

MINUTE ITEM

This Calendar Item No. 4
was approved as Minute Item
No. 4 by the State Lands
Commission by a vote of 3
to 2 at its 11-17-80
meeting.

CALENDAR ITEM

4.

11/80
W 40135
Freckman

PROPOSED OIL AND GAS LEASES TO BE OFFERED
WITHIN A PORTION OF LINDSEY SLOUGH

APPLICANT: McCulloch Oil and Gas Corporation
10880 Wilshire Blvd.
Los Angeles, California 90024

AREA, LAND TYPE AND LOCATION:
Tide and submerged lands within the bed
of Lindsey Slough (see Exhibit "A" - location
map), Solano County.

Parcel No. 1 - 86.27 acres
Parcel No. 2 - 152.22 acres
Parcel No. 3 - 175.52 acres

Total 414.01 acres

TERMS: Primary Term: 20 years, Drilling Term: 1
year, Surety Bond: \$100,000.

PROPOSED ACTION:
Lease the subject lands (see Exhibit "B"
Land Descriptions) for extraction of oil
and gas pursuant to competitive public
bid. Each of the three parcels will be
leased separately. Access to each parcel
will be from the uplands surrounding the
slough. The successful bidders will be
slant drilling into the State parcels at
depths greater than 500' below the surface.

The drilling and testing procedure will
be conducted in accordance with the rules
and regulations of the State Lands Commission
and other applicable agencies.

A 4

S 4

CALENDAR ITEM NO. 4. (CONTD)

Pursuant to Section 6827 of the Public Resources Code, it is proposed to award the lease(s) to the qualified bidder(s) who undertakes to pay the highest percentage of net profits derived from the lease(s) according to the accounting procedures attached to the lease(s) on file in the Office of the State Lands Commission. The successful bidder(s) would agree to pay to the State, in addition to the percentage of net profits, royalty of 16 2/3% on oil, gas, and other hydrocarbon products extracted from the leased parcel(s). In addition to the percentage of net profits and the royalty described above, a rental of \$20 per acre per year will be charged.

The staff will, subsequent to authorization by the State Lands Commission, offer the prior described parcel(s) for competitive public bid and issue the lease(s) to the qualified bidder(s) who offers the highest percentage of net profits derived from oil, gas, and other hydrocarbon products extracted under the lease(s).

PREREQUISITE ITEMS:

This project is situated on State land identified as possessing significant environmental values pursuant to PRC 6370.1 and is classified in a use category, Class B, which authorizes limited use compatible with and non-consumption of such values.

In accordance with the State Guidelines for implementation of the CEQA of 1970, as amended, Commission staff prepared an Initial Study for the project and concluded that the proposed work will not result in a significant effect on the environment. As a result of the findings of the Initial Study, the preparation of an EIR is not required. As such, a Negative Declaration (Exhibit "C") was prepared and circulated to concerned agencies and to the public.

CALENDAR ITEM NO. 4. (CONTD)

In accordance with Section 6873.2 of the Public Resources Code, the staff held a public hearing on March 6, 1980, to consider subsidence and pollution control for the proposed leases on the bed of Lindsey Slough. There were no significant comments made at the hearing.

The proposed lease has been reviewed by staff counsel who have advised that the proposed lease will comply with the applicable provisions of the law and the rules and regulations of the Commission.

EXHIBITS: A. Location Map.
 B. Land Descriptions.
 C. Negative Declaration.

IT IS RECOMMENDED THAT THE COMMISSION:

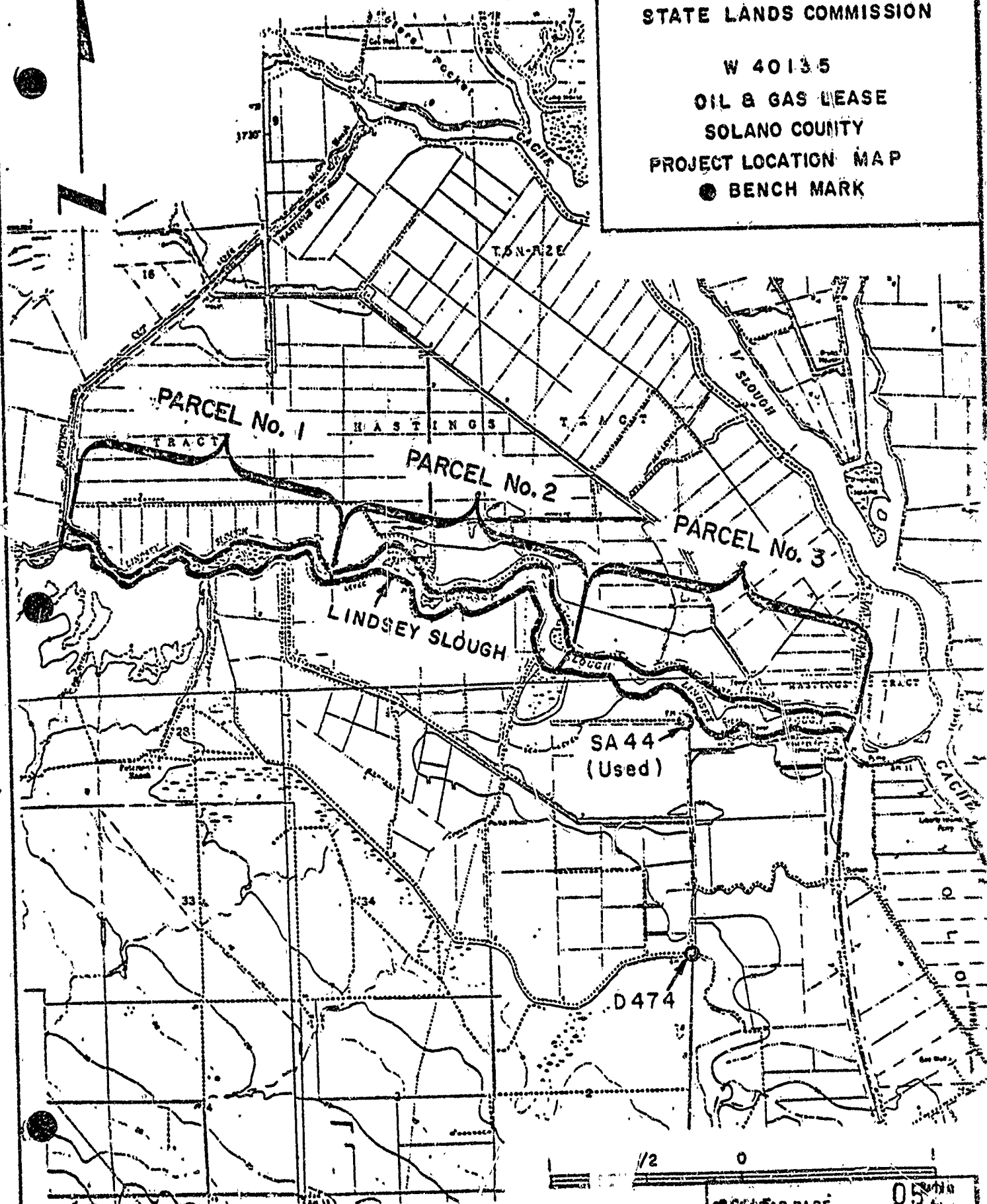
1. DETERMINE THAT AN EIR HAS NOT BEEN PREPARED FOR THIS PROJECT BUT THAT A NEGATIVE DECLARATION HAS BEEN PREPARED BY COMMISSION STAFF.
2. CERTIFY THAT THE NEGATIVE DECLARATION (EIR ND 257) HAS BEEN COMPLETED IN COMPLIANCE WITH CEQA OF 1970, AS AMENDED, AND THE STATE EIR GUIDELINES AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
3. FIND THAT GRANTING OF THE LEASE(S) WILL HAVE NO SIGNIFICANT EFFECT UPON ENVIRONMENTAL CHARACTERISTICS IDENTIFIED PURSUANT TO SECTION 6370.1, OF THE P.R.C.
4. AUTHORIZE THE STAFF TO OFFER, BY COMPETITIVE PUBLIC BID AS PER SECTION 6827 OF THE PUBLIC RESOURCES CODE, AN OIL AND GAS LEASE FOR PARCEL NO. 1, PARCEL NO. 2, AND PARCEL NO. 3, AS DESCRIBED IN EXHIBIT "B" HEREIN, AS FOLLOWS:
 - a. THE LEASE AWARD IS TO BE MADE TO THE QUALIFIED BIDDER OFFERING THE HIGHEST PERCENTAGE OF NET PROFITS DERIVED FROM OIL, GAS, AND OTHER HYDROCARBON PRODUCTS EXTRACTED FROM THE LEASED PARCEL(S).

CALENDAR ITEM NO. 4. (CONTD)

- b. THE BID LEASE FORM TO BE USED FOR EACH PARCEL SHALL BE THE FORMS ON FILE IN THE OFFICE OF THE STATE LANDS COMMISSION IDENTIFIED AS W 40135 (PARCEL NO. 1), W 40135 (PARCEL NO. 2), AND W 40135 (PARCEL NO. 3) AND BY REFERENCE MADE A PART HEREOF. THE RENT IS TO BE \$20.00 PER ACRE PER YEAR, AND THE DRILLING TERM IS TO BE ONE YEAR. THE PERFORMANCE BOND IS TO BE IN THE AMOUNT OF \$100,000. ROYALTY ON OIL AND GAS WILL BE 16 2/3 PERCENT.

EXHIBIT "A"
STATE LANDS COMMISSION

W 40135
OIL & GAS LEASE
SOLANO COUNTY
PROJECT LOCATION MAP
● BENCH MARK



CACHE PAGE

MINUTE PAGE

05
2679

EXHIBIT "B"

LAND DESCRIPTION

Three parcels of tide and submerged land lying within the bed of Lindsey Slough, situated in TSN, R2E, and TSN, R3E, MDM, County of Solano, State of California, and more particularly described as follows:

PARCEL 1

All the tide and submerged land lying within the bed of Lindsey Slough, situated in Sections 20, 21 and 22, TSN, R2E, MDM, being bounded on the west by the southerly extension of the westerly line of Hastings Cut, and bounded on the east by the northerly extension of the west line of the east half of the west half of Section 27, TSN, R2E, MDM. Excepting therefrom any portion lying landward of the ordinary high water mark of Lindsey Slough.

PARCEL 2

All the tide and submerged land lying within the bed of Lindsey Slough, situated in Sections 22, 23, 26 and 27, TSN, R2E, MDM, being bounded on the west by the northerly extension of the west line of the east half of the west half of Section 27, and bounded on the east by the northerly prolongation of the easterly line of the parcel of land described in the assignment of oil and gas lease from Humble Oil and Refining Company to Richfield Oil Corporation, recorded November 15, 1960, in Book 1052 of Official Records, page 599, Instrument No. 22390. Excepting therefrom any portion lying landward of the ordinary high water mark of Lindsey Slough.

PARCEL 3

All the tide and submerged land lying within the bed of Lindsey Slough, situated in Sections 25 and 26, TSN, R2E, MDM and Section 30, TSN, R3E, MDM, being bounded on the west by the northerly prolongation of the easterly line of the parcel of land described in the assignment of oil and gas lease from Humble Oil and Refining Company to Richfield Oil Corporation, recorded November 15, 1960, in Book 1052 of Official Records, page 599, Instrument No. 22390, and bounded on the east by the southerly extension of the westerly line of Cache Slough. Excepting therefrom any portion lying landward of the ordinary high water mark of Lindsey Slough.

STATE LANDS COMMISSION

KENNETH CORY, Controller
MIKE CURR, Lieutenant Governor
~~XXXXXXXXXX~~ Director of Finance
MARY ANN GRAVES

EXHIBIT "C"



EXECUTIVE OFFICE
1807 - 13th Street
Sacramento, California 95814
WILLIAM F. NORTHROP
Executive Officer

EIR ND 257

File Ref.: W 40135

NEGATIVE DECLARATION

Project Applicant: McCulloch Oil and Gas Corporation
10880 Wilshire Boulevard
Los Angeles, CA 90024

Project Location: State Lands Located Within the Bed of Lindsey
Slough, Solano County

Project Description: To explore for and, if a discovery is made,
produce natural gas from under the State lands.

This NEGATIVE DECLARATION is prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et. seq. of the Public Resources Code), the State EIR Guidelines (Section 15000 et. seq., Title 14, of the California Administrative Code), and the State Lands Commission regulations (Section 2901 et. seq. of California Administrative Code).

Based upon the attached Initial Study, it has been found that:

- ☐ the project will not have a significant effect on the environment.
- ☒ the attached mitigation measures will avoid potentially significant effects.

Contact Person: Ted Fukushima (916) 322-7813
State Lands Commission
1807-13th Street
Sacramento, CA 95814

Form 13-11 (10/79) 54
MINUTE PAGE 2681

Responses to comments on the Initial Study previously circulated.

1. ref. letter - Dept. of Army, Corps of Engineers - November 6, 1979. No drilling will be conducted in Lindsey Slough or on the adjacent levees or within 10' of the landward toe of the levees.
2. ref. memo - The Reclamation Board, Dept. of Water Resources - October 10, 1979. Answer as above.
3. ref. letter - Yolo - Solano Air Pollution Control District - October 17, 1979. The prospective lessees are hereby advised that the Yolo - Solano APCD requires a Permit to operate for a producing well.

DATE	NOV 13 1979
1	DJE
	CPE
2	ADW
	RCP
3	KK
4	JTS
5	JW
Enc.	
FILE:	40155

Memorandum

To : D. J. Everitts, Chief
Division of Energy and
Mineral Resources
State Lands Commission
100 OceanGate, Suite 300
Long Beach, CA 90802

Date: NOV 7 1979

In Reply Refer
To: 420/KH
916/322-4512

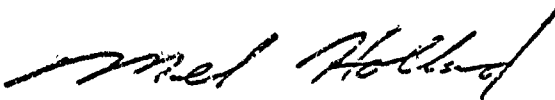
From: STATE WATER RESOURCES CONTROL BOARD
Division of Planning and Research
P. O. Box 100, Sacramento, California 95801

Subject: Competitive Bid Oil and Gas Lease on a Portion of Lindsey Slough

Thank you for the opportunity to review your initial study for the subject project.

The State Water Resources Control Board and the California Regional Water Quality Control Board, Central Valley Region, have reviewed the study. From the data presented, it appears that a negative declaration will provide adequate environmental documentation for water related issues.

Please contact John Huddleson at 916/322-9870 if you need any further assistance.


Mel Holland
Assistant Division Chief

cc: California Regional Water Quality Control
Board, Central Valley Region
3201 S Street
Sacramento, CA 95816



DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
650 CAPITOL MALL
SACRAMENTO, CALIFORNIA 95814

REPLY TO
ATTENTION OF

SPKED-W

Mr. D. J. Everitts
Chief, Division of Energy
and Mineral Resources
State Lands Commission
100 Oceangate, Suite 300
Long Beach, California 90802

DATE	NOV 13 1979
1	DJE
	CPE
2	ADW
	RCF
3	JK
4	JTF
Enc.	
FILE: W40135	

6 November 1979

Dear Mr. Everitts:

This is in response to your letter of 10 October 1979 requesting comments on the nomination for a competitive bid oil and gas lease on a portion of Lindsey Slough in Solano County. Unfortunately, we in the Sacramento District, who are responsible for the area under consideration, received the letter via the Corps' San Francisco District, leaving little time before the requested submittal date for comments of 1 November 1979. Consequently, this submittal date was extended by telephone conversation of 30 October 1979 between Mr. Mark Capik of our staff and Mr. Al Willard of yours. We regret the inconvenience and appreciate the extra time. Our comments are as follows.

As required by Section 10 of the River and Harbor Act of 3 March 1899, which prohibits the unauthorized obstruction or alteration of any navigable water in the United States, a Department of the Army permit will be required from this office for any work done below mean high tide elevation for the reach in question on Lindsey Slough. Also, in accordance with Section 404 of the Clean Water Act (33 USC 1344), a Department of the Army permit would be required if any dredged or fill material is placed below the mean high tide elevation in Lindsey Slough or adjacent wetlands. For additional information on our permit program, you may contact Mr. Art Champ of our Operations Branch at telephone (916) 440-2842.

Finally, in conjunction with the Corps' Sacramento-San Joaquin Delta Investigation, and as a part of the State's Delta Master Recreation Plan, Lindsey Slough has been designated as a significant natural

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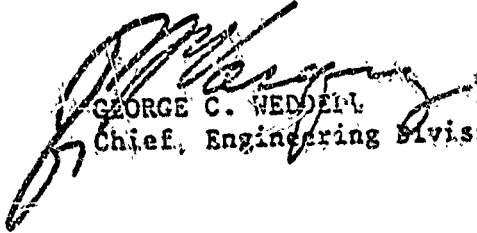
6 November 1979

241ED-W
Mr. D. J. Everitts

resource and scenic area. Because of the particular resources identified in the Lindsay Trough area, we believe that measures should be taken to insure the protection of these values.

We appreciate the opportunity to comment on this issue and will be glad to provide further assistance if it is needed.

Sincerely,


GEORGE C. WEDDELL
Chief, Engineering Division

AMERADA HESS CORPORATION

BOX 417
RIO VISTA, CALIFORNIA 94571
707-374-6461

October 29, 1979

Mr. D. J. Everitts
State of California
State Lands Commission
100 Ocean Gate, Suite 300
Long Beach, CA 90802

DATE	10/29/79
TO	DJE
FROM	2-DR
RE	3-PR 2K
CC	1-JF
Enc.	
FILE	10-125

Dear Mr. Everitts:

In regards to your file reference #W40135, Initial Study for Competitive Bid Oil and Gas Lease, Lindsey Slough, Solano County, we have reviewed the Initial Study and have no problems or comments to add.

We would appreciate a copy of the bid package as soon as it becomes available. Thank you.

Brian J. Skeels
Brian J. Skeels
Operations Manager

Gael H. Troughton
Gael H. Troughton
Senior Geologist

GHT:sam

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MINUTE PAGE	2585

McCulloch Oil and Gas Corporation



October 30, 1979

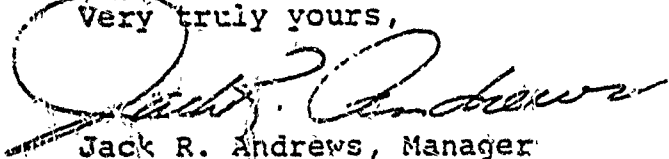
Mr. Al Willard
State Lands Commission
100 Ocean Gate
Suite 300
Long Beach, California 90802

Re: Lindsey Slough Prospect
DB 77/78-10
Your Ref: W 40135
Solano County, California

Dear Mr. Willard:

In response to your letter of October 10, 1979 concerning the initial Study for competitive bid on a portion of the Lindsey Slough in Solano County, California, this is to advise that McCulloch has no additions or comments regarding this study. We feel that you have thoroughly covered the matter in your study.

Very truly yours,


Jack R. Andrews, Manager
Lease Acquisition & Records Dept.

JRA:vk

DATE	10/30/79
DJE	
CTE	
ADS	h
SEP	
EIP	
Enc.	1 JTF JTF
FILE	

CALENDAR PAGE	060
MINUTE PAGE	2687

Memorandum

Al Willard
Division of Energy and
Mineral Resources
State Lands Commission
100 Ocean Gate, Suite 300
Long Beach, CA 90802

DATE	OCT 25 1979
DJE	
CFE	
ADW	<i>A</i>
RGP	
2 RK	<i>RK</i>
3 MH	<i>MH</i>
Enc. 4 JTF	<i>JTF</i>
FILE: W 40167 + W 40135	

Date: October 25, 1979

- make copy for file

Bob Slattery
From : STATE SOLID WASTE MANAGEMENT BOARD

Subject: Oil Leases for W 40167 (Molino - Santa Barbara Co.) and W 40135 (Solano Co.).

We have reviewed these projects and have no comments. Thank you for the opportunity to review these applications.

CALENDAR PAGE

061

MINUTE PAGE

2688

Memorandum

D. J. Everitts, Chief
Division of Energy and
Mineral Resources
State Lands Commission
100 Oceanside, Suite 300
Long Beach, CA 90802

Attention: Al Willard

From : THE RECLAMATION BOARD
Department of Water Resources

Date : OCT 24 1979

File No.:

Subject: Initial Study for
Competitive Bid Oil and Gas
Lease - Lindsey Slough, Solano
County

We have reviewed the subject Initial Study and offer the following comments:

The prospective oil and gas lease on a portion of Lindsey Slough is within or adjacent to the Lindsey Slough project levees which are under the jurisdiction of The Reclamation Board. Therefore, the lessee will require the prior approval of The Reclamation Board before starting any work on the site.

Please advise all potential lessees that they can contact Mr. Ted Allen, Floodway Permit Section, Department of Water Resources, Room 335-10, 1416 Ninth Street, Sacramento, CA 95814, telephone (916) 445-9225, for applications and information.

No drilling is to be done within the levee section, and prior to any exploratory drilling on or adjacent to the levees, the Department of Water Resources must be contacted. The Department contact person is Mr. Russ Franson, Central District, Department of Water Resources, 3251 S Street, Sacramento, CA 95816, telephone (916) 445-8458.

Thank you for furnishing this Initial Study for review.

Eldon E. Rinehart
ELDON E. RINEHART
General Manager
8-485-9454

DATE	OCT 29 1979
1 DJE	✓
CSE	
2 ADW	✓
EGP	
3 CFF	
Enc SJTF	ENC
FILE:	WJ 3155

* *Revised*
MINUTE PAGE

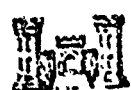
2689

DATE OCT 21 1970
 1 DJR
 CFF
 2 ALW
 RGP
 3 RLC
 4 STP 18 October 1970
 Enc.
 FILE: W 40135

Dear Mr. Everitts

This office has forwarded your letter File Ref. W 40135 to our office in Sacramento for their answer to you as the area of concern is in their area of responsibility.

TRULY YOURS
Hans Jamm



U.S. ARMY ENGINEER DISTRICT
 SAN FRANCISCO
 CORPS OF ENGINEERS

HANS J. LAMM
 CHIEF, ENFORCEMENT SECTION

211 MAIN STREET
 SAN FRANCISCO, CALIF. 94105 TEL. (415) 836-8966



James A. Roslew
Air Pollution Control Officer
Telephone 466-8433

1	DJE	✓
2	CFE	
3	ADW	✓
4	RUP	
5	PK	✓
6	JIF	✓
Enc. _____		
FILE: W40135		

YOLO-SOLANO
AIR POLLUTION CONTROL
DISTRICT

P.O. BOX 1006
WOODLAND, CALIF. 95675

October 17, 1979

Mr. D. J. Everitts, Chief
Division of Energy and Mineral Resources
State Lands Commission
100 Ocean Gate, Suite 300
Long Beach, CA 90802

Dear Mr. Everitts:

This letter is in response to your letter dated October 10, 1979 concerning a Negative Declaration covering an oil and gas lease on a portion of Lindsey Slough in Solano County.

It is the District's opinion that the emissions from the development of these lands into natural gas producing wells would not contribute significantly to air pollution levels. The District would like to be informed when operations begin, particularly as to use of combustion engines for the operation, and when operations are closed.

However, the bidders should be notified that the Yolo-Solano APCD does require an evaluation as to the need for a Permit to Operate for a producing well.

If you have any questions please contact the District Engineer, Mr. Carroll Robertson.

Sincerely,

Tom Armstrong

Tom Armstrong
Air Pollution Control Inspector

TA:ra

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IR/NOTICE MAILING LIST

W 40135

*Honorable Thomas W. Nielsen
Member of the Senate
4th District
California State Legislature
State Capitol
Sacramento, CA 95814

*Honorable Thomas M. Hannigan
Member of the Assembly
4th District
California State Legislature
State Capitol
Sacramento, CA 95814

Salano County Board of Supervisors
Court House
Fairfield, CA 94533

NOTE: If more than one Assembly-
man, Senator or Board of
Supervisors are affected,
add to list in the spaces
provided on the following
pages.

PRESS BUREAU OFFICES AND NEWSPAPERS
(Cross out those not wanted)

Capitol News Service
Fred Kline, Executive Editor
301 Capitol Mall, Suite 300
Sacramento, CA 95814

~~San Francisco Examiner
110 Fifth Street
San Francisco, CA 94103~~

~~Sacramento Bee
21st & Q Street
Sacramento, CA 95804~~

~~UPI News Bureau
207 S. Broadway
Los Angeles, CA 90012~~

~~Associated Press
1111 S. Hill Street
Los Angeles, CA 90015~~

~~Los Angeles Times
Times-Mirror Square
Los Angeles, CA 90012~~

~~United Press International
925 L Street, Suite 1185
Sacramento, CA 95814~~

~~City News Service
107 S. Broadway, Room 1127
Los Angeles, CA 90012
Attn: Mr. Marshall Voight~~

~~Associated Press
925 L Street, Suite 320
Sacramento, CA 95814~~

~~City News Service
P.O. Box 2522
Los Angeles, CA 90054~~

REGIONAL NEWSPAPERS

The Daily Republic
P.O. Box 47
Fairfield, CA 94533

*NOTE: An asterisk indicates that a copy of the original document
will be sent with the notice.

*Mr. William Kier
Senate Office of Research
1116-9th Street, Room 23
Sacramento, CA 95814

*Mr. Jeffrey Arthur, Consultant
Senate Committee on Natural
Resources and Wildlife
State Capitol, Room 2203
Sacramento, CA 95814

*Assembly Committee on
Resources and Land Use
State Capitol, Room 3142

*Chief Clerk of the Assembly
California State Legislature
State Capitol
Sacramento, CA 95814

*Commander, 11th Coast Guard Dist.
19 Pine Avenue
Long Beach, CA 90802
(Southern California Ocean items only)

*Mr. Phil DeYoung
Pacific Gas and Electric Company
P.O. Box 7444
Sacramento, CA 95826

*Mr. N. Gregory Taylor
Assistant Attorney General
Department of Justice
3580 Wilshire Boulevard
Los Angeles, CA 90010

*Mr. Robert H. O'Brien
Environment and Consumer Protection
Department of Justice
3580 Wilshire Boulevard
Los Angeles, CA 90010

*William F. Northrop

*Don Hoagland (Geothermal only)

*NOTE: An asterisk indicates that a copy
of the environmental document will
be sent with the notice.

*Mr. F.J. Hortig
Consulting Engineer
Energy Resources
2216 Westboro Avenue
Alhambra, CA 91803

*Secretary of the Senate
State Capitol
Sacramento, CA 95814

*USC Law Center
USC, Room 122
Los Angeles, CA 90007

Friends of the Earth
717 K Street, Suite 209
Sacramento, CA 95814

APPLICANT

McCulloch Oil & Gas Corp
10880 Wilshire Blvd
Los Angeles, CA 90024

FOR LONG BEACH EIR's ONLY

*The Resources Agency
1416 Ninth Street, Room 1311
Sacramento, CA 95814

*State Clearinghouse (15 copies)
Office of Planning and Research
1400-10th Street, Room 121
Sacramento, CA 95814

*U.S. Fish & Wildlife Service
2800 Cottage Way
Sacramento, CA 95825

*State Library (3 copies)
Government Publications Section
Library and Courts Buildings
Sacramento, CA 95814

_____ Planning Department

See Attached Mailing List

*Environmental Protection Agency
100 California Street
San Francisco, CA 94111
Attn: Paul De Falco, Jr.
Regional Administrator

*U.S. Geological Survey
345 Middlefield Road
Menlo Park, CA 94025
Attn: Reid Stone, Geothermal
Supervisor (Send only
geothermal related docu-
ments)

*Ed Haste, State Director
California State Office
Bureau of Land Management
2800 Cottage Way-Room 28L1
Sacramento, CA 95825

*Union Oil Company of California
P.O. Box 7800
Los Angeles, CA 90051
Attn: Mrs. Ferbrache
(Minerals, Geothermal, Oil & Gas)

AREAWIDE CLEARINGHOUSE
(Where Applicable)

* _____

NOTE: An asterisk indicates that
a copy of the environmental
document will be sent with
the notice

MAILING LIST FOR MEMO WITH INITIAL STUDY:

Department of Fish and Game
Attn.: Mr. Don Lollock
Environmental Services
1416 Ninth Street, 12th Floor
Sacramento, CA 95814

Division of Oil and Gas
Attn.: Mr. M.G. Mefferd
State Oil and Gas Supervisor
1416 Ninth Street, Room 1316
Sacramento, CA 95814

Solid Waste Management Board
Attn.: Mr. Albert A. Marino
Executive Officer
825 "K" Street, Suite 300
Sacramento, CA 95814

Mel Schwartz
Reclamation Board
1416 Ninth Street, RM 204-5
Sacramento, CA 95814

W. Don Maughan, Chairman
California State Water
Resources Control Board
P.O. Box 100
Sacramento, CA 95801

Greg Vaughn,
Regional Water Quality Control Board
3201 "S" Street
Sacramento, CA 95816

W 40135
wlib
wlib

MAILING LIST FOR LETTER WITH INITIAL STUDY:

Air Pollution Control District
Yolo/Solano County
P.O. Box 1006
Woodland, CA 95695

Clayne E. Munk
Solano County Planning Department
Court House
Fairfield, CA 94533

District Engineer
U.S. Army Engineer Dist., San Francisco
211 Main St.
San Francisco, CA 94105

U.S. Fish & Wildlife Service
2800 Cottage Way
Sacramento, CA 95825

Mr. Jack R. Andrews
McCulloch Oil and Gas Corporation
10880 Wilshire Blvd.
Los Angeles, CA 90024

Mr. B.J. Skeels, Operations Manager
Amerada-Hess Corporation
P.O. Box 417
Rio Vista, CA 94571

Mr. Al Marques
Aminoil USA, Inc.
P.O. Box 88
Huntington Beach, CA 92648

Mr. M. James Walker
ARCO Oil and Gas Company
P.O. Box 147
Bakersfield, CA 93302

W 40135
wlik
wljb

STATE OF CALIFORNIA
STATE LANDS COMMISSION

Initial Study for the Issuance of Competitive Bid Sub-surface Oil and Gas Leases Covering a Portion of Lindsey Slough in Solano County and a Plan to Control Subsidence and Pollution.

1. PROJECT AND ITS LOCATION:

The State has received a nomination for a competitive bid subsurface oil and gas lease in Solano County on all of the tide and submerged land lying within the bed of Lindsey Slough in Sections 20, 21, 22, 23, 25, 26, and 27, T. 5N., R. 2E., and Section 30, T. 5N., R. 3E., MDB&M, and bounded on the east by the westerly line of Cache Slough Extended and on the west by the easterly line of Hastings Cut Extended. The slough will be divided into three (3) parcels each of which will be leased separately. They are described in exhibit "A". Parcel No. 1 contains 86.27 acres, parcel No. 2, 152.22 acres, and parcel No. 3, 175.52 acres. Division of Lindsey Slough into three parcels is being considered because there are four different lease-holders whose leases border the slough; three on the south and one on the north. There are two lease-holders bordering each parcel; therefore competitive bidding is required. Upon issuance of leases for the above-described lands subsequent drilling may be undertaken in an effort to determine if economically producible volumes of gas are present beneath the State lands. Exhibits "A", "B" and "C" are included for visual clarification and definition of the area of the proposed project.

2. STATEMENT OF OBJECTIVES SOUGHT BY THE PROPOSED PROJECT:

The objective of this proposed project is to explore for and develop natural gas beneath State lands as described above.

3. GENERAL DESCRIPTION OF THE PROJECT:

In short the project is the issuance of oil and gas leases on the subsurface lands of Lindsey Slough. Upon issuance of the leases exploratory drilling and seismic surveys may be initiated on the land adjacent to the slough. Directional drilling under the State lands from adjacent lands could occur. Locations for test wells have not been determined. Following issuance of the leases and appropriate exploration subsequent drilling may be undertaken to produce volumes of gas that may or may not be present beneath State lands.

4. a) DESCRIPTION OF THE ENVIRONMENTAL SETTING:

The existing physical environment in the vicinity of the nominated parcel (Lindsey Slough in toto) is that of a rural agriculture area. The area is essentially level with an elevation that is at or very near sea level. Lindsey Slough itself is fed by Barker Slough, Calhoun Cut and Hastings Cut. From Hastings Cut Lindsey Slough drainage is generally slightly south of east until it joins with Wright Cut and Cache Slough. The levees bordering Lindsey Slough are 12 to 25 feet above the surrounding land. The slough contains more than a dozen islands. These islands are marshy in nature with the majority of berms being below the mean high water mark; therefore they are considered a portion of the slough bed. Marshy lands also exist just South of the Slough in Section 26, T. 5N., R. 2E.

This marsh is encompassed by an intermittent unnamed Oxbow lake on three sides and Lindsey Slough levee on the North. No levee exists on the extreme

Southwest edge of the Slough; this area is primarily an intermittent lake into which "The Big Ditch" empties. Roads in the vicinity of Lindsey Slough are generally private or unimproved dirt transecting the various properties on either side of the slough. These roads also run along the tops of most of the levee. A medium duty road extends along the eastern segment of the southern levee. This road is part of a route that parallels the western bank of the Sacramento River and Cache Slough. The road exits the Lindsey Slough area to the south about three quarters (3/4) of a mile west of where it enters the Lindsey Slough levee. The land to the north of the Slough, the Hastings Tract, is dotted with several small groupings of residential dwellings. About one-half mile north of the approximate center of the slough is a private airstrip running almost E-W just west of a N-S running road. Near the intersection of this road and the slough is an airway beacon.

In the Hastings Tract lying between Lindsey Slough, Cache Slough and Hastings Cut are 16 abandoned gas wells and two (2) producing gas wells as of August, 1979. Within approximately two miles of the southern edge of Lindsey Slough are no less than 23 producing gas wells and 20 abandoned gas wells.

5. ENVIRONMENTAL IMPACT OF THE PROPOSED PROJECT:

The only long-term environmental impact of the proposed project will be the production of natural gas if gas is discovered, that otherwise might not be produced at all. Thus one beneficial effect of this proposal might be to provide much-needed natural gas to meet the energy requirements of the State. Short-term environmental impacts are probably of more concern than long-term impacts. This is because most probably the life expectancy of producing gas wells would be 10 - 20 years. Short-term environmental impacts have two possible scenarios. The first case would be drilling and possible redrilling of exploratory wells which failed to

find producible gas accumulation. The second case would be the discovery of a commercial gas pool by exploration drilling. In case one, the environmental impacts would have a relatively short duration and would depend on the number of exploration wells drilled next to the approximately four (4) mile length of the slough. Individual well drilling time would probably range from 30 to 60 days depending on the number of redrills from the original well. Environmental impacts would consist of the following:

- A). A moderate increase in traffic on the various roads transiting the area around Lindsey Slough resulting from the transport of equipment, crew personnel and drilling material. The individual rates would be contingent on the drill site selection.
- B). A local increase in noise level above that of normal farm equipment operation to a level of about 70 decibels at 1000 feet from any of the possible drillsites. The effect on housing in the area will be dependent on the location of the wells. Since the levees meander with the slough the chances are good that sound will be somewhat attenuated if any drilling is attempted in close proximity to the slough or the associated levees.
- C). A minor amount of temporary air pollution from the operation of diesel engines that supply power for the drilling activity. This pollution is approximate to that contributed by several diesel-powered heavy duty trucks.

In case two, above, the environmental impacts will be the same as for case one (A, B, and C, above), except that their duration may extend, intermittently, over a longer period of time, depending on how long exploration and possible production takes. Environmental impact would be intermittent, that

is to say impacts would occur as wells were drilled and possibly produced. Drilling operations in the area are expected to yield natural gas only. Pollution potential in a natural gas field is minimal. Subsidence, however, is another consideration if gas is found and produced, but withdrawal of gas generally has an insignificant effect on subsidence because:

- 1). the gas sands are generally thin, ranging from 10 to 50 feet in thickness, and can only compact a small amount.
- 2). the sands are relatively competent and resist compaction.
- 3). the water drive generally fills the sand interstices as the gas is withdrawn.
- 4). water is not extracted with the gas.
- 5). the volume of gas withdrawn is very small relative to the volume of rock involved.

6. ADVERSE ENVIRONMENTAL IMPACTS THAT CANNOT BE AVOIDED IF THE PROJECT IS IMPLEMENTED:

The short-term impacts cited in Item 5, although of minor adverse character, cannot be avoided if this project is implemented to the fullest degree; that is, leasing, exploration and subsequent production.

7. MITIGATING MEASURES PROPOSED TO MINIMIZE IMPACTS:

The drilling of wells will be conducted in strict accordance with the regulations of the State Lands Commission and the State Division of Oil and Gas. Surface casing will be set as prescribed by the regulations to protect the ground water, and approved blowout prevention equipment will be used during drilling operations. Drilling fluids and drill cuttings will be sumped or tanked to a public licensed disposal site and subsequently the site(s) will be cleaned up and restored as nearly as practicable to its former condition.

If a producible gas accumulation is discovered, the gas will be moved from the drillsite(s) by pipeline(s) and there will be no venting or release of gas to the atmosphere during the production phase. No conflict is anticipated with the local residences or the airway beacon or the private airfield in the local vicinity. Suitable measures will be taken in the event any problems develop with the above mentioned locations.

The Lindsey Slough is protected from possible drillsites by its associated levee which stands 12 to 25 feet above the ground level. Drillsites that might be drilled in the area to the SW of Lindsey Slough, where no levee is located, must have appropriate plans for suspension of all drilling and production operations, except those that are corrective, protective, or mitigative, immediately in the event of any disaster or contamination or pollution resulting from operations. Drillsite(s) which are located such as to be separated from Lindsey Slough by the levee shall be constrained by the above-mentioned requirements also. In the event of contamination or pollution, such drilling and production operations shall not be resumed until adequate corrective measures have been taken and authorization for resumption of operations has been made by the State Lands Commission. Corrective measures shall be taken immediately whenever pollution has occurred. Residuary products of oil, drilling fluid, sanitary wastes and other refuse shall be disposed of in approved dumping areas. None of these products will be permitted to enter Lindsey Slough or any other slough, cut or marsh land connected therewith. The lessee(s) will be required to comply with the Commission's applicable procedures for Drilling and Production Operations on tide and submerged lands. The drilling procedures contain detailed engineering requirements on well programming, blowout prevention equipment, testing procedures, drilling

procedures, and supervision and training as related to the safety aspects of drilling. The production procedures cover well completion, remedial and well-maintenance work, subsurface injection projects, waste disposal, safety equipment procedures related to production facility operations and the operation and maintenance of pipelines. It is the responsibility of the Division of Oil and Gas and the State Lands Commission to see that the procedures are followed, and that a system of inspections and reports are required to insure that this is being done.

Certain operations performed in drilling and production work are considered critical with respect to well control, fire, explosion, oil spills, and other discharge or emissions. The critical operations may occur during drilling, well completion and recompletion, well maintenance and stimulation, wireline servicing, facility maintenance and construction. The lessee(s) will be required to submit and have approved by the State Lands Commission a Critical Operations and Curtailment Plan, setting forth critical well operations which will be curtailed when adverse conditions exist.

Even though the chances of discovering oil are slight, the lessee(s) will be required to maintain a current oil-spill contingency plan for initiating corrective action to control and recover oil spilled on any waters or land. The plan will cover both minor and major oil spills associated with lease operations. An integral part of the required contingency plan will be the availability of the services of Clean Bay, Inc., a nonprofit organization formed by the oil industry in the San Francisco area to combat oil spills by preventative and cleanup equipment. This equipment is located in Concord and Martinez, and available for quick response under emergency conditions.

The lessee(s), upon discovery of natural gas or oil, will be required to determine a recent subsidence rate before volumes of gas are produced from the

lease(s). This will be accomplished by precision level surveys of bench marks in the area that are part of the U. S. Coast and Geodetic Survey first order survey network.

The lessee(s) will be also required to establish bench marks in the area to effectively monitor subsidence which will be tied by precise leveling into the control network. Such bench marks set by the lessee(s) shall be surveyed each year and the control network surveyed every two years.

If a sufficient number of drillsites and resultant bench marks are located, a minimum of three (preferably, one on each side of the lease area(s)) will be surveyed for horizontal as well as vertical control. Since it was established that during subsidence (due to the removal of subsurface elements) bench marks will move toward the center or toward the area of deepest subsidence, such procedure could serve to effectively detect areal subsidence.

After discovery, a well may be drilled and programmed to include a "casing joint survey". A "casing joint survey" is a procedure in which a magnetic tool is lowered into the well and, as it is withdrawn, records the magnetic density of the casings. Lengths of casing can be accurately determined by such techniques and comparisons with later surveys or "runs" may indicate casing deformation, a possible result of subsidence. While a casing joint survey may not reveal a total subsidence rate, it will permit the operator to determine if casings opposite the producing sands are undergoing deformation. These surveys would run about every two years as part of the subsidence monitoring procedure.

Many gas sands in the delta region are repressured with a partial or full waterdrive mechanism. If the reservoir has a natural water-drive, then water encroachment or replacement as the reservoir is depleted of gas would sustain formation pressures. This condition could negate any subsidence attributed to gas production.

8. ALTERNATIVES TO THE PROPOSED ACTION:

The proposed action is the eventual issuance of an oil and gas lease(s) by the State Lands Commission to the highest bidder(s) to facilitate the exploration and development of possible natural gas resources on the parcels (segment// of Lindsey Slough) concerned. The only alternative to this action would be for the Commission to not issue the lease(s). This could result in a failure to evaluate a potential source of new natural gas reserves which are sorely needed to supply California's energy requirements.

9. THE RELATIONSHIP BETWEEN LOCAL SHORT-TERM USES OF MAN'S

ENVIRONMENT AND THE MAINTENANCE AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY:

The proposed project as outlined above should have no cumulative or long-term adverse effects. The proposal will neither enhance the state of the physical environment nor will it reduce it over the long term.

It may add to the supply of a clean-burning energy source for a period of 10 to 20 years at the expense of minor local adverse impacts over a period of 12-18 months. The incremental costs and benefits are small in either case, and of quite short duration. At the conclusion of the project there will be no residual impact on man's environment.

10. IRREVERSIBLE ENVIRONMENTAL CHANGES THAT WOULD BE INVOLVED IF

THE PROPOSED ACTION SHOULD BE IMPLEMENTED:

There will be no irretrievable commitment of resources other than production and use of the natural gas. As indicated above, without issuance of the lease(s) in question it may not be possible for the applicant(s) to continue the exploratory program and the potential gas resource will remain unevaluated.

11. GROWTH-INDUCING IMPACT OF THE PROPOSED ACTION:

Because no new permanent employees will move into the area as a result of this temporary work, and because any new facilities (i.e., pipelines, wellhead

assemblies, etc.) will not require permanent attendees, there would be no growth-inducing impact from this project.

12. WATER USE

The source of the water used in drilling operation will probably be from a water well in the area purchased from one of the local property owners.

13. ECONOMIC AND SOCIAL FACTORS:

As indicated above, there will be no growth-inducing impact from this project. If a discovery is made, then a modest increment of additional clean-burning energy source will be available to fuel the State's economy, and the State will derive a royalty income from the lease(s) in question. The overall social impact will be negligible.

14. PERSONS AND AGENCIES CONTACTED:

California Department of Fish and Game

California Department of Conservation, Division of Oil and Gas

California Solid Waste Management Board

The Reclamation Board

California State Water Resources Control Board

Regional Water Quality Control Board

AFCD - Yolo/Solano Counties

Solano County Planning Department

U. S. Army Corps of Engineers

U. S. Fish and Wildlife Service

McCulloch Oil Corp.

Amerada

Aminoil, U.S.A., Inc.

O.P.R. - Clearinghouse - Attn.: Laurie Wright

ARCO

EXHIBIT "A"

LAND DESCRIPTION

W 40135

Three parcels of tide and submerged land lying within the bed of Lindsey Slough, situated in T5N, R2E, and T5N, R3E, MDM, County of Solano, State of California, and more particularly described as follows:

PARCEL 1

All the tide and submerged land lying within the bed of Lindsey Slough, situated in Sections 20, 21 and 22, T5N, R2E, MDM, being bounded on the west by the southerly extension of the easterly line of Hastings Cuo, and bounded on the east by the northerly extension of the west line of the east half of the west half of Section 27, T5N, R2E, MDM.

PARCEL 2

All the tide and submerged land lying within the bed of Lindsey Slough, situated in Sections 22, 23, 26 and 27, T5N, R2E, MDM, being bounded on the west by the northerly extension of the west line of the east half of the west half of Section 27, and bounded on the east by the northerly prolongation of the easterly line of the parcel of land described in the assignment of oil and gas lease from Humble Oil and Refining Company to Richfield Oil Corporation, recorded November 15, 1960, in Book 1052 of Official Records, page 599, Instrument No. 22390.

PARCEL 3

All the tide and submerged land lying within the bed of Lindsey Slough, situated in Sections 25 and 26, T5N, R2E, MDM and Section 30, T5N, R3E, MDM, being bounded on the west by the northerly prolongation of the easterly line of the parcel of land described in the assignment of oil and gas lease from Humble Oil and Refining Company to Richfield Oil Corporation, recorded November 15, 1960, in Book 1052 of Official Records, page 599, Instrument No. 22390, and bounded on the east by the southerly extension of the westerly line of Cache Slough.

Excepting therefrom any portion lying landward of the ordinary high water mark of Lindsey Slough.

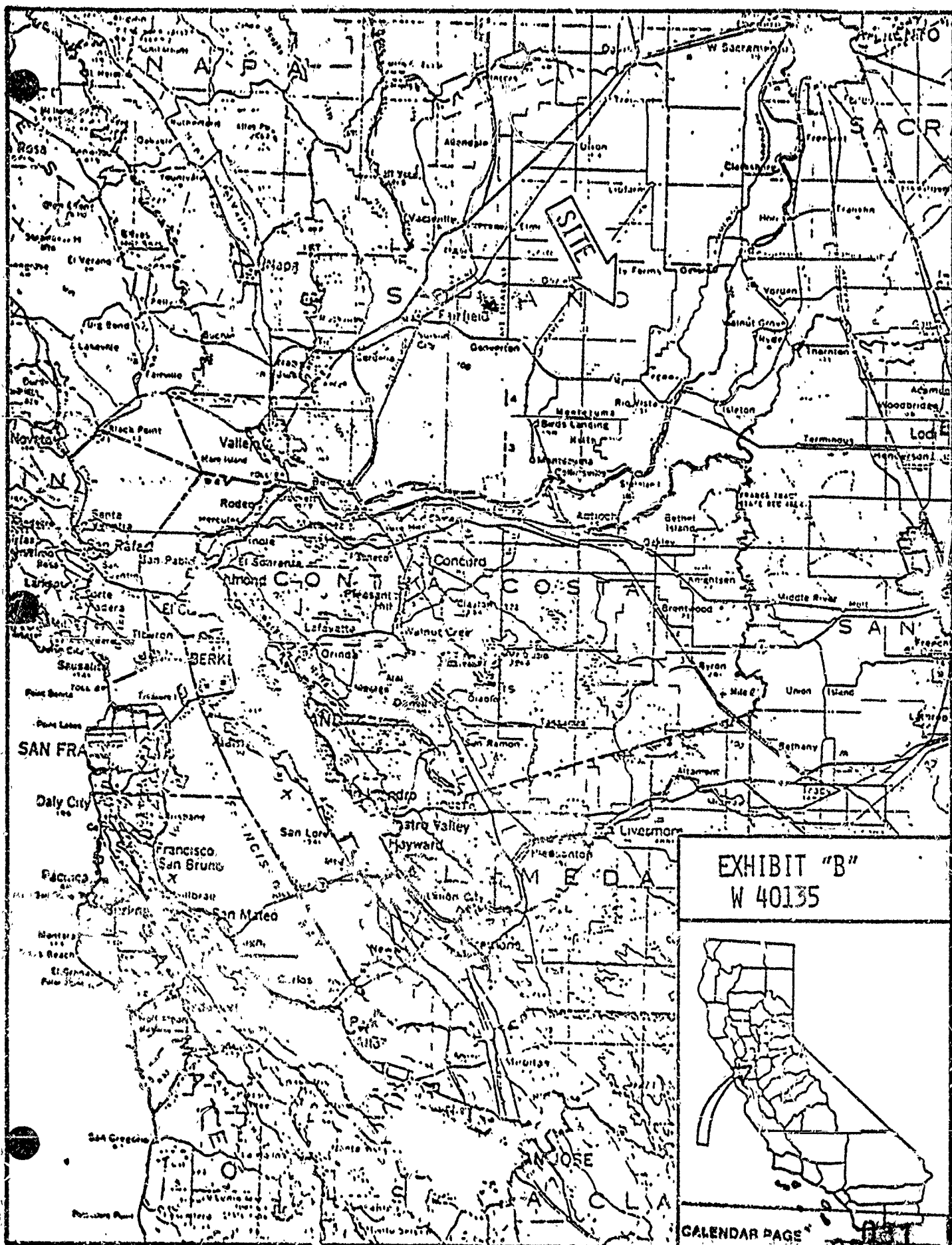


EXHIBIT "B"
W 40135



CALENDAR PAGE
MUTE PAGE

2706

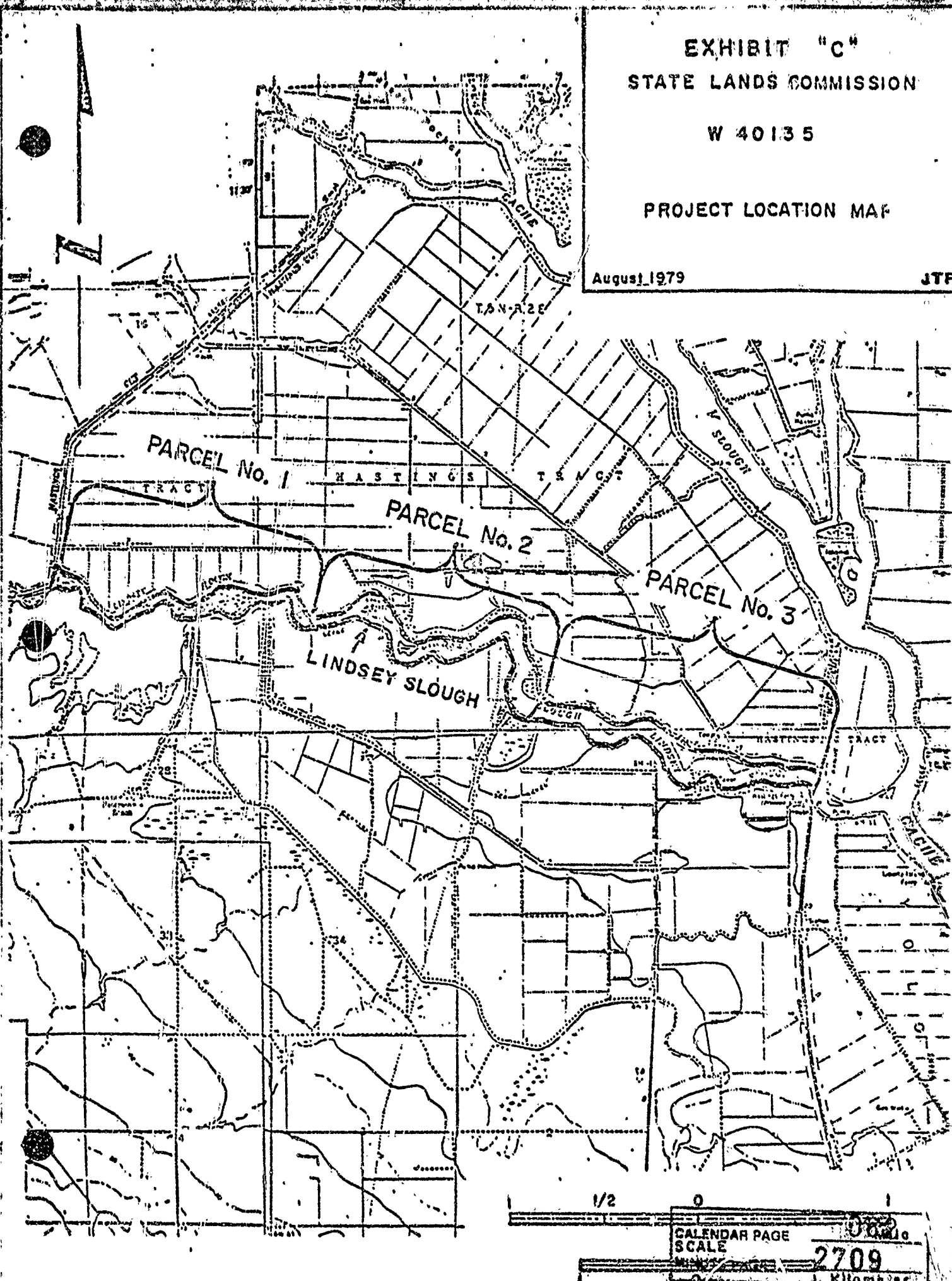
EXHIBIT "C"
STATE LANDS COMMISSION

W 40135

PROJECT LOCATION MAP

August 1979

JTF



CALENDAR PAGE
SCALE

2709

1 Kilometer

Do Not Write In		All Other Lines	
FEDERAL GRANT APPLICATION/AWARD NOTIFICATION			
STATE OF CALIFORNIA STATE CLEARINGHOUSE (916) 245-0612			
1. NAME OF APPLICANT		2. APPLICATION DATE	
State of California		10/12/77	
3. ADDRESS - Full		4. FEDERAL EMPLOYER NO.	
1000 OCEAN BLVD, Suite 200			
5. CITY, STATE, ZIP CODE		6. PROJECT FUND (Category of Fed Domestic Assistance)	
Long Beach, CA 90802			
7. TYPE OF ACTION		8. EXISTING FED GRANT	
a. New Action		b. Other State Change	
c. Amendment		c. Cancellation	
9. APPLICANT TYPE		10. FUNDS REQUESTED (For Changes Show Only Amt. of Inc. or Dec.)	
a. State		11. FEDERAL	
b. Interstate		12. STATE	
c. Sub-State Dist.		13. LOCAL	
d. County		14. OTHER	
e. City		15. TOTAL (11, 12, 13, 14)	
16. REQUESTED FUND START		17. EST. PROJECT START	
18. FUND DURATION		19. EST. PROJECT DURATION	
20. BRIEF TITLE OF APPLICANT'S PROJECT		21. DESCRIPTION OF APPLICANT'S PROJECT (Purpose)	
Oil & Gas Lease on a Portion of Lindsey Slough, Seannu County		To explore for and, if a discovery is made, produce natural gas from the state-owned tidelands and submerged lands within Lindsey Slough, possibly using slant drilling techniques.	
22. AREA OF PROJECT IMPACT (Indicate City, County, State, etc.)		23. CONGRESSIONAL DISTRICT	
Rio Vista, Solano, Calif		1st	
24. ENVIRONMENTAL ASSESSMENT REQUIRED		25. CLEARINGHOUSE(S) TO WHICH SUBMITTED	
By State/Federal Agency?		a. State b. Area Wide c. None	
26. NAME/TITLE OF CONTACT PERSON		27. TELEPHONE NO.	
Ted Fukushima		(916) 322-7211	
28. ENVIRONMENTAL DOCUMENT REVIEW REQUIRED		29. IF PROJECT IS PHYSICAL IN NATURE OR REQUIRES ENVIRONMENTAL DOCUMENT, LIST THE U.S. GEOLOGICAL SURVEY QUADRANGLE MAP(S) WHERE PROJECT IS LOCATED	
a. Draft EIR b. Final EIR c. Negative Declaration Attached (20 copies) d. None Attached - Document Will Be Forwarded On Approximately		Tozier Liberty Is. Rio Vista Birds Landing	
30. IF FEDERAL PROGRAM DOES NOT REQUIRE AN ENVIRONMENTAL DOCUMENT PROJECT EXEMPT UNDER STATE CATEGORICAL EXEMPTION, CLASS			
ITEMS 31-38 TO BE COMPLETED BY CLEARINGHOUSE			
31. CLEARINGHOUSE ID		32. ACTION BASED ON REVIEW OF	
33. ACTION TAKEN		34. STATE APPLICATION IDENTIFIER (SALI)	
35. CLEARINGHOUSE IMPACT CODE		36. STATE PLAN REQUIRED	
37. RECEIVING DATE AT CLEARINGHOUSE		38. SIGNATURE OF CH OFFICIAL	
39. FINAL CH ACTION DATE			
ITEMS 39-42 TO BE COMPLETED BY APPLICANT BEFORE SENDING APPLICATION TO FEDERAL AGENCY			
39. CERTIFICATION		40. NAME (Print or Type)	
41. DATE MAILED TO FEDERAL STATE AGENCY		42. NAME OF FEDERAL STATE AGENCY TO WHICH THIS APPLICATION SUBMITTED	
STATE LANDS COMMISSION			
ITEMS 43-54 TO BE COMPLETED BY FEDERAL OFFICE EVALUATING AND RECOMMENDING ACTION ON THE APPLICATION			
43. GRANT APPLICATION ID		44. GRANTOR AGENCY	
45. ORGANIZATIONAL UNIT		46. ADMINISTERING OFFICE	
47. ADDRESS - Street or P.O. Box		48. CITY	
49. STATE		50. ZIP CODE	
51. TELEPHONE NUMBER			
ITEMS 55-65 TO BE COMPLETED BY THE FEDERAL OFFICE APPROVING THE GRANT APPLICATION			
55. ACTION		56. FUNDS AVAILABLE	
57. ENDING DATE		58. FEDERAL GRANT ID	
59. FEDERAL FUND ACCOUNT NUMBER		60. FEDERAL AMOUNT IF Y	
61. STATE SHARE		62. LOCAL SHARE	
63. OTHER		64. TOTAL (60, 61, 62, 63)	
65. MULTIPLE PROGRAM DATA		66. MINUTE PAGE	

2710

DATE: 12/10/79NOTICE

A regular meeting of the State Lands Commission has been scheduled for _____, 1980, at _____ a.m. (p.m.), in Room _____ of _____

Among the items to be considered at this meeting will be an application from McCullough Oil and Gas Corp.
ADMINISTRATE A PORTION OF LANDS IN
SEGLAND COUNTY FOR A COMPETITIVE BID
SUBSURFACE OIL AND GAS LEASE

In accordance with Division 13 of the Public Resources Code, (☒) a negative declaration identified as EIR NO _____) (☐) an Environmental Impact Report identified as EIR _____ has been prepared) AND (☐) is attached for your information.) (☒) may be obtained from Ted T. Fukushima, 1807 - 13th Street, Sacramento, CA 95814.)

WILLIAM F. NORTHROP
 Executive Officer

CALENDAR PAGE	084
MINUTE PAGE	2711
Form 13-14 (9/78)	

mick