MINUTE ITEM
This Calendar Item No. 46
was approved as Minute Item
No. 45 by the State Lands
Commission by a vote of 5
to 2 at its 7/10/84
greeting.

CALENDAR ITEM

48

08/10/88 W 6005.4 PRC 7238 Livenick

S 5

APPROVAL OF A GEOPHYSICAL SURVEY PERMIT FOR STATE-OWNED TIDE AND SUBMERGED LANDS IN THE SAN JOAQUIN DELTA SAN JOAQUIN COUNTY

APPLICANT:

CGG American Services, Inc. Attn.: Mr. Jim Prossick

P. O. Box 488

Thornton, California 95686

PROPOSED AUTHORIZATION:

Approval of a Geophysical Survey Permit to conduct geophysical seismic studies on Van Sickle Island (two lines totalling 6.07 miles) and Grizzley Island (two lines totalling 15.5 miles) crossing private lands and proprietary lands and waterways in the Sacramento-San

Joaquin Delta area of Solano County.

TYPE OF LAND: The State lands subject to this permit are

those tide and submerged lands in the waterways crossed by the four seismic survey lines and State-owned proprietary lands on Grizzley

Island.

TERM:

The term of the Geophysical Survey Permit shall be from August 1, 1988 through October 31, 1989.

PROJECT:

CGG American Services, Inc. has proposed conducting a geophysical seismic survey in the Sacramento-San Joaquin Delta area of Solano. The survey will be performed in four lines totalling approximately 22 miles as shown in the accompanying map of Exhibit "A". The survey line will cross State-owned and privately-owned uplands and portions of State-owned waters. Approximately 1,170 four-inch diameter holes will be drilled on 100-foot centers to a depth of 50-100 feet.

## CALENDAR ITEM NO. 48 (CONT'D)

The holes may be loaded with a five-pound explosive charge and/or geophone instrumentation. The hole will be backfilled with bentonite to seal the hole. In sensitive wildlife habitat, no holes may be drilled and no explosives used; only a passive geophone will be placed on the ground surface.

CGG is coordinating this project with all the affected landowners, trustee agencies, such as the Department of Fish and Game and Reclamation Districts, and other permitting and responsible local agencies listed in Attachment D of the Negative Declaration, Exhibit "B".

Special operating conditions have been developed by the Reclamation Districts and the Department of Fish and Game to eliminate any hazard to the levees, wildlife and habitat crossed by the survey lines and are reflected in the survey as proposed. Special permits and monitoring of the operations by Department of Fish and Game (DFG) personnel will be required for sensitive areas as determined by DFG. The geophysical information to be acquired is for the use of the oil and gas industry and possibly may benefit the State as an aid in development of the State's resources from adjacent private lands.

**BOND:** 

Applicant will submit a faithful performance bond of, \$25,000 in favor of the State.

#### STATUTORY REFERENCES:

- A. P.R.C. 6826.
- B. 14 Cal. Adm. Code, Title II, Article 2.9, Section 152 et. seq.
- C. P.R.C. 21080.5 and CEQA Guidelines, Section 15250 et. seq.

AB 884:

11/01/88.

#### OTHER PERTINENT INFORMATION:

1. Pursuant to the Commission's delegation of authority and the State CEQA Guidelines (14 Cal. Adm. Code 15025), the staff has

### CALENDAR TITEM NO. 48 (CONT'D)

prepared a Negative Declaration EIR ND 439, State Clearinghouse #88041917. The Negative Declaration was prepared and circulated for public review pursuant to the provision of the CEQA. A copy of this environmental document is attached as Exhibit "B".

Based upon the initial study, the Negative Declaration, and the comments received in response thereto, there is no substantial evidence that the project will have a significant effect on the environment (14 Cal. Adm. Code 15074(b)).

2. This activity involves lands identified as processing significant environmental values pursuant to P.R.C. 6370 et. seq. Based upon the the staff's consultation with the Department of Fish and Game and through the CEQA review process, it is the staff's opinion that the project, as proposed, is consistent with the use classification.

Subsequent to circulation of the Negative Declaration for this proposed project, the Applicant modified the project description. The modification involves the omission of one line and a minor alteration in the alignment of an other. The types of potential impacts and mitigations presented in the Initial Study/Negative Declaration will not change as a result of this modification; there will, however, be a decreased potential for such impacts due to the diminished scope of the proposal. agencies contacted during the Initial Study and Negative Declaration circulations were again contacted regarding this modification proposal, and each believed that the circulated documents adequately addressed the potential impacts of the amended project.

**EXHIBITS:** 

- A. Survey Location Maps.
- B. Negative Declaration.

-3-

CALENDAR PAGE
MINUTE PAGE

2446

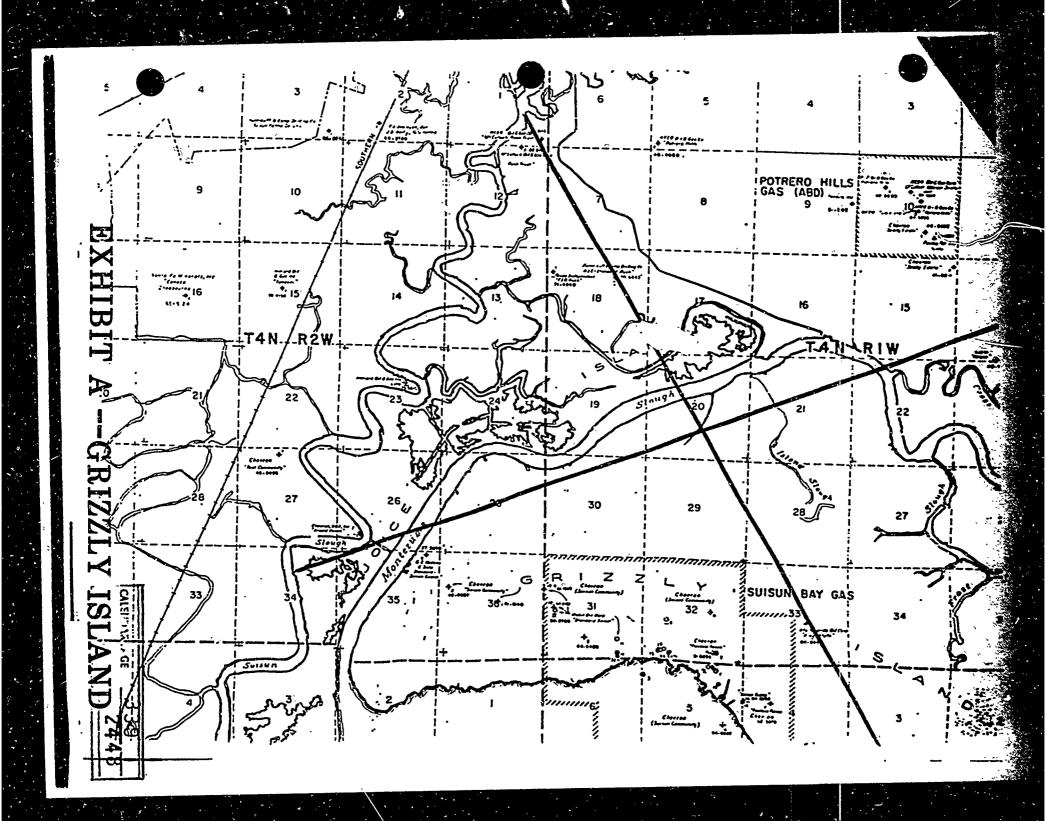
# CALENDAR ITEM NO. 48 (CONT'D)

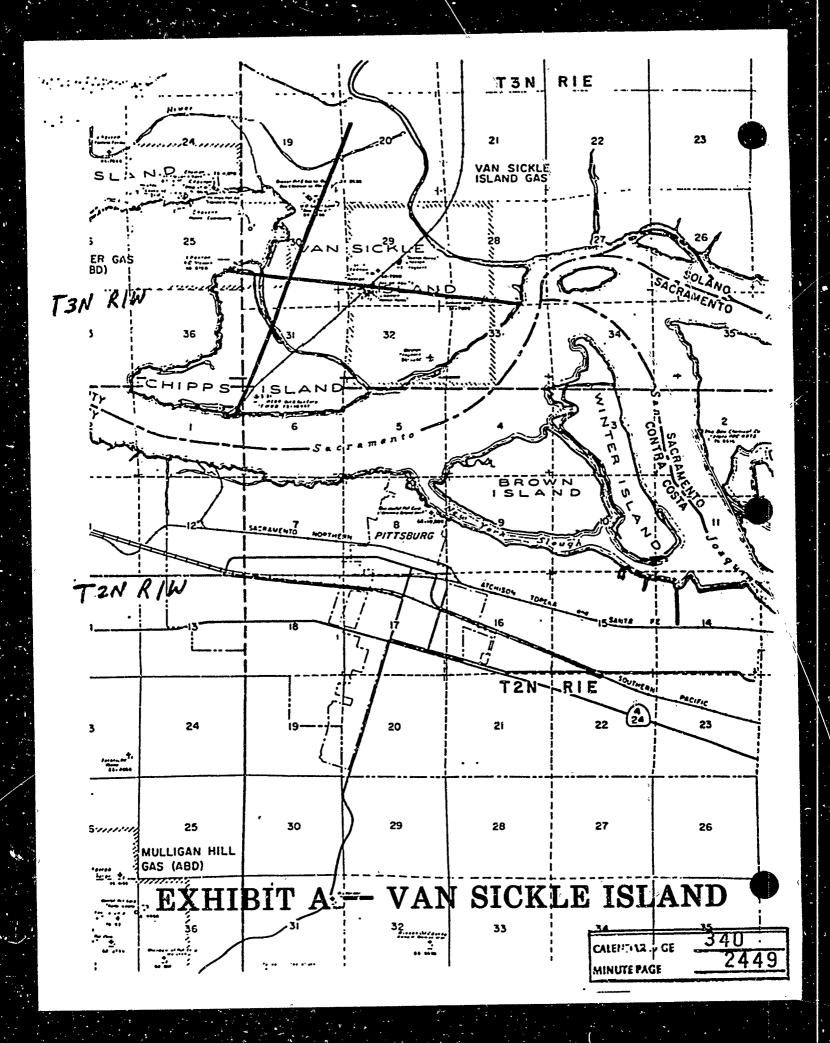
# IT IS RECOMMENDED THAT THE COMMISSION:

- 1. CERTIFY THAT A NEGATIVE DECLARATION EIR NO 432 STATE CLEARINGHOUSE #88041917 WAS PREPARED FOR THIS FROJECT PURSUANT TO THE PROVISIONS OF THE CEQA AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
- 2. DETERMINE THAT THE PROJECT, AS APPROVED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
- 3. FIND THAT THIS ACTIVITY IS CONSISTENT WITH THE USE CLASSIFICATION DESIGNATED FOR THE LAND PURSUANT TO P.R.C. 6383 ET. SEQ.
- 4. AUTHORIZE THE ISSUANCE TO CGG AMERICAN SYSTEM, INC. OF A PERMIT TO CONDUCT GEOPHYSICAL SEISMIC SURVEYS ON STATE-OWNED PROPRIETARY AND TIDE AND SUBMERGED LANDS IN THE SACRAMENTO-SAN JOAQUIN DELTA AREA OF SOLANO COUNTY FOR THE PERIOD OF AUGUST 1, 1988 THROUGH OCTOBER 31, 1989.

<u>-4-</u>

| THE PART PACE | 338  |
|---------------|------|
| CALENDAR PAGE | 2447 |
| MINUTE PAGE   |      |





## STATE LANDS COMMISSION

LEO T. McCARTHY, Lieutenant Governor GRAY DAVIS, Controller JESSE R. HUFF, Director of Finance



EXECUTIVE OFFICE
1807 - 13th Street
Sacramento, California 95314
CLAIRE T. DEDRICK
Executive Officer

April 15, 1988 File Ref: W 6005.4

# NOTICE OF INTENT TO ADOPT NEGATIVE DECLARATION (Section 21092 PRC)

An application for the following described project is currently being processed by the staff of the State Lands Commission:

Project Title:

CGG Van Sickle Island and Grizzly Island

Seismic Survey

Project Proponent:

CGG American Services, Inc.

Project Location:

Van Sickle and Chipps Islands; Grizzly Island, Sacramento-San Joaquin Delta,

Solano County.

Project Description: A

seismic survey is proposed for potential natural gas deposits on two lines in the area of Van Sickle Island (totaling approximately 6.07 miles), and on two lines in the area of Grizzly (totaling approximately Island miles). A total of 1,170 shot holes will be drilled (4-inch diameter, 50-100 foot depth) at 100-foot intervals. Most holes will be loaded with a geophone and a 5-15 pound charge, and some will house only a The holes will be filled with geophone. immediately after bentonite charges are detonated, the When the seismic waves the οf time travel will the explosion generated by recorded.

The applicant shall comply with the requirements of all other permitting agencies with respect to this proposed project.

(CONTINUED)

CALCULATION 341
MINUTEPAGE 2450

APRIL 15, 1988

Contact Person:

Dan Cohen

Telephone: (916) 324-8497

A Negative Declaration identified as EIR ND 439, State has been prepared pursuant to the Clearinghouse No. requirements of the California Environmental Quality Act.

The above described document will be considered for adoption at a regular meeting of the STATE LANDS COMMISSION scheduled for May, 1988 (specific date unknown at this time), a.m., State Capitol, Room 447, Sacramento, Anyone interested in this matter is invited to a.m., State 10:00 comment on the document by written response prior to the meeting or by personal appearance at the meeting. Persons wishing to appear at the meeting should call (916) 322-4107 so that time can be allotted for such appearance. (NOTE: Time and place of Commission meeting is subject to change.)

> CLAIRE T. DEDRICK Executive Officer

> > CALENTAL FIGE MINUTE PAGE

STATE LANDS COMMISSION 1807 13TH STREET SACRAMENTO, CALIFORNIA 95814



#### PROPOSED NEGATIVE DECLARATION

**EIR ND 439** 

File Ref.: W 6005.4

SCH#:

Project Title:

CGG Van Sickle Island and Grizzly Island Seismic Survey

Project Proponent:

CGG American Services. Inc.

Project Location:

(1) Van Sickle and Chipps Island; (2) Grizzly Island,

Sacramento - San Joaquin Delta, Solano County.

#### Project Description:

A seismic survey is proposed for potential natural gas deposits on two lines in the area of Van Sickle Island (totalling approximately 6.07 miles), and on two lines in the area of Grizzly Island (totalling approximately 15.5 miles). A total of 1,170 shot holes will be drilled along the lines at 100-foot intervals. The shot holes will be loaded with a geophone and a 5-15 pound charge (some holes will be loaded with a geophone only). The holes will be filled with bentonite immediately after drilling to prevent comingling of aquifers.

: Contact Person:

Dan Cohen

Telephone: (916) 324-8497

This document is prepared pursuant to the requirements of the Calafornia Environmental Quality Act (Section 21000 et seq., Public Resources Code), the State CEQA Guidelines (Section 15000 et seq., Title 14, California Administrative Code), and the State Lands Commission regulations (Section 2901 et seq., Title 2, California Administrative Code).

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

/X/ the project will not have a significant effect on the environment.

mitigation measures included in the project will avoid potentially significant effects.

CAL.: - 12. FÖFm 13.17 32/88)
MINUTE PAGE 2452

STATE LANDS COMMISSION 1807 13TH STREET SACRAMENTO, CALIFORNIA 95814



File Ref.: W 6005

Date: 4/15/88

NOTICE OF PUBLIC REVIEW OF A PROPOSED NEGATIVE DECLARATION (Section 15073 CAC)

A Proposed Negative Declaration has been prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et seq., Public Resources Code), the State CEQA Guidelines (Section 15000, et seq., Title 14, California Administrative Code), and the State Lands Commission regulations (Section 2901 et seq., Title 2, California Administrative Code), for a project currently being processed by the staff of the State Lands Commission.

The document is attached for your review. Comments should be addressed to the State Lands Commission office shown above, with attention to the undersigned. All comments must be received by May 10, 1988.

Should you have any questions or need additional information, please call (916) 324-8497.

**ATTACHMENT** 

Dan Cohen

Environmental Coordinator

CALLY . LA . / CE MINUTZ FAGE

| Date Filed:_ | 4 | 715   | ,88 |
|--------------|---|-------|-----|
| File Ref.:_  |   | 6005. | 4   |

345

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ENVIRONMENTAL IMPACT ASSESSMENT FORM — Part I (To be completed by applicant) FORM 69.3(11/82)

| A. | GENERAL. | INFORMATION |
|----|----------|-------------|
|    |          |             |

| •  | GEN   | ERAL INFORMATION   |
|----|-------|--|
| 1. | Name  | e, address, and telephone number:  |
|    | a.    | Applicant b. Contact; rson if other than applicant:  |
|    |       | CGG American Services, Inc.  |
|    |       | P.O. Box 488   |
|    |       | Thornton, CA 95686   |
|    |       | ATTN: Jim Prossick (209 ) 794-2382   |
| 2. | a.    | Project location: (Please reference to nearest town or community and include county)   |
|    | ٠.    | Project location: (Please reference to nearest town or community and include county) Secs. 25, 26, 34, 35, T. 4N, R. 2W, & Grizzly Island: Secs. 14, 15, 19, 20-22, 30, T. 4N, R. 1W |
|    |       | Sec. 1, T.2N, R.1W; Sec. 25, T.3N, R.1W;<br>Van Sickle Isd: Secs. 19,20,28-31, T.3N, R.1E; Sec. 6, T.2N, R.1E.   |
|    |       | ALL SAC-SAN JOAQUIN DELTA, MDB&M, SOLANO COUNTY  |
|    |       |  |
|    | ь.    | Assessor's parcel number:  |
|    |       | ting zoning of project site: Agricultural, wetlands  |
| 4. | Exist | ting land use of project site: Agriculture, marsh and wetlands, recreational   |
| 5. | Prop  | osed use of site: Proposed - 4 seismic survey lines (total approximately   |
|    |       | 2 miles). Total of 1,170 shot holes drilled at 100' intervals,   |
| ;  |       | oaded with geophone and explosive charge. Holes to be sealed with  |
| 6. | D:be  | entonite.  r permits required: DFG streambed alteration. Corps permit, Solano County   |
|    |       | plosives permit. Solano County Seismic Survey permit. U.S. Coast   |
|    |       | ard permit. BCDC. Rec. Dist. #1607. Suisun Resource Conserv. Dist.   |
|    | 2)    | · · · · · · · · · · · · · · · · · · ·  |
| •  | PKO.  | PECT_DESCRIPTION   |
| 1. | For t | wilding construction projects, complete "ATTACHMENT A".  |

2. For non-building construction projects: Describe fully, the proposed activity, its purpose and intended use, e.g. for proposed mineral prospecting permits, include the number of test holes, size of holes, amount of material to be excavated, maximum

surface area of disturbance, hole locations, depth of holes, etc. Attach plans or other drawings as necessary.

|       |  |  | ·  | •                 |
|-------|--|--|--|-------------------|
| c. I  | ENVIRONMENTAL SETTING  | -9.18/ara -8                             | anim-'                                     | łs.               |
|       | Describe the project site as it exists before the project, including information on topography, soil st and any cultural, historical, or scenic aspects. Describe any existing structures on the site, and the use and any cultural, historical, or scenic aspects.  | historical, or scenic                    | ic aspec                                   | cts.              |
| 2.    | Describe the surrounding properties, including information on plants and animals and any cultural, to indicate the type of land use (residential, commercial, etc.), intensity of land use (one-family, apartriment stores, etc.), and scale of development (height, frontage, set-back, rear yard, etc.).  This portion of the Delta encountries and animals and any cultural, the indicate the type of land use (residential, commercial, etc.), intensity of land use (one-family, apartriment stores, etc.), and scale of development (height, frontage, set-back, rear yard, etc.).   | mnasses We                               | tlan                                       |                   |
| D.    | This portion of the Delta encountries areas, agricultural areas, a | reas & roll                              | ing  |                   |
|       | Answer the following questions by placing a check in the appropriate box. Discuss all items  | cnecked "yes" of                         | eyl  | . <b>.</b> •      |
|       | (Attach additional/sheets as necessary)  | •  | RAYBE                                      |                   |
| , Wil | ill the project involve:   | 🗆  |  | [X]               |
| 1.    |  | • •                                      |  | بعادا             |
| 2.    | a change in scenic views or vistas from existing residential areas or public lands or roads?   |  |  | IXI<br>⊠          |
| 3.    | a phone in pattern, scale, or character of the general area of project?  |  |  | 区                 |
| 4.    | a classificant effect on plant or animal life?   | <del></del>                              |  | X                 |
| 5.    |  | ا ٠٠٠٠٠٠٠                                |  | X                 |
| 6.    | a change in dust, ash, smoke, fumes, or odors in the vicinity?   |  | X  |                   |
|       | 7. a change in ocean, bay, lake, stream, or ground water quality or quantity, or alteration  | See Initia                               | 11 S                                       | eady              |
| 8     |  | See Initia                               | 11 S                                       | tridy             |
| ٤     | 9. construction on filled land or on slope of 10 percent or more?  |  | Γ̈́  |                   |
| 10    | use or disposal of potentially hazardous materials, such as toxic or radioactive   | ind                                      |  |                   |
| 13    | 1. a change in demand for municipal services (police, fire, water, sewage, etc.)?  |  | <u>П</u>                                   |                   |
| 1:    | telegricity oil natural das. etc.)?  | ۔ ت                                      | <u>                                   </u> | <br>  [X]         |
| 1:    | la   | , , , , , , , , ,                        |  | •                 |
|       | - communication  | •  | for-                                       | lin-              |
| •     | I hereby certify that the statements furnished above and in the attached exhibits preser quired for this initial evaluation to the best of my ability, and that the facts, statements, and and correct to the best of my knowledge and belief.   | int the data and it<br>information presi | norma<br>ented a                           | uon fi<br>ire tru |

Date: April 15, 1988

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AUTEPAGE 2-4-55

(for project applicant)

# ENVIRONMENTAL IMPACT ASSESSMENT CHECKLIST - PART II

I. BACKGROUND INFORMATION A. Applicant: CGG American Services, Inc. P.O. Box 488 Thornton, CA 95686 ATTN: Jim Prossick B. Checklist Date: 4 / 08 / 88 C. Contact Person: Dan Cohen Telephone: (916 ) 324-8497 D. Purpose: \_ To perform a seismic survey for Chevron, U.S.A. E. Location: Please See Supplement A F. Description: Please See Supplement B us -- Prince is the call receive the receivement for the first or the American Structure of the Contract of th G. Permits Obtained: San Francisco Bay Conservation and Development Commission, U.S. Coast Guard, U.S. Army Corps of Engineers, Solano County Fire Warden Explosives Permit. Solano County Public Works Department Seismic Survey Permit. H. Permit/Compliance Required: California Department of Fish and Game Suisun Resource Conservation District, Solano County Dept. of Environmental Management, Reclamation District No. 1607. I. Agencies Contacted: U.S. Army Corps of Engineers, California Department of Fish and Game. II. ENVIRONMENTAL IMPACTS. (Explain all "yes" and "maybe" answers) Yes Maybe N A. Earth, Will the proposal result in: 4. The destruction, covering, or modification of any unique geologic or physical features? . . . . . . . . . . . . . . . . 5. Any increase in wind or water crossion of soils, either on or off the site?..... 6. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet, or lake? . . . . . . . . . . 7. Exposure of all people or property to geologic hazards such as earthquakes, land lides, mudslides, ground 4 failure, or similar hazards?.... MINUTE PAGE

File Ref .: W 6005.4

| в. | .1/r. Will the proposal result in  |
|----|--|
|    | 1. Substantial air emmissions or deterioration of ambient air quality.  2. The creation of objectionable oxfors?   |
|    | 2. The creation of objectionable oxfors?   |
|    | 3. Alteration of air movement, moisture or temperature,  |
| C. | Water, Will the proposal result  |
|    | 1. Changes in the currents, or the course or direction of water movements.   |
|    | 2. Changes in absorption rates, drainage patterns, or the rate and another.  3. Alterations to the course or flow of flood waters?   |
|    | 3. Alterations to the course or flow of flood waters   |
|    | 4. Change in the amount of surface water in any water body?  5. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to   |
|    | · temperature, dissolved   |
|    | 6. Alteration of the direct on or rate of flow of ground waters?  7. Change in the quantity of ground waters, either through direct additions or withdrawals, or through inter-  |
|    | ception of an addition of the additional state of the complete |
|    | 8. Substantial reduction in the amount of water otherwise available for public water specific water.  9. Exposure of people or property to water-related hazards such as flooding or tidal waves?  |
|    | 9. Exposure of people or property to water-related hazards such as moothing and springs?   |
|    | 10. Significant changes in the temperature, flow or chemical control   |
|    | and such the proposal result in:   |
|    | 1. Change in the diversity of species, or number of any species of plants?   |
|    | of the numbers of any unique, rare or endangle to the  |
|    | 2. Reduction of the home.  3. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing particular species?  4. Reduction in acreage of any agricultural crop?   |
|    | 4. Reduction in acreage of any agricultural crops  |
|    | •  |
|    | 1. Change in the diversity of species, or numbers of any species o |
|    | a Reduction of the numbers of any unique, rate or endangered specific and price of movement of   |
|    | 2. Reduction of the numbers of any unique, rare or endangered species of animals animals?  3. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?  4. Deterioration to existing fish or wildlife habitat?   |
|    | 4. Deterioration to existing fish or wildlife napitate   |
|    | E. Naise. Will the proposal result in:   |
|    | F. Noise. Will the proposal result in:  1. Increase in existing noise levels?  |
|    | 2 Exposure of people to severe noise levels?   |
|    | G. Light and Glure. Will the proposal result in:   |
|    | 1 The production of new light or glare?  |
|    | H. Land Use. Will the proposal result in:  1. A substantial alteration of the present or planned land use of an area?  |
|    | 1. A substantial alteration of the present or planned land use of all diseases and all the substantial alteration of the present or planned land use of all diseases.  |
|    | Natural Resources. Will the proposal result in:  |
|    | 1. Natural Resources. Will the proposal result in:  1. Increase in the rate of use of any natural resources?   |
|    | 1. Increase in the rate of use of any natural resources? 2. Substitutial depletion of any nonrenewable resources?  |
|    |  |

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|              | 2457 |
| MINUTE PAGE  |      |

|      | Risk of Upver. Does the proposal result in:  | Yes Maybe No |
|------|--|--------------|
| J, 1 |  |              |
|      | (, A risk of an explosion or the release of hazardous substances (including, but not finites to expense of hazardous substances (including) for the event of an accident or upset conditions?  |              |
|      |  |              |
| к.   | Population. Will the proposal result in:   |              |
|      | Population. Will the proposal resolution.  1. The alteration, distribution, density, or growth fate of the human population of the area?   |              |
| L.   | Housing. Will the proposal result in:  | . 🔲 🔲 🗵      |
|      | 1. Affecting existing housing, or create a demand for additional housing?  |              |
| M.   | Transportation/Circulation. Will the proposal result in:   | . 🗌 🗆 🖾      |
|      | 1. Generation of substantial additional vehicular movement?  | . 🗌 🗎 🗵      |
|      | Generation of substantial additional semicological se      |              |
|      | 2. Affecting existing parking facilities, or cleared or state of people and/or goods?  |              |
|      | 3. Substantial impact upon existing transported by the substantial im  |              |
|      | 4. Alterations to present patterns of discourse.  5. Alterations to waterborne, rail, or air traffic?  |              |
|      | 6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians?  | al           |
| N.   | 6. Increase in traffic nazards to motel termost.  Public Services. Will the proposal have an effect upon, or result in a need for new or altered government services in any of the following areas:  | 🗆 🗆 🕱        |
|      | services in any of the following areas:  1. Fire protection?   |              |
|      |  |              |
|      |  |              |
|      | actual familities?   |              |
|      | the facilities including roads?  |              |
|      | Maintenance of public facilities, including recent to the services?  |              |
| O    | and the angular result in  |              |
|      | at find or anarm?  |              |
|      | to the disconnection sources of energy, or require the daystophiletto mentality  |              |
| P    | and the second of the second o |              |
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|      |  | *            |
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|      |  |              |
|      | Storm water drainager  | یے سے ہے۔    |
|      | and possible in t  |              |
|      | and a potential realth hazard (excluding mental nealth):   | ===          |
|      | Creation of any health hazard or potential health hazards?   |              |
|      | t  |              |
| h    | 1. The obstruction of any scenic vista or view open to the public, or will the proposal result in the creation an aesthetically offensive site open to public view?  1. The obstruction of any scenic vista or view open to the public, or will the proposal result in the creation and aesthetically offensive site open to public view?  |              |
| 7    | and the proposal result in:  |              |
|      | 1. An impact upon the quality or quantity of existing recreational opportunities?  | CE           |
|      | 1. An impact upon the quarty of the  | 7430         |
|      | MINOTETAGE   |              |

| •  | Yes Maybe No                |
|--|-----------------------------|
| T. Cultural Resources.  1. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archeological states of the destruction of a prehistoric or historic of historic by the states of the destruction of a prehistoric or historic by the states of the destruction of a prehistoric or historic by the states of the destruction of a prehistoric or historic by the states of the destruction of a prehistoric or historic by the states of the destruction of a prehistoric or historic archeological prehistoric or historic by the states of the destruction of a prehistoric or historic by the states of the destruction of a prehistoric or historic archeological prehistoric or historic by the states of the destruction of the de | cal site?. 🔲 🖺 🕱            |
| 1. Will the proposal result in the alteration of or the destruction of a premistance of the destruction of a premistance of this toric be 2. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic be   | building, 🔲 🗀 🚞             |
| structure, or object? ethnic   | c cultural c                |
| 3. Does the proposal have the potential to cause a physical change which would arrect unique stands values?  |                             |
| 4. Will the proposal restrict existing religious or sacred uses within the potential impact areas 1.00 per   |                             |
| U. Mandatory Findings of Significance.   | f a fish or                 |
| <ol> <li>Mandatory Findings of Significance.</li> <li>Does the project have the potential to degrade the quality of the environment, reduce the habitat of wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to exhibit the species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to exiling the species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to exhibit the range of a rare or endangered a plant or animal community, reduce the major periods of California history or prehistory?</li> </ol>   | ronmental — — —             |
| 2. Does the project have the potential to achieve short-term, to the disadvantage of long-term, short-   | ·······                     |
| 3. Does the project have impacts which are individually limited, but cumulatively considerable.  | en beinot.                  |
| 4. Does the project have environmental effects which will cause substantial adverse effects of the project have environmental effects which will cause substantial adverse effects of the project have environmental effects which will cause substantial adverse effects of the project have environmental effects which will cause substantial adverse effects of the project have environmental effects which will cause substantial adverse effects of the project have environmental effects which will cause substantial adverse effects.  | nan beings.                 |
| either directly or indirectly?   |                             |
| III. Diagonicie de sustanticum   |                             |
|  | • • •                       |
| See Supplement C.  | -<br>-                      |
|  | •                           |
| •  |                             |
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|  |                             |
|  |                             |
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|  | ••                          |
|  | •                           |
| •  | •                           |
|  | •                           |
|  |                             |
| •  |                             |
| IV. PRELIMINARY DETERMINATION  |                             |
|  | GATIVE DECLARATION wil      |
| I find the proposed project COULD NOT have a significant effect on the environment, and a tree be prepared.  | ··· ha a significant affort |
| be prepared.  I find that although the proposed project could have a significant effect on the environment, there in this case because the mitigation measures described on an attached sheet have been added DECLARATION will be prepared.  |                             |
| DECLARATION will be prepared.  I find the proposed project MAY have a significant effect on the environment, and an ENVIRO   | NMENTAL IMPACT REPOR        |
| I find the proposed project MAY have a significant is requied.   | . •                         |
| I dint ite   | Dan_Cohen                   |
| Date: 04 / .15. L88 For the State Lands Commis   | sion 3 F D                  |
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#### SUPPLEMENT A

#### Project Location:

Both the Grizzly Island and the Van Sickle projects are located in the Sacramento-San Joaquin Delta, Solano County. Specifically -

Grizzly Island:

Sections 25, 26, 34, 35, T.4N, R.2W and Sections 14, 15, 19, 20-22, 30, T.4N, R.1W, MDB&M, Solano County.

Van Sickle Island: Section 1, T.2N, R.lW, Section 25, T.3N, R.lW, Sections 19, 20, 28-31, T.3N, R.lE, and Section 6, T.2N, R.lE,

MDB&M, Solano County.

(Please see enclosed location maps)

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## SUPPLEMENT B

## SUPPLEMENT !

## Project Description:

A seismic survey is proposed for potential natural gas deposits on two lines in the area of Van Sickle Island (totaling approximately 6.07 miles), and on two lines in the area of Grizzley Island (totaling approximately 15.5 miles). A area of Grizzley Island (totaling approximately 15.5 miles). A total of 1,170 shot holes will be drilled (4-inch diameter, 50-100 foot depth) at 100-foot intermals. Most holes will be loaded with a geophone and a 5-15 pound charge, and some will house only a geophone. The holes will be filled with bentonite immediately after drilling. When the charges are detonated, the travel time of the seismic waves generated by the explosion will be recorded.

The applicant shall comply with the requirements of all other permitting agencies with respect to this proposed project.

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#### SUPPLEMENT C SUPPLEMENT

- A.2. Holes will be drilled approximately 4 inches in diameter, and 50-100 feet deep at 100-foot intervals. Shot holes will be backfilled and capped with excavated material.
- C.5. Release of drilling spoils into the water column at the drill sites could potentially affect water quality. However: the total amount of released spoils will be approximately 2,000 cubic yards; the spoils will be released in incremental amounts of less than three-fourths of a cubic yard in 1,170 widely scattered locations in Suisun and Grizzly Bays, and; most of the spoils will be released in areas with relatively good water circulation. The release of spoils, therefore, should not significantly affect water quality.
- E.1. To minimize adverse effects on migratory fish, no work will be performed during December and January. To reduce fish mortality, only the minimum charge size necessary shall be used. No blasting will be performed near large accumulations of fish.
- F.1. Noise will occur from the shot-hole explosive charges. The impact, however, will be short-term (10-14 days), and at sites away from densely populated areas.
- J.1. When explosives are used there is always the risk of injury or damage caused by an accidental detonation. However, every reasonable safeguard will be employed, and all restrictions set forth by the Solano County Fire Warden will be strictly followed.

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