

MINUTE ITEM

This Calendar item No. 31  
was approved as Minute Item  
No. 31 by the State Lands  
Commission by a vote of 2  
to 0 at its 3-2-88  
meeting.

CALENDAR ITEM

A 4, 10

31

03/02/88

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W 6005  
Livenick

PRC 7174

APPROVAL OF A GEOPHYSICAL SURVEY PERMIT FOR STATE-OWNED  
TIDE AND SUBMERGED LANDS IN THE SACRAMENTO DELTA  
SACRAMENTO, CONTRA COSTA AND SOLANO COUNTIES

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 along one  
line 7.6 miles in length crossing private  
uplands and State-owned waterways in the  
Sacramento Delta Area of Solano, Contra Costa,  
and Sacramento counties.

TYPE OF LAND: The State lands subject to this permit are  
those tide and submerged lands in the waterways  
crossed by the one seismic survey line. The  
major waterways include Dutch Slough and  
Horseshoe Bend.

TERM: The term of the Geophysical Survey Permit shall  
be from March 1, 1988 through May 31, 1989.

PROJECT: CGG American Services, Inc. has proposed  
conducting a geophysical seismic survey in the  
Sacramento Delta Area of Solano, Contra Costa,  
and Sacramento counties. The survey will be  
performed on one line approximately 7.6 miles  
as shown in the accompanying map of  
Exhibit "A". The survey line will cross  
privately owned uplands and portions of  
State-owned waters. Approximately 250 four-inch  
diameter holes will be drilled on 165-foot  
centers to a depth of 50-100 feet. The holes

CALENDAR PAGE	113
MINUTE PAGE	625

CALENDAR ITEM NO. 31 (CONT'D)

may be loaded with a five-pound explosive charge and/or geophone instrumentation. The hole will be backfilled with bentonite to seal the hole.

CGG is coordinating this project with all the affected land owners, 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 line 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 15250 et. seq.
- C. P.R.C. 21080.5 and CEQA Guidelines, Section 15250 et. seq.

**AB 884:** 06/01/88.

**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 prepared a Negative Declaration EIR ND 431, State Clearinghouse #88010506. The Negative Declaration was prepared and

CALENDAR ITEM NO. 31 (CONT'D)

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 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.

EXHIBITS:

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

IT IS RECOMMENDED THAT THE COMMISSION:

1. CERTIFY THAT A NEGATIVE DECLARATION EIR ND 431 STATE CLEARINGHOUSE #88010506, WAS PREPARED FOR THIS PROJECT 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 PROPOSED, 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 A GEOPHYSICAL SEISMIC SURVEYS ON STATE-OWNED TIDE AND SUBMERGED LANDS IN THE SACRAMENTO DELTA AREA OF SACRAMENTO, CONTRA COSTA AND SOLANO COUNTIES FOR THE PERIOD OF MARCH 1, 1988 THROUGH MAY 31, 1989.

CALENDAR PAGE	115
MINUTE PAGE	627



STATE OF CALIFORNIA

## STATE LANDS COMMISSION

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



GEORGE DEUKMEJIAN, Governor

EXECUTIVE OFFICE  
 1807 - 13th Street  
 Sacramento, California 95814

CLAIRE T. DEDRICK  
 Executive Officer

December 30, 1987  
 File Ref: W 6005.8

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 Seismic Survey - Sherman Island  
 Project Proponent: CGG American Services, Inc.  
 Project Location: Sacramento Delta (Decker Island, Sherman Island), Solano, Sacramento and Contra Costa Counties  
 Project Description: CGG American Services, Inc. proposes a geophysical survey consisting of one seismic line, approximately 7.6 miles in length. The mode of data collection will be a down hole phonyx system through drilled holes at 165 foot intervals along the line (250 ± collection points). Each hole will be drilled to a depth of 50'-100', and a 5 lb. charge and phonyx phone will be placed at the bottom of each hole.

Contact Person: Dan Cohen Telephone: (916) 324-8497

A Negative Declaration identified as EIR ND 431 has been prepared pursuant to the 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 February 18, 1988, at 10:00 a.m., State Capitol, Room 447, Sacramento, California. Anyone interested in this matter is invited to 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.

CLAIRE T. DEDRICK  
 Executive Officer

CALENDAR PAGE	117
MINUTE PAGE	639

STATE OF CALIFORNIA  
STATE LANDS COMMISSION

EXECUTIVE OFFICE  
1807 - 15th Street  
Sacramento, California 95811

Date: December 30, 1987

File Ref.: W 6005.8

SCH No.:

TO: ALL INTERESTED AGENCIES/PARTIES

SUBJECT: Review of Negative Declaration Pursuant to Section 15073 of the State CEQA Guidelines (14 Cal. Adm. Code)

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

Project Title: CGG Seismic Survey - Sherman Island  
Project Proponent: CGG American Services, Inc.  
Project Location: Sacramento Delta (Decker Island, Sherman Island), Solano, Sacramento and Contra Costa Counties

Project Description: CGG American Services, Inc. proposes a geophysical survey consisting of one seismic line, approximately 7.6 miles in length. The mode of data collection will be a down hole phonyx system through drilled holes at 165-foot intervals along the line (250+ collection points). Each hole will be drilled to a depth of 50'-100', and a 5 lb. charge and phonyx phone will be placed at the bottom of each hole.

A Negative Declaration has been prepared for the project pursuant to the requirements of Section 15070 of the State CEQA Guidelines and is attached for your review. Your comments are requested by February 2, 1988. Please address your comments to the State Lands Commission office shown above, with attention to the undersigned. Should you have any questions, you may call me at (916)324-8497. Your cooperation in this matter is greatly appreciated.

ATTACHMENT

  
Dan Cohen, Env. Coordinator  
Division of Research  
and Planning

CALENDAR PAGE	118
MINUTE PAGE	640

STATE LANDS COMMISSION  
1807 13TH STREET  
SACRAMENTO, CALIFORNIA 95814

PROPOSED NEGATIVE DECLARATION

EIR ND 431

File Ref.: W 6005.8

SCH#:

Project Title: CGG Seismic Survey - Sherman Island  
Project Proponent: CGG American Services, Inc.  
Project Location: Sacramento Delta (Decker Island, Sherman Island),  
Solano, Sacramento and Contra Costa Counties

Project Description: CGG American Services, Inc. proposes a geophysical survey consisting of one seismic line, approximately 7.6 miles in length. The mode of data collection will be a down hole phonyx system through drilled holes at 165-foot intervals along the line (250+ collection points). Each hole will be drilled to a depth of 50'-100', and a 5 lb. charge and phonyx phone will be placed at the bottom of each hole.

Contact Person: Dan Cohen

Telephone: 916/324-8497

This document is 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 regulation (Section 2901 et seq., Title 2, California Administrative Code).

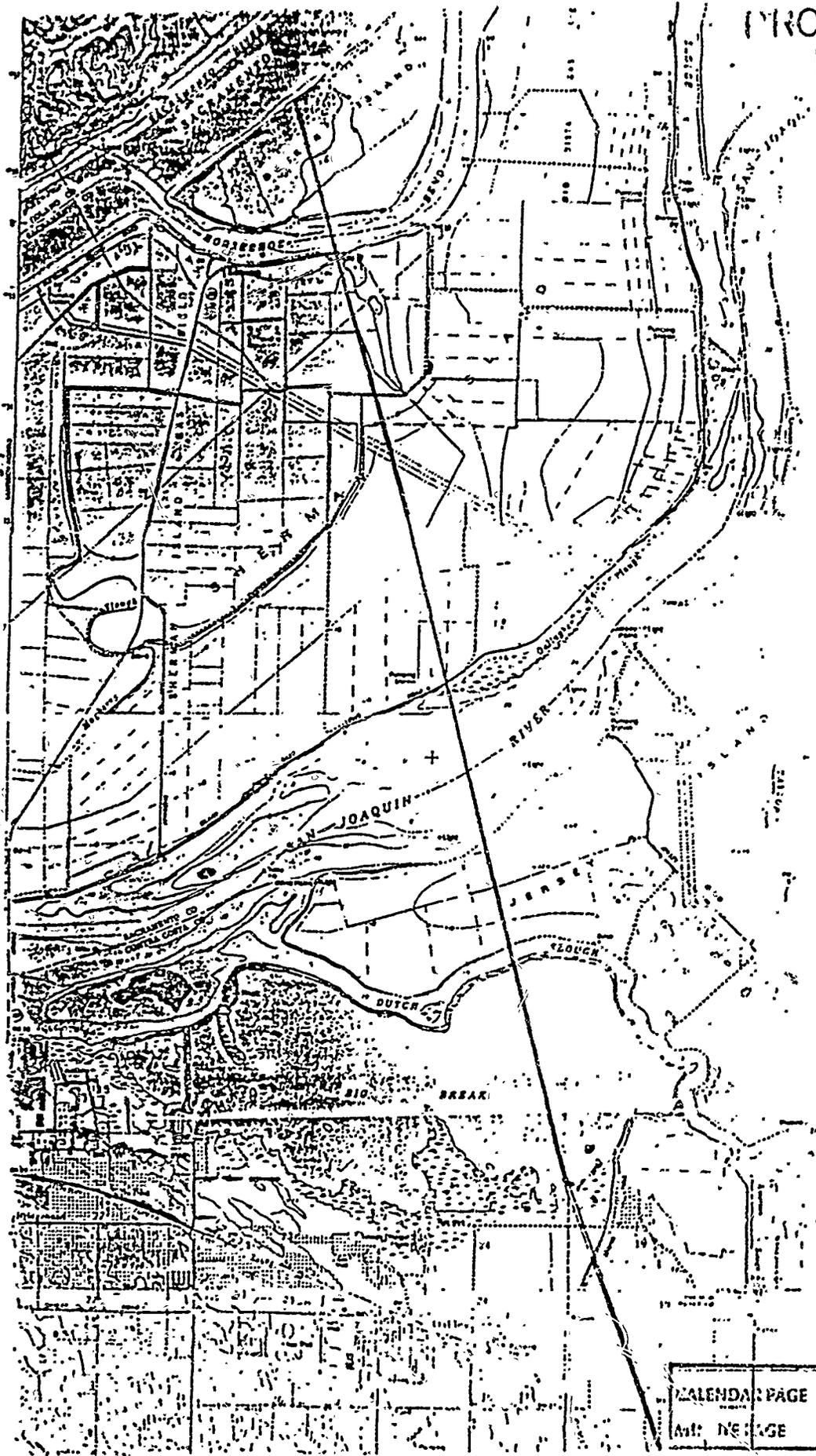
Based upon the attached Initial Study, it has been found that:

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

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

CALENDAR PAGE	119
MINUTE PAGE	Form 13 17 619/18 649

PROJECT  
MAP



CALENDAR PAGE	120
AMOUNT PAGE	642

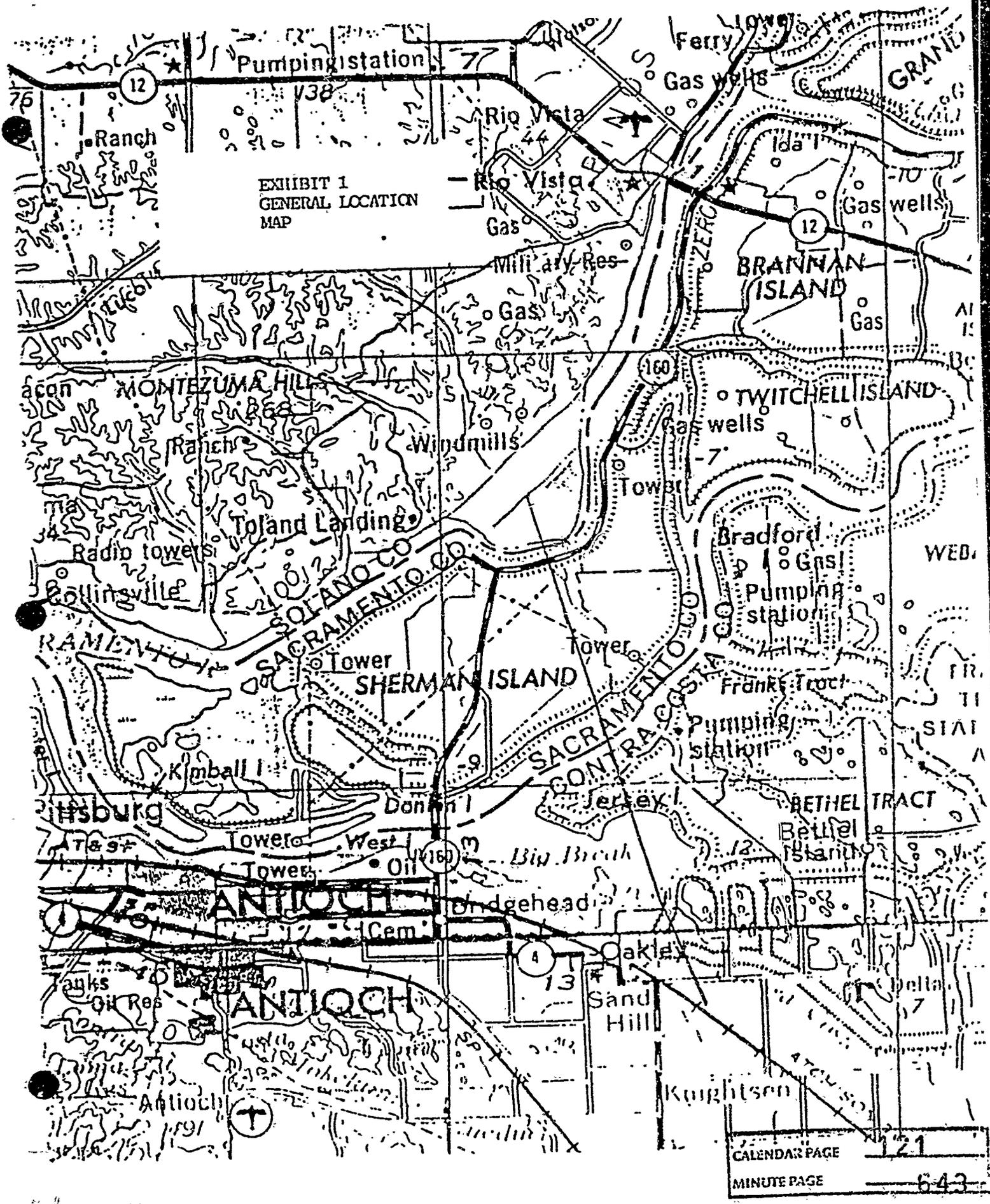


EXHIBIT 1  
GENERAL LOCATION  
MAP

EXHIBIT 2 - VERBAL DESCRIPTION OF LINE LOCATION

Line SAC-88-101 is approximately 7.8 miles in length with a NW to SE orientation. The line starts in Solano county in the North crossing through Sacramento County and ending up in Contra Costa County in the South. The line begins on Decker Island as indicated on the enclosed maps. It crosses over the pasture land of the island entering Horseshoe Bend approximately 1 mile from the South intersection of Horseshoe Bend and the Sacramento River. The water crossing is for 1000'+/- over open water crossing a narrow tule bank located near Decker Island and entering Sherman Island over an improved levee bank.

Once on Sherman Island the line continues over dormant agricultural concerns for 13000'+/-, entering the San Joaquin River 14000'+/- East of it's intersection with State Highway 160. The water crossing is in open water for 4400'+/- leaving the improved levee bank on Sherman Island crossing a small tip of Grayson Island and entering over the improved levees of Jersey Island. The line continues to the south over the pasture lands of Jersey Island for approximately 3300'. The line then enters the body of water known as the Big Break. It crosses the open waters of the Big Break for 7000'+/- crossing over a narrow tule bank on the North side of the Big Break located in a channel known as Dutch Slough. It then reenters land on the West section line of section 19 T2N R3E. Upon leaving the water the line crosses over a small marsh area for approximately 300'. It continues to the south over open ground and various agricultural concerns for 7600'+/... The line ends in the south half of section 30 T2N R3E at a point approximately 1.5 miles southeast of the town of Oakley.

### EXHIBIT 3 - MODE OF OPERATIONS

The majority of this survey will be conducted on private property, mainly agricultural. Operations on land will include the use of buggy mounted drills, with pickup truck support and some use of helicopters for transportation of equipment and personnel.

For this project CGG will be using a down hole phonyx system to collect it's geophysical data. This will require the drilling of data collection points every 165' along our predetermined line location. Each data collection point will be drilled to a depth of 50' on land and 100' below the bottom of any watercourse. The holes will be loaded with a phonyx phone (a sensing device) and a 5 lbs. charge. The only exceptions to this procedure are noted in the cover letter and Exhibit 4. All holes will be filled immediately after drilling with a bentonite solution. Drilling and plugging procedures will follow all OSHA and California Oil and Gas Commission Standards.

The seismic signal generated by the phonyx phone will be transmitted to CGG's recording device by a series of Telemetry Sending Units (TSU). Each TSU consists of a 30" high, watertight, metal cylinder weighing 22 lbs and equipped with an antenna. A TSU will be positioned at each data collection point and hooked up to the individual phonyx phone. The TSU will be fitted with a tripod on land and a buoy in the water. This system allows the seismic signal to be transmitted by radio frequency, alleviating the need for seismic cables.

EXHIBIT 4 - OPERATIONS IN VICINITY OF LEVEES

- 1.) No hole loaded with a charge shall be closer than 250' from the center of the levee crown on the land or water side of the levee.
- 2.) No hole loaded with a geophone only (no charge) shall be drilled closer than 165' from the center of the levee crown on the land or water side of the levee.
- 3.) A hole loaded with a geophone only may be drilled in the center of the levee crown.

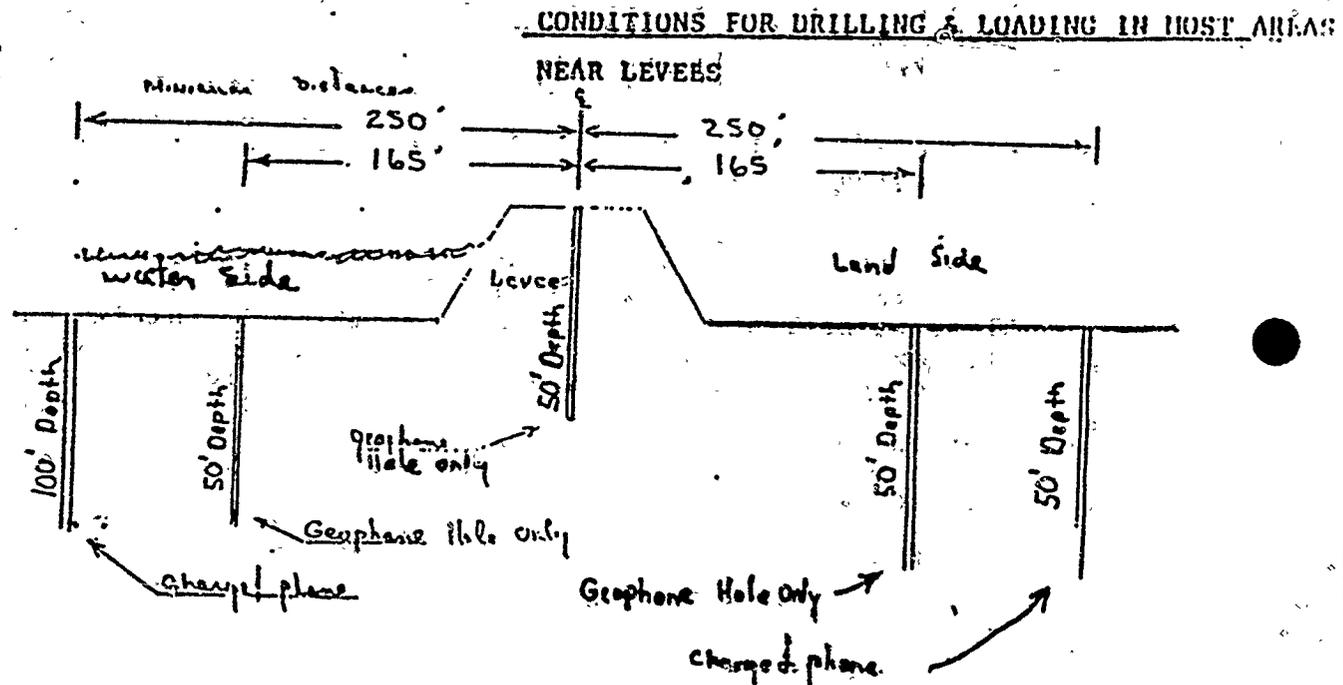


EXHIBIT 5 - OPERATIONS ON WATERWAYS AND WITHIN MARSH LANDS

--A. Data collection points loaded with a charge and a phonyx phone shall be drilled to a 100' depth below the bottom of any body of water or watercourse. Data collection points that are not loaded with a charge and are loaded with a phonyx phone only will be drilled to a depth of 50' depth below the bottom of any body of water or watercourse. The method for drilling the data collection points shall be through the use of a pontoon drill, which is self propelled and which enters and exits the water at approved locations.

--B. In order to place our sensing equipment from levee to levee or in open water it will be necessary to place by hand a series of TSU's. Each TSU will be placed in a buoy shell and connected to a phonyx phone. In most cases this will be done from a large work boat launched at approved locations. In some cases where there are narrow water crossings or when a boat is not already launched, it may be necessary to hand carry from a pickup truck on the levee a 12-15' aluminum boat to transport the TSU system into the water. No alteration to the stream bed will occur in either case. Any equipment entering or exiting the water will do so at locations approved by the Department of Fish and Game or it's observer.

--C. For this project there will be no need to use heavy equipment, drilling operations or explosives in any riparian area or marsh wetlands. In areas where marsh lands are encountered a weighted phonyx phone or marsh phones will be used in place of the down hole phonyx phone.

--D. Any explosive operations will be conducted pursuant to permits from the Department of Fish and Game and local counties. Unless otherwise authorized by the Department of Fish and Game there will be no use of explosives in any marsh land or watercourse during the months of April, May, June, September or October.

**EXHIBIT 8 - REQUIRED GOVERNMENT AND ADMINISTRATIVE PERMITS**

- 1.) Department of Fish and Game
- 2.) Sacramento Port District
- 3.) Department of The Army
- 4.) Sacramento Sheriff's Department
- 5.) Solano County Fire Warden
- 6.) Contra Costa Fire Department
- 7.) Department of Water Resources
- 8.) Contra Costa County Public Works Department
- 9.) Contra Costa Water District
- 10.) Sherman Island Reclamation District



2. Permits are issued for several types of surveys, on various types of State-owned lands. Please identify the appropriate category of permit for which this application is submitted:

a. Purpose of Survey

- Geophysical Survey for Resource Evaluation
- Geophysical Scientific Research and/or Non-commercial Operations
- Geophysical Survey for Geotechnical Facility Design or Inspection
- Geological Survey for Resource Evaluation
- Geological Scientific Research and/or Non-commercial Operation
- Geological Survey for Geotechnical Facility Design or Inspection

b. Type of Survey and Equipment to be used

Survey

- Seismic
- Gravity
- Magnetic
- Geologic Sample (boring or core)
- \_\_\_ dart      \_\_\_ percussion  
    \_\_\_ grab     \_\_\_ rotary bit  
    \_\_\_ jet
- Other \_\_\_\_\_

Equipment

- Acoustic Pulse Generator
- \_\_\_ Air  
    \_\_\_ Water  
    \_\_\_ Other \_\_\_\_\_
- Sparker
- Explosive Charge
- Other \_\_\_\_\_

c. Area of Survey

- Tide and Submerged Lands (offshore) between Mexican Border and Oregon Border
- Sovereign Lands (inland)  
Specific Location: See enclosed map for details
- Proprietary Lands  
Specific Location: See enclosed map for details

Agency which manages surface: State of California/Department of Fish

3. Geophysical and geological survey permits have certain standard terms and conditions. In addition to specifying that the permits are non-exclusive and requiring that the permittee obtain all applicable permits and obey all laws and regulations applicable to the conduct of operations under the permit, all geophysical and geological survey permits provide for specific notification procedures to alleviate use conflicts, require submission of a field operations report including a post-plot 30 days after each survey is completed, require the permittee to submit all factual or physical exploration results requested by Commission staff, and require indemnity against third party claims. Offshore geophysical survey permits and permits involving use of explosives require a \$25,000 performance bond or letter of credit.

Permits are issued for various time periods, depending on locations and other uses of lands. A single geophysical permit for both deep seismic and high resolution work is normally issued for a period of three years on State Tide and Submerged Lands (offshore) from the Mexican Border to the Oregon Border. A single geological permit is normally issued for a period of three years for non-rotary geological sampling activities on State Tide and Submerged Lands (offshore) from the Mexican Border to the Oregon Border. The Commission has recently conducted programmatic environmental review for these two offshore permit programs. For any survey involving explosives, rotary coring or activities on inland sovereign or proprietary lands, a project-specific permit with a specified term will be issued after the Commission reviews the project for potential environmental impacts or land use conflicts. Please identify the permit for which this application is submitted.

- General Permit to Conduct Seismic Surveys on Tide and Submerged Lands (offshore)
- General Permit to Conduct Geological Surveys (offshore)
- Permit to Conduct Seismic Surveys on Sovereign (inland) or Proprietary Lands
- Permit to Conduct Geophysical Surveys Using Explosives
- Permit to take Geologic Samples using Rotary Core Drilling Techniques

4. For any permit involving sovereign lands (inland), proprietary lands, explosives or rotary borings, a detailed description of the project must be submitted. The description must include specific locations of activities, detailed maps, specific description of all equipment to be used, and the proposed dates of activities. In addition, a detailed description of the existing environment at the project site and an identification of all agencies which will permit or regulate the project must be submitted. The greater the level of detail submitted by the applicant, the more efficiently



and cost-effectively the application can be processed by Commission staff.

A nonrefundable filing fee of \$25.00 and a nonrefundable expense deposit of \$300.00 are required for each permit application.

5. In the course of processing the application, either prior to declaring it complete, or subsequent thereto, the applicant may be required to enter into a written reimbursement agreement to cover the environmental costs incurred by the Commission in preparing a negative declaration or an environmental impact report.

6. Signature and Certification.

All statements contained above on the attached application form and related exhibit are true and correct to the best of my knowledge and belief and are submitted under penalty of perjury.

CGG LAND SEISMIC  
A Division of CGG American Services Inc.

Applicant: \_\_\_\_\_

By:  \_\_\_\_\_

(If Agent)

Date: \_\_\_\_\_

11-12-87

CAL. CHALLENGE	131
REFERENCE	653

Date Filed: 11 / 16 / 01

File Ref.: \_\_\_\_\_

**ENVIRONMENTAL IMPACT ASSESSMENT FORM - Part I**  
 to be completed by applicant  
 (FORM 69.2(11/82))

**GENERAL INFORMATION**

1. Name, address, and telephone number:

a. Applicant

CGG American Services Inc.  
 P.O. Box 488  
 Thornton, CA. 95686  
 (209) 794-2382

b. Contact person if other than applicant:

James F. Prossick

a. Project location: (Please reference to nearest town or community and include county)  
 See Exhibit 1 and 2

b. Assessor's parcel number: Not Available

Existing zoning of project site: Agriculture

Existing land use of project site: Farm Lands, Marsh, or Waterways

Proposed use of site: Geophysical Survey

Other permits required: See Exhibit 6

**PROJECT DESCRIPTION**

For building construction projects, complete "ATTACHMENT A".

For non-building construction projects: Describe fully, the proposed activity, its purpose and intended use, and 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.

132  
 654

**C. ENVIRONMENTAL SETTING**

1. Describe the project site as it exists before the project, including information on topography, soil stability, plants and animals, and any cultural, historical, or scenic aspects. Describe any existing structures on the site, and the use of the structures.
2. Describe the surrounding properties, including information on plants and animals and any cultural, historical, or scenic aspects. Indicate the type of land use (residential, commercial, etc.), intensity of land use (one-family, apartment houses, shops, department stores, etc.), and scale of development (height, frontage, set-back, rear yard, etc.).

**D. ENVIRONMENTAL IMPACT ASSESSMENT**

Answer the following questions by placing a check in the appropriate box. Discuss all items checked "yes" or "maybe".  
(Attach additional sheets as necessary)

- |   | YES                                 | MAYBE                    | NO                                  |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Will the project involve:   |                                     |                          |                                     |
| 1. a change in existing features of any bays, tidelands, beaches, lakes, or hills, or substantial alteration of ground contours? .....                            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. a change in scenic views or vistas from existing residential areas or public lands or roads? .....   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. a change in pattern, scale, or character of the general area of project? .....   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. a significant effect on plant or animal life? .....  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. significant amounts of solid waste or litter? .....  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. a change in dust, ash, smoke, fumes, or odors in the vicinity? .....   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. a change in ocean, bay, lake, stream, or ground water quality or quantity, or alteration of existing drainage patterns? .....                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. a change in existing noise or vibration levels in the vicinity? .. <u>Drilling operations. See Exhibit 3 &amp; 5</u> .....                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9. construction on filled land or on slope of 10 percent or more? .....   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. use or disposal of potentially hazardous materials, such as toxic or radioactive substances, flammables, or explosives? .. <u>See Exhibit 3 &amp; 5</u> ..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11. a change in demand for municipal services (police, fire, water, sewage, etc.)? .....  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. an increase in fossil fuel consumption (electricity, oil, natural gas, etc.)? .....   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13. a larger project or a series of projects? .....   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**E. CERTIFICATION**

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date: 11-12-87

Signed: James B. Brisch

CALENDAR PAGE 133  
INDEX PAGE 655

## STATE LANDS COMMISSION

## ENVIRONMENTAL IMPACT ASSESSMENT CHECKLIST - PART II

Form 13.26 (7/82)

File Ref: \_\_\_\_\_

## I. BACKGROUND INFORMATION

A. Applicant: CGG American Services Inc.  
P.O. Box 488  
Thornton, CA. 95686

B. Checklist Date: 11 / 12 / 87

C. Contact Person: James T. P...ek DAN CHEN  
 Telephone: 1-509-1-704-1380 (916) 324-8497

D. Purpose: Geophysical Survey

E. Location: See Exhibit 1

F. Description: See Exhibit 2

G. Persons Contacted: Government Agencies - See Exhibit 3

## II. ENVIRONMENTAL IMPACTS. (Explain all "yes" and "maybe" answers)

A. Earth. Will the proposal result in:

1. Unstable earth conditions or changes in geologic substructures? .....
2. Disruptions, displacements, compaction, or overcovering of the soil? See Exhibit 3 .....
3. Change in topography or ground surface relief features? .....
4. The destruction, covering, or modification of any unique geologic or physical features? .....
5. Any increase in wind or water erosion 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? .....

Yes Maybe No

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

134

656

B. Air. Will the proposal result in:

- 1. Substantial air emissions or deterioration of ambient air quality?
- 2. The creation of objectionable odors?
- 3. Alteration of air movement, moisture or temperature, or any change in climate, either locally or regionally?

C. Water. Will the proposal result in:

- 1. Changes in the currents, or the course or direction of water movements, in either marine or fresh waters?
- 2. Changes in absorption rates, drainage patterns, or the rate and amount of surface water runoff?
- 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 oxygen or turbidity? . . . SEE Exhibit 5
- 6. Alteration of the direction or rate of flow of ground waters?
- 7. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?
- 8. Substantial reduction in the amount of water otherwise available for public water supplies?
- 9. Exposure of people or property to water-related hazards such as flooding or tidal waves?
- 10. Significant changes in the temperature, flow or chemical content of surface thermal springs?

D. Plant Life. Will the proposal result in:

- 1. Change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?
- 2. Reduction of the numbers of any unique, rare or endangered species of plants?
- 3. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?
- 4. Reduction in acreage of any agricultural crop? . . . SEE Exhibit 2,3.

E. Animal Life. Will the proposal result in:

- 1. Change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shellfish, benthic organisms, or insects)?
- 2. Reduction of the numbers of any unique, rare or endangered species of 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?

F. Noise. Will the proposal result in:

- 1. Increase in existing noise levels? . . . See Exhibit 3&5
- 2. Exposure of people to severe noise levels?

G. Light and Glare. 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?

I. Natural Resources. Will the proposal result in:

- 1. Increase in the rate of use of any natural resources?
- 2. Substantial depletion of any nonrenewable resources?

- J. Risk of Upset.** Does the proposal result in:
- |   | Yes                      | Maybe                               | No                                  |
|---|--------------------------|-------------------------------------|-------------------------------------|
| 1. A risk of an explosion or the release of hazardous substances (including, but not limited to, oil, pesticides, chemicals, or radiation) in the event of an accident or upset condition? <i>See Exhibit 3 &amp; 5</i> ..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Possible interference with emergency response plan or an emergency evacuation plan? .....  | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
- K. Population.** Will the proposal result in:
- |   |                          |                          |                                     |
|---|--------------------------|--------------------------|-------------------------------------|
| 1. The alteration, distribution, density, or growth rate of the human population of the area? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|-------------------------------------|
- L. Housing.** Will the proposal result in:
- |   |                          |                          |                                     |
|---|--------------------------|--------------------------|-------------------------------------|
| 1. Affecting existing housing, or create a demand for additional housing? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|-------------------------------------|
- M. Transportation/Circulation.** Will the proposal result in:
- |   |                          |                          |                                     |
|---|--------------------------|--------------------------|-------------------------------------|
| 1. Generation of substantial additional vehicular movement? .....                           | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Affecting existing parking facilities, or create a demand for new parking? .....         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Substantial impact upon existing transportation systems? .....                           | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Alterations to present patterns of circulation or movement of people and/or goods? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Alterations to waterborne, rail, or air traffic? .....                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians? .....         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- N. Public Services.** Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:
- |   |                          |                          |                                     |
|---|--------------------------|--------------------------|-------------------------------------|
| 1. Fire protection? .....                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Police protection? .....                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Schools? .....   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Parks and other recreational facilities? .....           | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Maintenance of public facilities, including roads? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Other governmental services? .....                       | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- O. Energy.** Will the proposal result in:
- |   |                          |                          |                                     |
|---|--------------------------|--------------------------|-------------------------------------|
| 1. Use of substantial amounts of fuel or energy? .....  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Substantial increase in demand upon existing sources of energy, or require the development of new sources? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- P. Utilities.** Will the proposal result in a need for new systems, or substantial alterations to the following utilities:
- |                                    |                          |                          |                                     |
|------------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Power or natural gas? .....     | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Communication systems? .....    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Water? .....                    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Sewer or septic tanks? .....    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Storm water drainage? .....     | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Solid waste and disposal? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- Q. Human Health.** Will the proposal result in:
- |  |                          |                          |                                     |
|--|--------------------------|--------------------------|-------------------------------------|
| 1. Creation of any health hazard or potential health hazard (excluding mental health)? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Exposure of people to potential health hazards? .....                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- R. Aesthetics.** Will the proposal result in:
- |  |                          |                          |                                     |
|--|--------------------------|--------------------------|-------------------------------------|
| 1. The obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view? ..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|-------------------------------------|
- S. Recreation.** Will the proposal result in:

T. *Cultural Resources.*

Yes Maybe No

1. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archeological site?
2. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic building, structure, or object?
3. Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values?
4. Will the proposal restrict existing religious or sacred uses within the potential impact area?

U. *Mandatory Findings of Significance.*

1. Does the project have the potential to degrade the quality of the environment, reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?
2. Does the project have the potential to achieve short-term, to the disadvantage of long-term environmental goals?
3. Does the project have impacts which are individually limited, but cumulatively considerable?
4. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

I. DISCUSSION OF ENVIRONMENTAL EVALUATION *(See Comments Attached)*

SEE Cover Letter and Exhibits 1-6

**PRELIMINARY DETERMINATION**

On the basis of this initial evaluation:

- I find the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the project. A **NEGATIVE DECLARATION** will be prepared.
- I find the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.

Date: 12.1.29.1.87.

*Paul C. ...*  
San Diego State University

CALENDAR PAGE	137
MINUTE OF	659