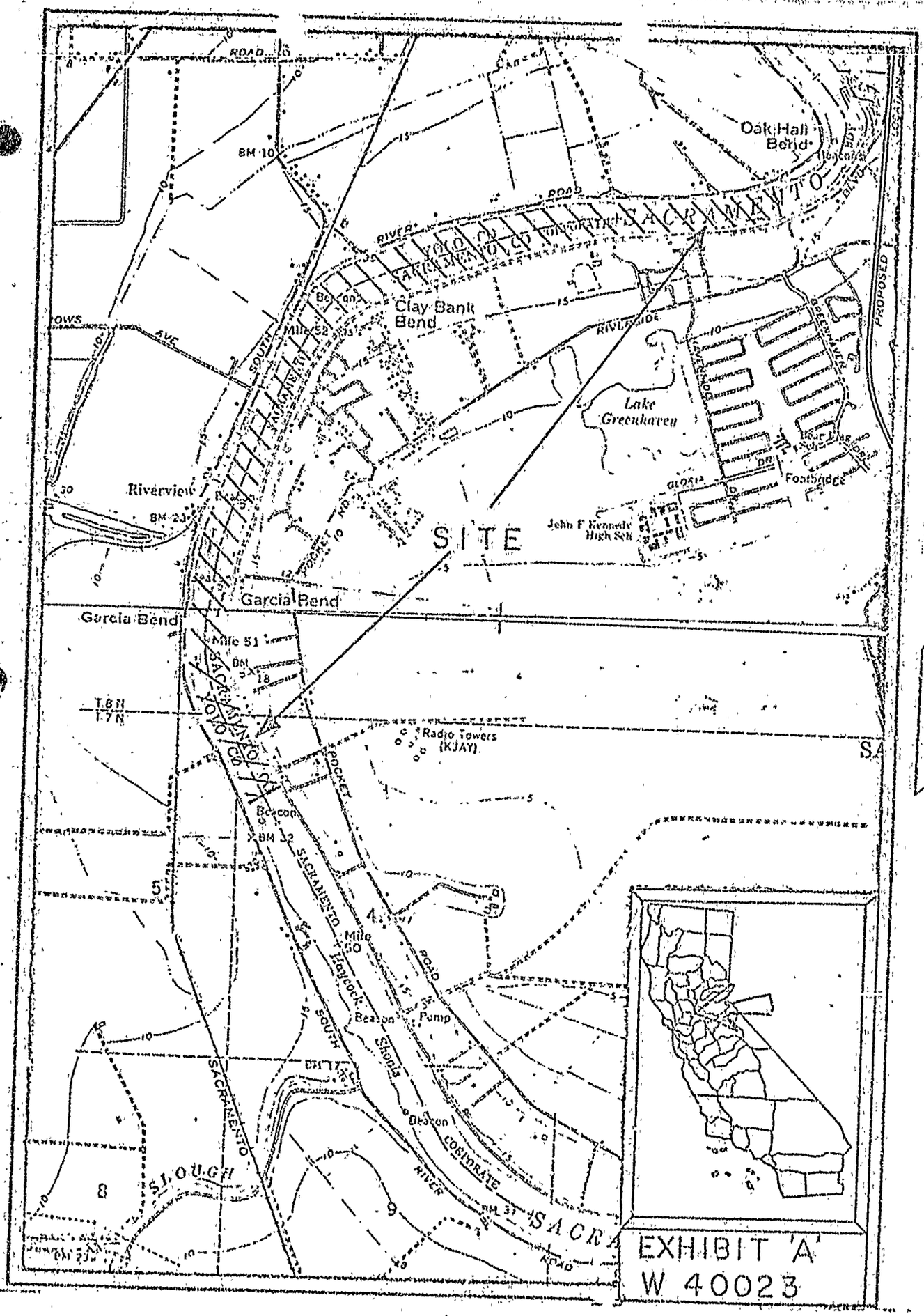
Oak Hall Bend
Clay Bank Bend
Lake Greenhaven
Riverview
SITE
Garcia Bend
Garcia Bend
Radio Towers (KJAY)
Hancock Shoals
Pump
SLOUGH
EXHIBIT 'A'
W 40023

876

EXHIBIT "B"

DIESEL POWERED INDUSTRIAL ENGINE

EMISSION FACTORS AND RATES

750 H.P.[1]

	g/hp. hr.[2]	at 75%[3] load factor	g/sec.	tons/mo.
Carbon Monoxide (CO)	3.030	2.27	0.47	1.37
Exhaust Hydrocarbons (HC)	1.120	.84	0.17	.51
Evaporative Hydrocarbons	None	--	--	--
Crankcase Hydrocarbons	None	--	--	--
Nitrogen Oxides (NO_x)	14.000	10.50	2.18	6.32
Aldehydes	0.210	0.16	0.03	.12
Sulfur Oxides (SO_x)	0.931	0.70	0.15	.42
Particulate (Part)	1.000	0.75	0.16	.45

1. Total H.P. - two engines of approximately 350 hp. and 400 hp. will be used.
2. Data obtained from EPA, AP-42 Supplement 5; December 1975, p. 3.3.3-1.
3. Hoisting operations will require 675 hp. for approximately 6 hours/day and drilling operation will require 525 hp. 18 hours/day.

load factor 1 = 675/750 = 90%

load factor 2 = 525/750 = 70%

$$\text{Average load factor} = \frac{(0.90)\ (6) + (0.70)\ (18)}{24} = 75\%$$

CITY OF SACRAMENTO

CITY PLANNING COMMISSION
915 "I" STREET
CITY HALL - ROOM 308
SACRAMENTO, CALIF. 95814
TELEPHONE (916) 449-5604

Ethan Browning, Jr.
PLANNING DIRECTOR

Your File # W 40023

DATE MAY 18 1977
L. DJE
CPL
ADM
AH 3CM-GA
Enc.
FILE: W 40023

May 13, 1977

Mr. D. J. Everetts
State Lands Division
State Lands Commission
100 Oceangate, Suite 300
Long Beach, CA 90802

Subject: Proposed Gas and Oil Well, Yolo County California

Dear Mr. Everetts:

This item was presented to the Commission during its regular meeting of May 12, 1977. The Commission determined that the well drilling operation initiated in Yolo County is classified as a "use" within the boundaries of the City of Sacramento because the subject well is slant drilled beneath property within the City. All gas and oil well uses within the City of Sacramento require special permit approval by the Planning Commission.

The Standard Oil Company of California must submit an application and special permit, and obtain approval by the City Planning Commission prior to initiating any well drilling operations in Yolo County which extend below property within the City of Sacramento.

The Planning Commission and staff are very concerned about the possibility of "subsidence" taking place in Sacramento as a result of the well drilling operation. The area in Sacramento beneath which the wells would extend is drained by several concrete-lined drainage canals. The staff is concerned that subsidence, if it occurs, would detrimentally affect these canals. Subsidence would, in the staff's opinion, also affect underground improvements in the area.

If you have any questions regarding the above, please contact me at your convenience.

Very truly yours,

Carl L. Durling

Carl L. Durling
Principal Planner (Acting)

CLD:bw

COUNTY OF YOLO

PLANNING DEPARTMENT
292 WEST BEAMER
WOODLAND, CALIFORNIA 95695
TELEPHONE 666-8556
AREA CODE 916

May 12, 1977

D. J. Everitts
Manager, Energy and Mineral
Resource Development
State Lands Division
100 Oceangate, Suite 300
Long Beach, California 90802

MAY 16 1977
DATE
1 DJE
2 ADW
3 CAP
Enc.
FILE: W40023

Re: File No. W40023

Dear Mr. Everitts:

In regards to the application from Standard Oil Company of California for a subsurface oil and gas lease, underlying a portion of the Sacramento River between Garcia Bend and Oak Hall Bend in Yolo County, the staff concurs with your determination that the proposed project will not have a significant effect on the environment and that a Negative Declaration would be appropriate.

Very truly yours,

Doris A. Nilmeier

Doris A. Nilmeier
Junior Planner

DAN:eap

COUNTY OF SACRAMENTO

HEALTH AGENCY

JAMES T. HARRISON, M.D., ADMINISTRATOR

DEPARTMENT OF COMMUNITY HEALTH
COLIN T. GREENLAW, M.D., M.P.H., DIRECTOR
3701 BRANCH CENTER ROAD
SACRAMENTO, CALIFORNIA 95827

May 11, 1977

DEPARTMENT ADMINISTRATION
Director 366-2176
Dep. Dir. Office Tower 366-2175

COMMUNITY HEALTH PROGRAMS
Administration; Water Sciences 366-2171
Mental and Child Health 366-2151
Employee Health 440-3931
Program Coordination 366-2171
Public Health Health 366-2171
Public Health Laboratory 440-3501

DISEASE CONTROL & BIOSTATISTICS
Administration
Disease Controller 366-2181
Epidemiology 366-2181
Public Health Veterinarian 366-2181
Vital Statistics 366-2115

ENVIRONMENTAL HEALTH PROGRAMS
Administration Information, Permits, Inspections 366-2101
Air Pollution Control 366-2107
Dairy Program 366-2135
Food Program 366-2132
Housing Program 366-2131
Occupational Health 366-2109
Solid Waste/Land Use 366-2043
Water Hygiene Program 366-2103

DATE MAY 16 1977
DJE
OFB
ZKDW
BGP
Enc.
FILE: W40023

D. J. Everitts, Manager
Energy & Mineral Resources Development
State Lands Division
100 Oceangate, Suite 300
Long Beach, California 90802

RE: Your File No. W40023

Dear Mr. Everitts:

This is to respond to your request of April for comments concerning your proposed negative declaration of environmental impact relating to an application of the Standard Oil Company to drill an exploratory well in Yolo County to probe for natural gas deposits under the Sacramento River south of West Sacramento.

The proposed drill sites at ground level are not within our Air Pollution Control District; therefore, we do not have jurisdiction over air pollution emissions from such sites. We do, however, concern ourselves with such emissions if we believe the downwind impact to Sacramento would b significant and deleterious.

We have reviewed the material submitted with your request, and it is our opinion the air pollution impacts would be insignificant. We, therefore, will interpose no objectio to a negative declaration in this case.

Very truly yours,

O. H. Vellner for

J. C. FOUST, M.D.
Acting Air Pollution Control Officer

JCF:dh

cc: Yolo-Solano Air Pollution Control District

State of California

Resources Agency of California

Memorandum

To: State Lands Division
100 Oceangate, Suite 300
Long Beach, CA 90802

Attn: D. J. Everitts

Date: 6 May 1977

MAY 9 1977
DATE
FILE: W40023

From: California Regional Water Quality Control Board
Central Valley Region
3201 S Street, Sacramento, California 95816
Phone: 445-0270

Subject: Comments on Initial Study, Your File No. W40023
Subsurface Gas Lease to Standard Oil, Yolo County

If toxic materials are to be used in the drilling muds, the mud pits must be lined with an impervious material and the spent mud must be disposed of at a site approved by this Board. A negative declaration may not be appropriate unless proper procedures for mud disposition are followed.

The applicant should contact this office to determine if waste discharge requirements will be necessary.

W. S. Johnson

WILLIAM S. JOHNSON
Senior Engineer
Delta Watershed

JGJ/jw

cc: Yolo CHD

State of California

Memorandum

To : State Lands Division
1807 13th Street
Sacramento, California 95814

5/9/77
1 DJE
GFE
2 ADW
RGP
3 DE
4 CP
FILE

THE RESOURCES AGENCY OF CALIFORNIA

Date : May 5, 1977

Subject: File No. W 40023
Chevron U.S.A. Inc.
Exploratory Drilling Program in
Sec. 32, T. 8N., R. 4E., or
Sec. 5, T. 7N, R. 4E., Yolo County

From : Department of Conservation — Division of Oil and Gas
Sacramento

Pursuant to your request, we submit the following comments on the subject project.

Page 4, Item C. Interstate 80 is over four miles to the north. We do not consider that to be nearby.

Page 4. Last paragraph, lines 7, 8, and 9. This should be past tense as there is no current oil production in the Sacramento Valley. The Winters Gas Field - Oil Zone has been abandoned.

Page 7, Item 7. Second sentence. Surface casing has two functions:

1. Provide anchorage for blowout prevention equipment.

2. Protect freshwater deposits or a portion of the freshwater deposits.

Page 10. Second paragraph, second and third sentences. This is questionable reservoir engineering practice for a gas reservoir. Maximum recovery from a non-volumetric gas reservoir is obtained by production in excess of water influx. Restricting production to rate of water influx would increase volume of gas remaining in pore space (per unit volume) at abandonment and lower the amount of gas recovered. As the State of California is a royalty owner, a higher rate of production should be of benefit to the citizens of the State.

Page 11, Item 12. Is it the proposal of State Lands to have Chevron U.S.A. Inc. purchase a water well or to purchase water from an owner of a well? Clarify.

There is no mention of how the freshwater aquifer is to be protected. The 1973 report of the United States Geological Survey prepared in cooperation with the Department of Water Resources of the State of California indicates that the fresh-water deposits should extend to 2000'±. The freshwater deposits will have to be protected by cement at time of completion and/or abandonment.

Thank you for the opportunity to comment.

M. G. Heffern
Acting Chief
Division of Oil and Gas

STATE LANDS
RECEIVED
MAY 9 1977
STATE LANDS DIVISION
SACRAMENTO

882

COUNTY OF SACRAMENTO
OFFICE OF THE COUNTY EXECUTIVE
COMMUNITY DEVELOPMENT AND ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL IMPACT SECTION

David L. Smith
COUNTY EXECUTIVE

WILLIAM B. POND
AGENCY ADMINISTRATOR

MAY 9 1977
DATE
1 DJB
OFE
2 AEW
3 CPP
Enc.
FILE: W 40023

May 4, 1977

D. J. Everitts
Manager, Energy and Mineral Resources Dev.
State Lands Division
100 Oceangate, Suite 300
Long Beach, CA 90802

Subject: Initial Study for the Issuance of a Subsurface Oil and Gas Lease Covering a Portion of the Sacramento River

Dear Mr. Everitts:

This office has reviewed the subject Initial Study and found it to be complete. We have no objections to the issuance of a Negative Declaration providing that the proposed mitigating measures described under item 7 on page 7 of the Initial Study are implemented.

We appreciate the opportunity to review this environmental document.

Sincerely,

for Alcides Freitas
Environmental Coordinator

AF:phg

301-C 440-7914
827 SEVENTH STREET • ROOM [illegible] • SACRAMENTO, CALIFORNIA 95814 • (916) [illegible]

James A. Koslow
Air Pollution Control Officer
Telephone 666-8433

YOLO-SOLANO
AIR POLLUTION CONTROL
DISTRICT

P.O. BOX 1006
WOODLAND, CALIF. 95695

May 2, 1977

DATE MAY 4 1977
1 DJE
CFF
2 ADW
3 CRP
Enc.
FILE: W 40023

D. J. Everitts, Manager
Energy and Mineral Resources Development
State Lands Division
100 Oceangate, Suite 300
Long Beach, CA 90802

Dear Mr. Everitts:

This will acknowledge your letter dated April 26, 1977 (File W 40023) concerning the proposed oil and gas lease underlying a portion of the Sacramento River between Freeport Bend and Oak Hall Bend, Sacramento and Yolo Counties, for Standard Oil Company of California. The following comments are given:

1) The District has not been requiring permits for exploratory drilling, and will not on this project for exploration purposes.

2) Recently the District effected an "emission allowance" for the new sources program relative to achieving and maintaining air quality standards. The emissions from diesel engines given in Exhibit B would be significant relative to the emission allwances but are not counted in the emission allowance because the exploratory operation will not require a permit.

   However, the District should be notified when operations actually occur so that accounting can be made of the emissions.

3) If the well is capped, or if any hydrocarbon emissions result from a pipeline hookup for a producing or development well, no District permit will be required. However, the District will require information that such conditions exist.

4) The District has a concern that hydrocarbon emissions of any kind, including methane, can contribute to the photochemical production of ozone/oxidant in the area.

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The District also has reason to believe that natural gas producing sites, which have process equipment involved, do result in substantial emissions of hydrocarbons (mostly methane) above ambient levels. As such, producing sites will be required to have Authority to Construct such facilities and Permits to Operate such facilities. The operators should contact the Yolo-Solano Air Pollution Control District in such a case.

If there are any questions, please contact this office.

Sincerely,

James A. Koslow
Air Pollution Control Officer

JAK:ra

State of California

The Resources Agency

Memorandum

To : D. J. Everitts, Manager
Energy and Mineral Resources Development
State Lands Division
100 Oceangate, Suite 300
Long Beach, CA 90802

Date: May 2, 1977

From : Department of Fish and Game

Subject: Initial Study, Proposed Oil and Gas Lease, Standard Oil Company, Sacramento and Yolo Counties - W40023

Department of Fish and Game personnel have reviewed the subject report and find it acceptable for preparation of a Negative Declaration. The proposed project, as described, should have a minimal impact on fish and wildlife resources. Therefore, we have no comments or recommendations to present.

E C Fullerton
Director

DATE MAY 6 1977
1 DJE
CFE
2 ADW
3 CPP
Enc.
FILE: W 40023