

MINUTE ITEM
This Calendar Item No. 45
was approved as Minute Item
No. 45 by the State Lands
Commission by a vote of 2
to 0 at its 12/13/88
meeting.

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CALENDAR ITEM

- 45

12/13/88 |
W 6005.12 PRC 7267
Livenick

APPROVAL OF A GEOPHYSICAL SURVEY PERMIT FOR STATE-OWNED
TIDE AND SUBMERGED LANDS IN THE SACRAMENTO DELTA
AREA OF 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 11
lines, totalling 142.5 miles, 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 all 11 seismic survey lines.

TERM: The term of the Geophysical Survey Permit shall
be from November 1, 1988 through May 31, 1990.

PROJECT: CGG American Services, Inc. has proposed to
conduct a geophysical seismic survey in the
Sacramento Delta Area of Solano, Contra Costa,
and Sacramento counties. The survey will be
performed in 11 lines totalling approximately
142.5 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 3,376
four-inch diameter holes will be drilled on
165-foot centers to a depth of 50-100 feet.
Approximately 592 shallower holes will be
drilled where environmental conditions
warrant. The holes may be loaded with a

CALENDAR ITEM NO. 45 (CONT'D)

five-pound explosive charge and/or geophone instrumentation. The holes will be backfilled with bentonite to seal them.

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. The conditions 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 applicant has submitted evidence that all responsible agencies are expected to issue necessary permits. This evidence is attached as Exhibit "C". 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. Code Regs., Title II, Article 2.9, Section 15250 et. seq.
- C. P.R.C. 21080.5 and CEQA Guidelines, Section 15250 et. seq.

AB 884:

01/14/89.

CALENDAR ITEM NO. 45 (CONT'D)

OTHER PERTINENT INFORMATION:

1. Pursuant to the Commission's delegation of authority and the State CEQA Guidelines (14 Cal. Code Regs. 15025), the staff has prepared a Negative Declaration EIR ND 447, State Clearinghouse #88092603. 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. Code Regs. 15074(b)).

2. This activity involves lands identified as possessing 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.
- C. Evidence of Local Permits.

IT IS RECOMMENDED THAT THE COMMISSION:

1. CERTIFY THAT A NEGATIVE DECLARATION EIR ND 447 STATE CLEARINGHOUSE #88092603, 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.

CALENDAR ITEM NO. 45 (CONT'D)

4. AUTHORIZE THE ISSUANCE TO CGG AMERICAN SERVICES, 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 SOLONA COUNTIES FOR THE PERIOD OF NOVEMBER 1, 1988 THROUGH MAY 31, 1990.

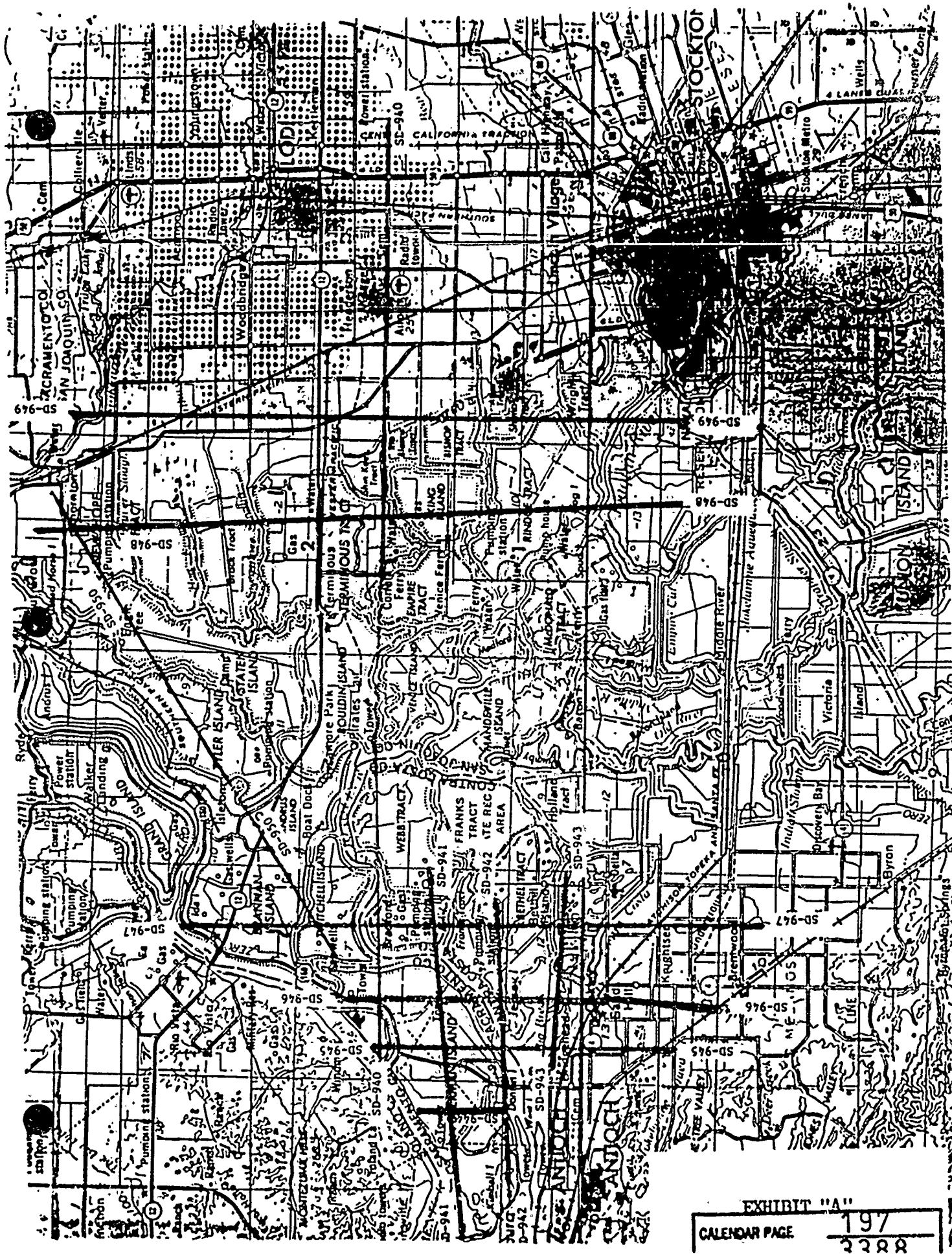


EXHIBIT "A"
 CALENDAR PAGE 197
 2222

STATE LANDS COMMISSION
1807 13TH STREET
SACRAMENTO, CALIFORNIA 95814

EXHIBIT "B"



PROPOSED NEGATIVE DECLARATION

EIR ND 447

File Ref.: W 6005.12

SCH#:

Project Title: CGG Saé Delta Phase 4 Geophysical Survey

Project Proponent: CGG Land Seismic

Project Location: Sacramento - San Joaquin Delta, Solano, Contra Costa, Sacramento and San Joaquin Counties.

Project Description: CGG proposes eleven seismic lines totaling 142.5 miles to determine location of natural gas deposits. The "down-hole" and "mini-hole" methods will be employed with explosive charges and phonyx phones or geophones.

Contact Person: Dan Cohen, Environmental Specialist

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 regulations (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	198
MINUTE PAGE	3389

ENVIRONMENTAL IMPACT ASSESSMENT CHECKLIST - PART II

Form 13.20 (7/82)

File Ref.: W 6005.12

I. BACKGROUND INFORMATION

- A. Applicant: CGG American Services, Inc.
P.O. Box 488
Thornton, CA 95686
- B. Checklist Date: 08 / 18 / 88
- C. Contact Person: Dan Cohen
 Telephone: (916) 324-8497
- D. Purpose: GEOPHYSICAL SURVEY
- E. Location: San Joaquin Sacramento Delta Region See Exhibit 1 & 2 for more detail.
- F. Description: See Exhibit 3 - CGG is proposing a continuation of its geophysical survey for natural gas deposits in the Sacramento-San Joaquin Delta. The proposal consists of eleven seismic lines totaling 142.5 miles in Sacramento, San Joaquin, Solano and Contra Costa counties. Two different energy sources would be employed to acquire data: the down-hole method would be used on approximately 105.5 miles, and the mini-hole method used on approximately 37 miles. The total number of drill points will be approximately 3,376 deep holes, and 592 mini-hole patterns. The project is scheduled between October, 1988 and May, 1989.

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

- A. *Earth*. Will the proposal result in:
- | | Yes | Maybe | No |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. Unstable earth conditions or changes in geologic substructures? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Disruptions, displacements, compaction, or overcovering of the soil? See Exhibit 3 (Drilling) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Change in topography or ground surface relief features? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. The destruction, covering, or modification of any unique geologic or physical features? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Any increase in wind or water erosion of soils, either on or off the site? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. Exposure of all people or property to geologic hazards such as earthquakes, landslides, mudslides, ground failure, or similar hazards? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CALENDAR PAGE

199

MINUTE PAGE

3390

- 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?
 - 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 Exhibits 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 (Drilling)*
 - 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
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 conditions?
 2. Possible interference with emergency response plan or an emergency evacuation plan?
- K. Population.** Will the proposal result in:
1. The alteration, distribution, density, or growth rate 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?
 2. Affecting existing parking facilities, or create a demand for new parking?
 3. Substantial impact upon existing transportation systems?
 4. Alterations to present patterns of circulation or movement of people and/or goods?
 5. Alterations to waterborne, rail, or air traffic?
 6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians?
- 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?
 2. Police protection?
 3. Schools?
 4. Parks and other recreational facilities?
 5. Maintenance of public facilities, including roads?
 6. Other governmental services?
- O. Energy.** Will the proposal result in:
1. Use of substantial amounts of fuel or energy?
 2. Substantial increase in demand upon existing sources of energy, or require the development of new sources?
- P. Utilities.** Will the proposal result in a need for new systems, or substantial alterations to the following utilities:
1. Power or natural gas?
 2. Communication systems?
 3. Water?
 4. Sewer or septic tanks?
 5. Storm water drainage?
 6. Solid waste and disposal?
- Q. Human Health.** Will the proposal result in:
1. Creation of any health hazard or potential health hazard (excluding mental health)?
 2. Exposure of people to potential health hazards?
- 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?
- S. Recreation.** Will the proposal result in:
1. An impact upon the quality or quantity of existing recreational opportunities?

T. Cultural Resources.

- 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?

III. DISCUSSION OF ENVIRONMENTAL EVALUATION (See Comments Attached)

See Exhibits 1-3 for description.

IV. PRELIMINARY DETERMINATION

On the basis of this initial evaluation:

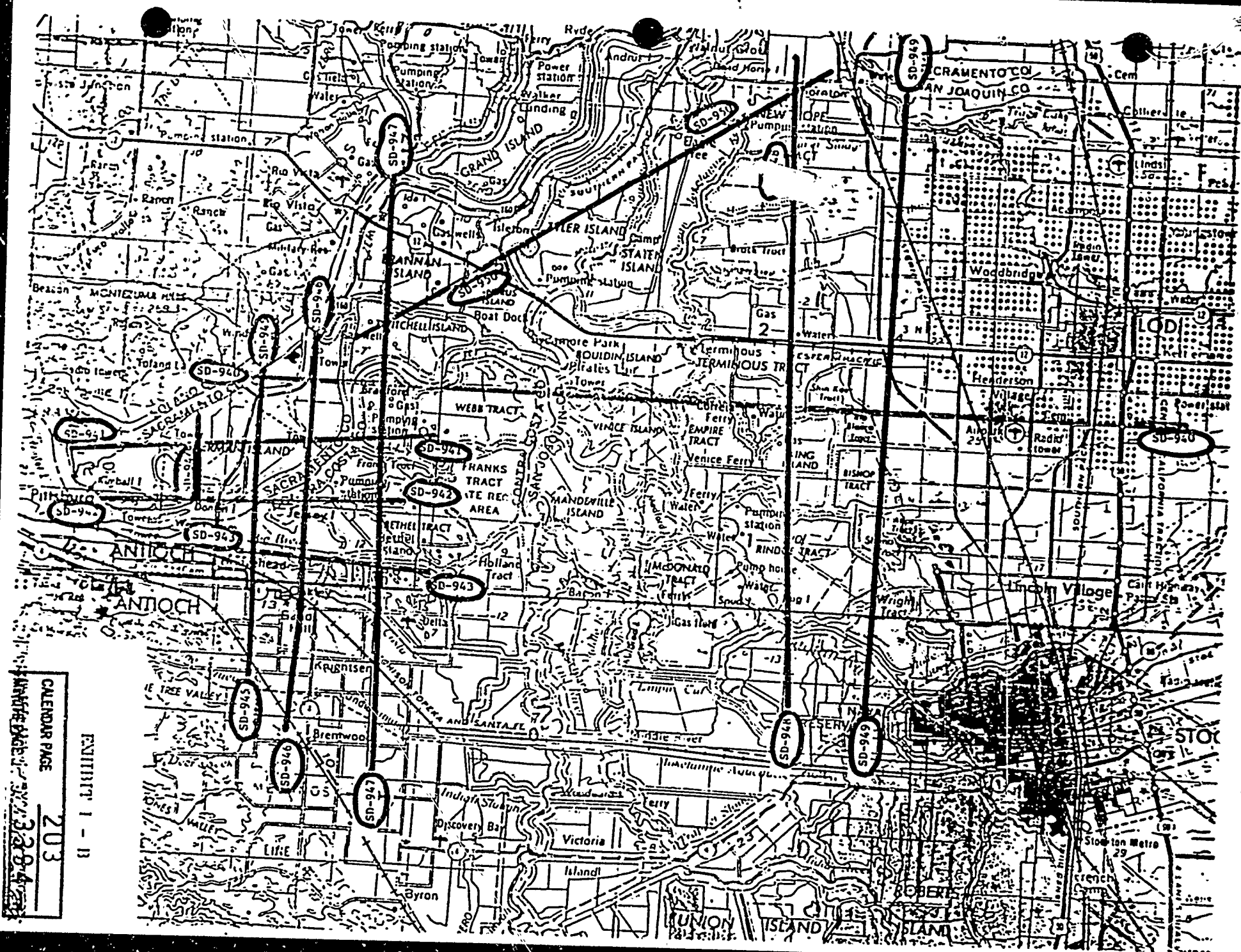
- I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation 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.

X TO BE DETERMINED AT CONCLUSION OF INITIAL STUDY REVIEW PERIOD.

Date: 08 / 18 / 88

D. Cohen
Dan Cohen
For the State Lands Commission

CALENDAR PAGE	202
MINUTE-PAGE	3393

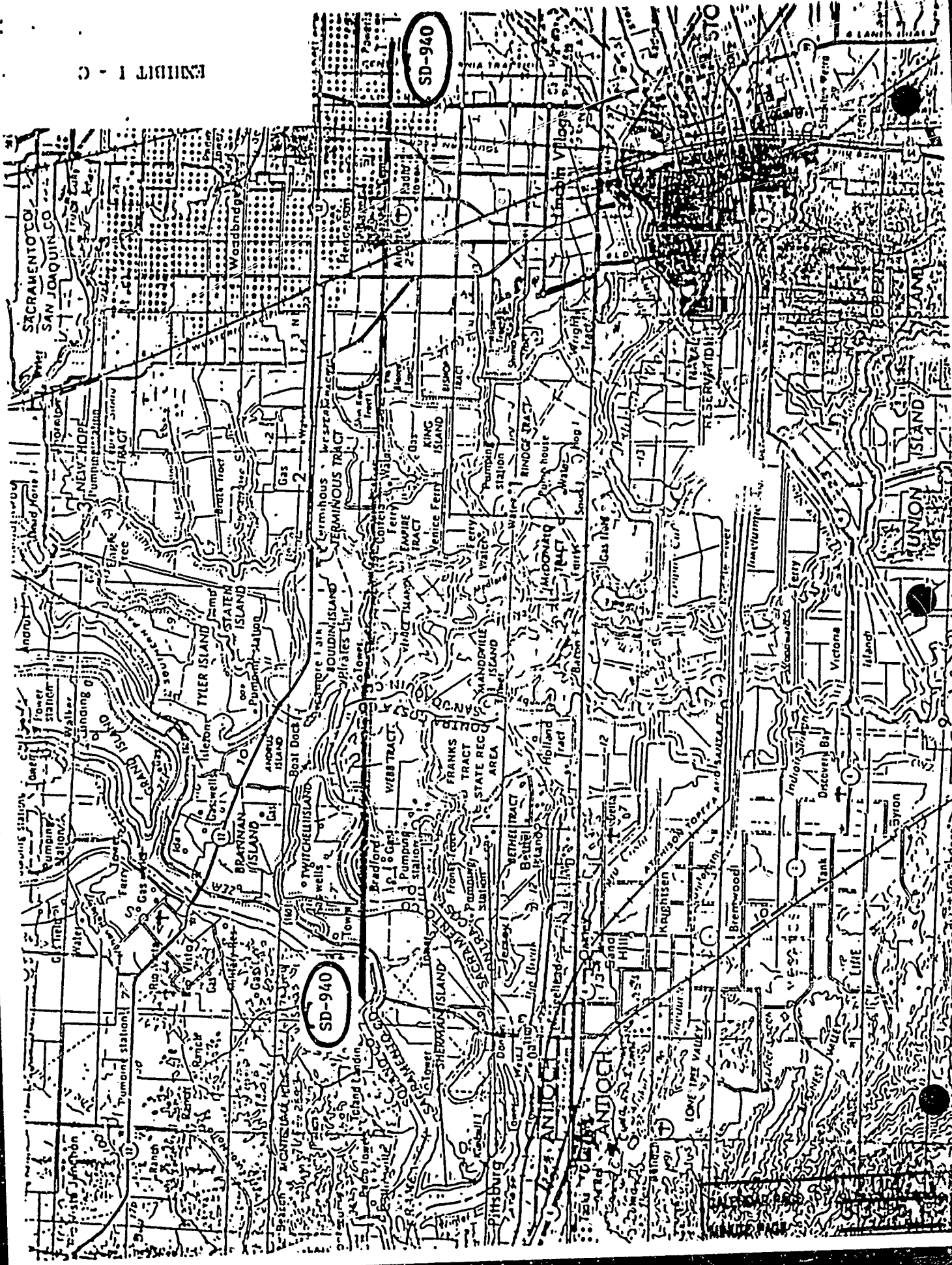


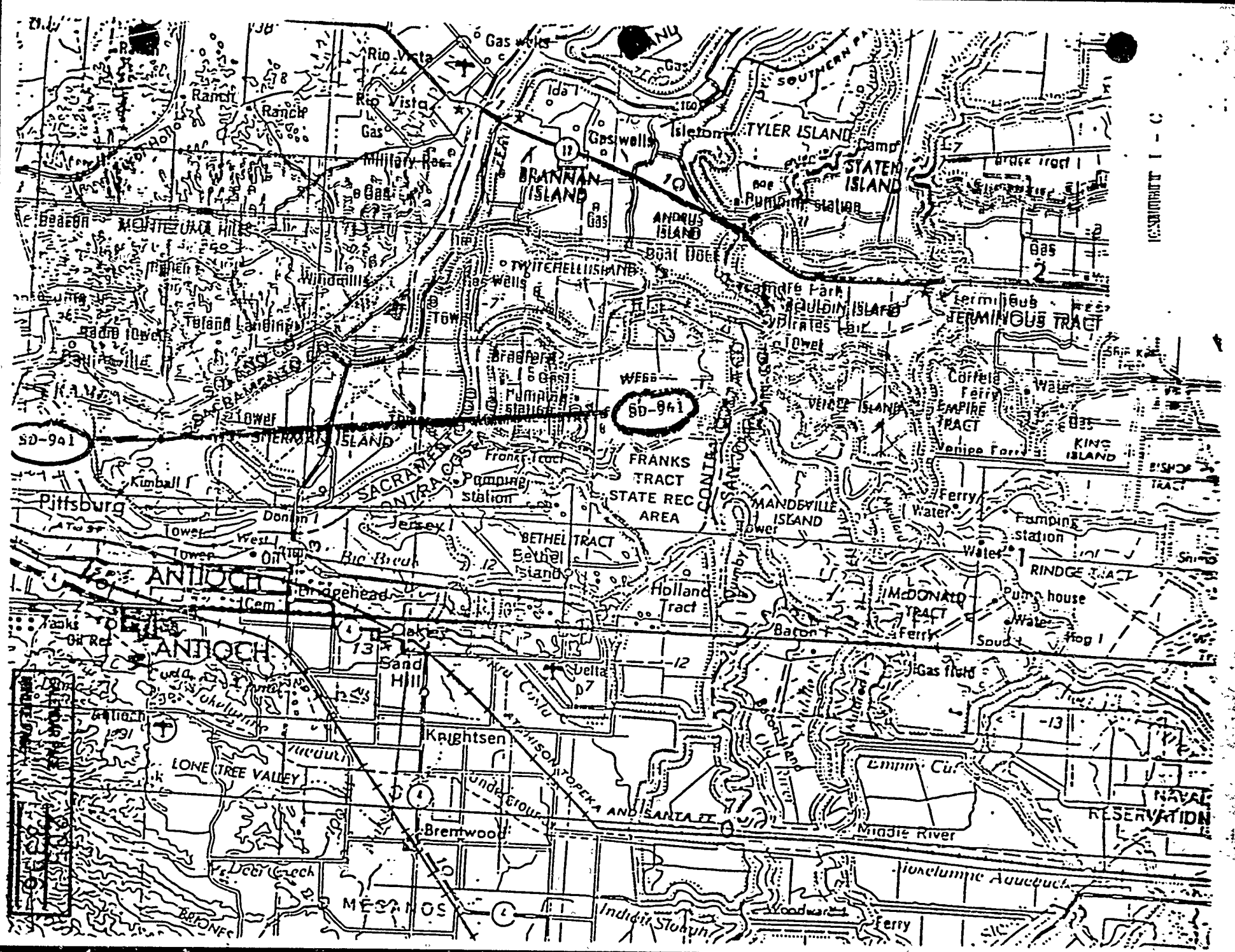
CALENDAR PAGE 203

EXHIBIT 1 - B

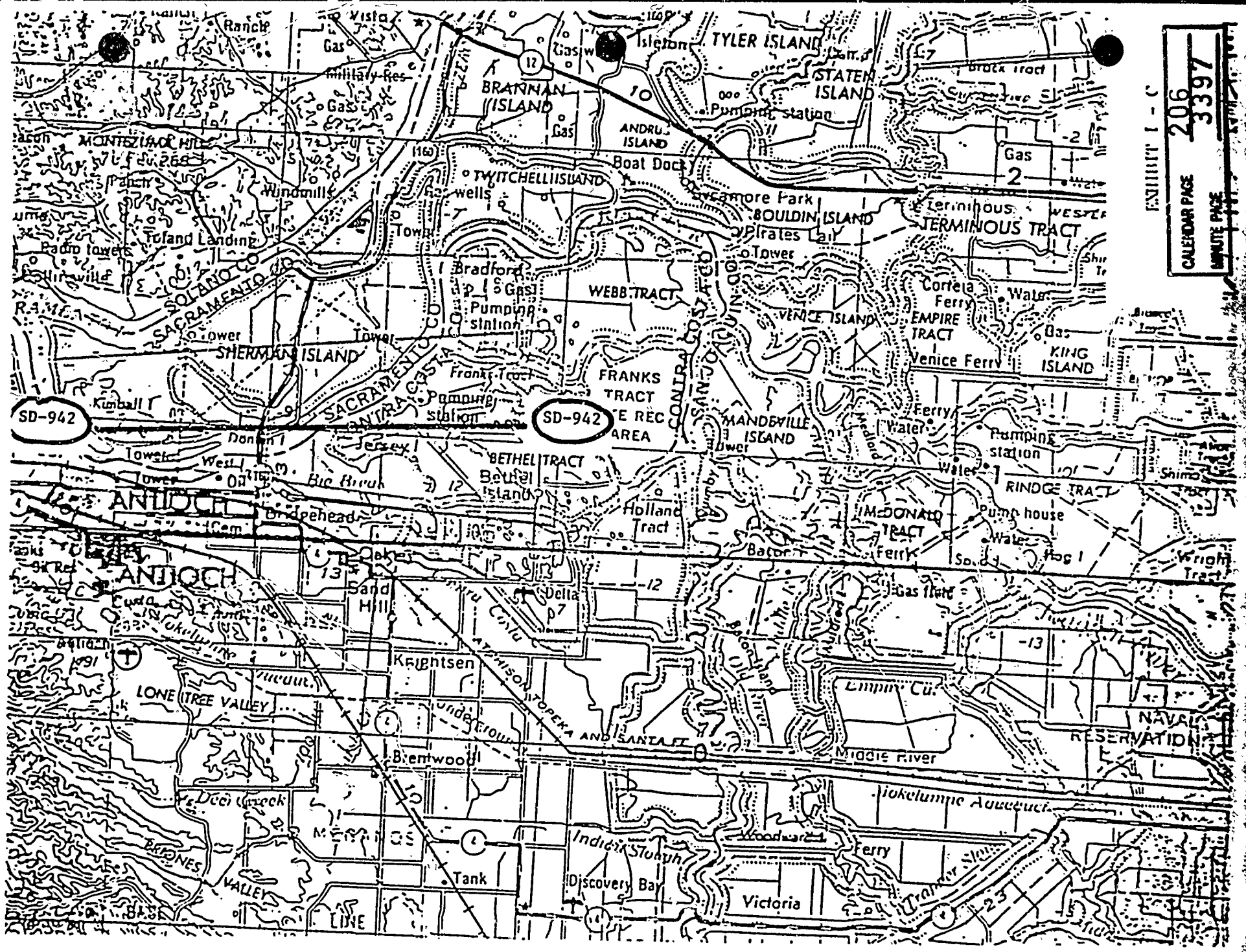
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10-SUBTRACT 1 - C



ENTIRE I - C

CALENDAR PAGE 206

3397

CALENDAR PAGE

MINUTE PAGE

EXHIBIT I - C



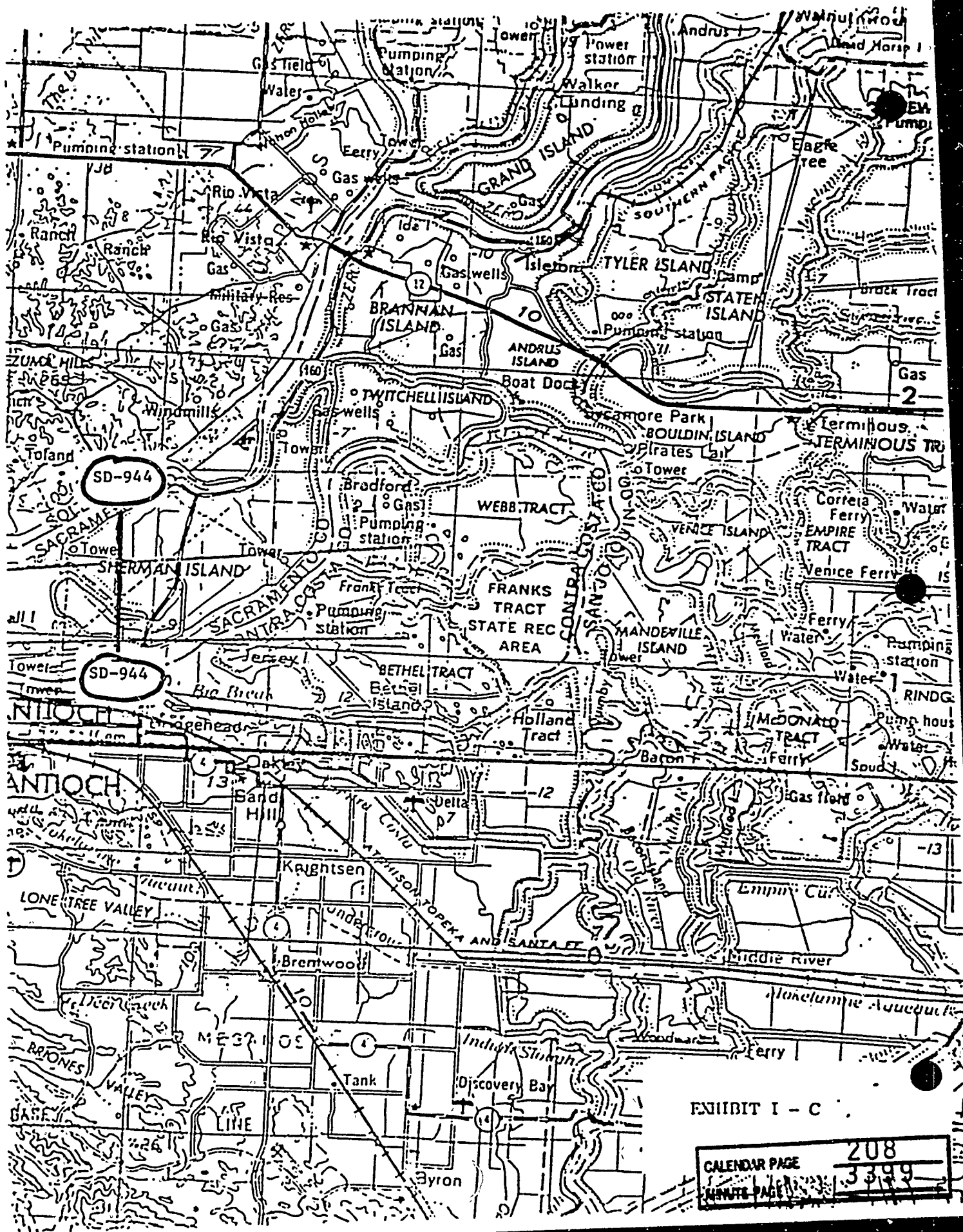


EXHIBIT I - C

CALENDAR PAGE	208
MINUTE PAGE	3399

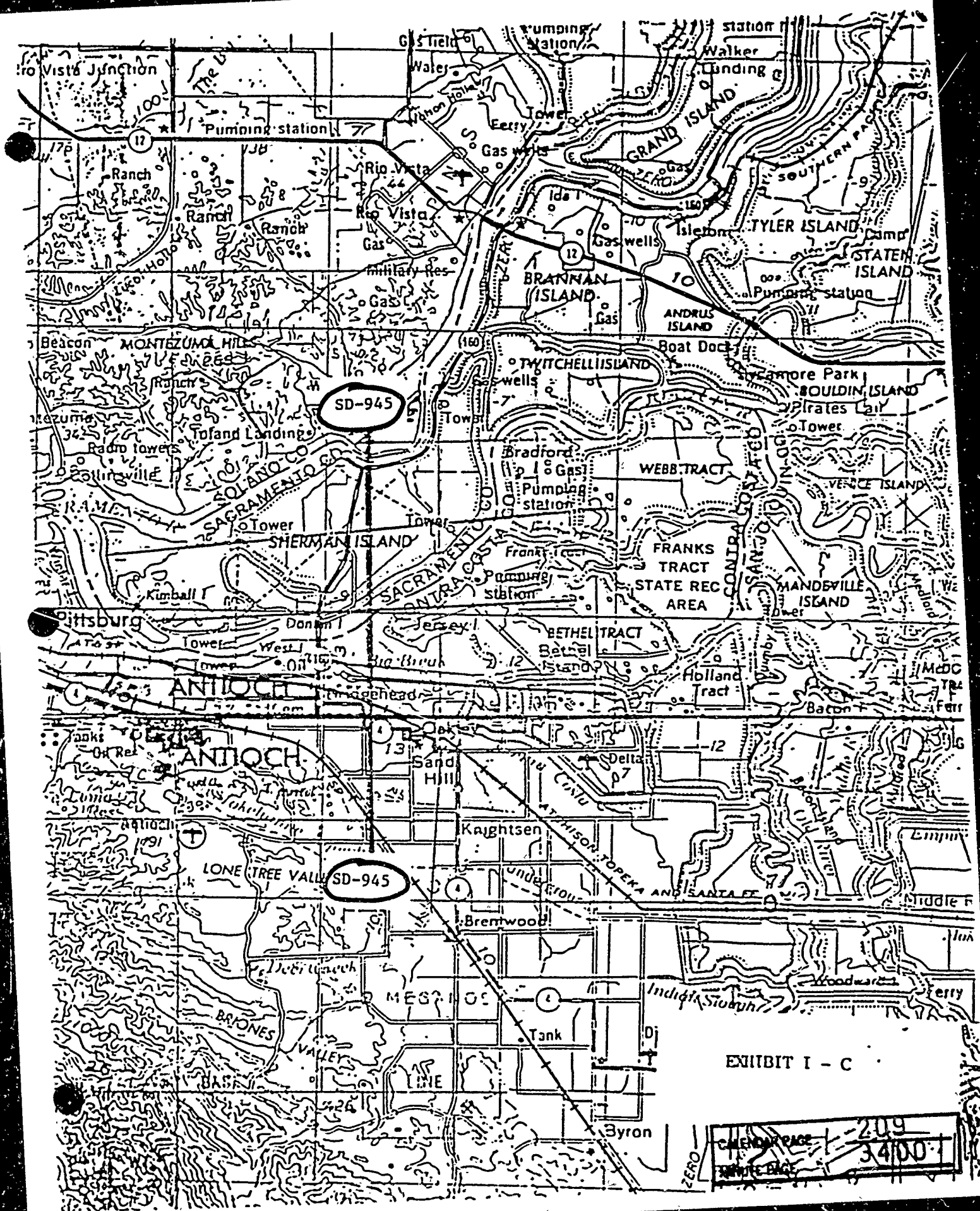


EXHIBIT I - C

CHECKED PAGE	209
DATE PAGE	3/100



EXHIBIT II - DETAILED LINE LOCATIONS

LINE SD 940: The orientation of this seismic line is east to west, spanning Solano, Sacramento and San Joaquin County. The line is approximately 28 miles in length. Beginning in the West the line starts at the SW corner of Decker Island. From that point the line extends to the East 6200' over grazing land, leaving the island and making a water crossing over Horseshoe Bend for 1400' and then entering Sherman Island. The first water crossing is over unimproved levees on Decker Island, across open water with a minimum of tule vegetation on either side and over the improved rip rap levee of Sherman Island. The line then extends across the varied agriculture of Sherman Island for 6200', making a 2600' water crossing over Three Mile Slough and the San Joaquin River just south of their intersection. It then extends to the East onto Bradford Island. The second water crossing is over improved levee banks on both sides and across open water. The line then extends for 7300' across the North end of Bradford Island's semi dormant agriculture, crossing the San Joaquin River and then entering Webb Tract. The third water crossing is 7100' in length, over improved levee banks with a minimum of tule vegetation on either bank.

Across Webb Tract the line extends to the East for 13200' over dormant and active agricultural concerns, making a 2600' water crossing on the San Joaquin River and extending onto Bouldin Island. The fourth crossing is of the open water variety, over improved levees with no substantial aquatic vegetation present. The line continues East over the agriculture of Bouldin Island, skirting it's southern boundary for 9500'. It then makes a 4300' open water crossing over Potato Slough. This fifth water crossing is over improved levees crossing some narrow tule islands. The line then enters Bouldin Island extending to the East for an additional 5200' before crossing Little Potato Slough and entering Empire Tract. The sixth crossing is for 700' in mainly open water across improved levee banks. Some tule growth will be encountered in the center of the river and at either bank. Extending across the agriculture of the North end of Empire Tract for 5500' the line then crosses White Slough and enters Terminous Tract. The water crossing is for 700' over improved levees, through small tule banks and open water. Once on Terminous Tract the line extends to the East for 12,500', crossing the Upland Canal and entering Shima Tract. The seventh water crossing is 200' over improved levees and open water. For 9300' the line extends along the South edge of Shin Kee Tract, crossing man made canals as it leaves the tract and crossing for 1000' over the proposed site of the peripheral canal. The line then extends inland for 9.5 miles staying just North of Armstrong road for the majority of that distance. The lines ending point comes approximately 2 miles East of the intersection of State Hwy 99 and Armstrong Road.

LINE SD 941: This seismic line is 10.6 miles in length with an East to West orientation. The line is located in both Sacramento and Contra Costa County. It begins on the West edge of Sherman Lake approximately 4700' South of Point Sacramento. The line then extends 9000' across the marsh lands of Sherman Island continuing through open water for 5600' and then crosses Mayberry Slough leaving the lake and entering Sherman Island proper. The line extends to the East across the agriculture of Sherman Island for 27,900' entering the San Joaquin River just North of its intersection with the False River and extending onto Bradford Island. The water crossing over the San Joaquin River is over improved levees and open water for 2800'. The line continues over the active and dormant agriculture of Bradford Island for 7800', making a 400' open water crossing over Fishermans Cut. Continuing into Webb Tract the line ends 2600' East of Fishermans Cut.

LINE SD 942: This line is oriented in an East to West direction and is approximately 8.5 miles in length. It is located in Sacramento and Contra Costa County. The line begins on the West side of Sherman Lake just East of Kimball Island. It extends across Sherman Lake for 8500' through mainly marsh lands and some open water. The line then crosses Mayberry Slough and extends across the submerged Donton Island. It then crosses Mayberry Slough skirting the North edge of a narrow tule island and continues onto Sherman Island over improved levee banks. The total distance from the East edge of Sherman Lake to the West edge of Sherman Island is approximately 6600'. The line continues across the agricultural landscape of Sherman Island for 7600' entering the San Joaquin River and extending onto Jersey Island. This water crossing is across open water and over improved levee banks. Once on Jersey Island the line continues across mainly pasture land for 7900' extending across Taylor Slough into Bethel Island. The Taylor Slough water crossing is a short one, 200' in length over open water and improved levees. The line enters Bethel Island approximately 1000' North of the intersection of Canal and Taylor roads, with the line ending on the island 5700' East of Taylor Slough.

LINE SD 943: The length of this line is approximately 5.6 miles and it is oriented in an East to West direction. This line is located entirely in Contra Costa County and begins approximately at the center of section 15 T2N R2E. The line begins on land in a moderate marsh area. It extends 2400' entering Big Break just North of a marina. The line continues Eastward for 11,600' staying mainly in open water except for crossing 2 small marsh like peninsulas. Entering land at the intersection of Marsh Creek and Big Break the line continues East for 15,700', crossing Emerson Slough, Dutch Slough and a man made canal. The line ends in the Dutch Slough Gas Field 1500' East of the intersection of Sandmound Road and Bethel Island Road.

CALENDAR PAGE

MINUTE PAGE

215

3406

LINE SD 944: This line is located solely in Sacramento County. It is 3 miles in length and has a South to North orientation. The line begins on the South side of Sherman Island just East of the intersection of Mayberry Slough and the San Joaquin river. From that point the line continues North for .3 miles, making an open water crossing of 500' on Mayberry Slough before ending on the North side of the island.

LINE SD 945: This seismic line is located in Sacramento, Solano and Contra Costa County. It is 8.5 miles in length with a South to North orientation. It begins in the South on Lone Tree Way 500' East of the intersection of Empire Avenue and Lone Tree Way. The line extends Northward mainly through Orchards for 18,200'. It leaves land and enters Big Break just East of a marina. The line continues North for 8600' across the open waters of Big Break and the San Joaquin River. Entering over the improved levee banks of Sherman Island the line continue North over a variety of agriculture for 16,000'. Leaving Sherman Island's improved levees it makes a 1000' water crossing over Horseshoe Bend and enters Decker Island. The water crossing is over open water with a minimum of contact with aquatic vegetation. The line enters Decker Island over unimproved levees and terminates on it's North side.

LINE SD 946: The line is 11 miles in length crossing parts of Contra Costa and Sacramento county in a South to North direction. Starting in the South the line begins at the intersection of Marsh Creek and the Southern Pacific Railroad. The line extends North for 23,700' crossing mainly orchards and through a marsh area for a 1000' in the North. The line then enters Big Break extending in open water for 6300' and crossing a narrow tule island before entering Jersey Island over it's improved levee banks. The line then extends across the pasture lands of Jersey Island for 3500' leaving over improved levees, crossing the San Joaquin River and entering Sherman Island. This water crossing is 5000' in length and mainly in open water, except for a 800' crossing over a tule berm just south of Sherman Island. After entering over the improved levees of Sherman Island the line extends 20,000' across the island's varied agriculture. The line ends on the North side of Sherman Island just South of the intersection of the Sacramento River and Three Mile Slough.

SD 947: This line is 16.5 miles in length. It runs in a North to South direction and is located in Sacramento and Contra Costa county. The line begins on Hwy 160 6500' North of it's intersection with Hwy 12. The line continues South across the varied agriculture of Brannan Island for 17,100', making several narrow open water crossings of Tomato Slough. The line the exits Brannan Island over improved levees making a 150' open water crossing on Seven Mile slough before entering Twitchell Island.

The line enters over improved levees and extends across the horticulture of Twitchell Island for 9200'. The line then makes a 200' water crossing on the San Joaquin River. The entry and exit from the water is over improved levees and with the exception of a small tule berm encountered on the North side of Bradford Island the water crossing is of an open water nature. Upon entering Bradford Island the line extends Southward for 12,700' across active and inactive agricultural concerns. The line enters and exits over improved levees making an 800' open water crossing on the False River before entering Jersey Island.

Extending across the pasture lands of Jersey Island for 4100' the line enters Taylor Slough making a 300' open water crossing over improved levees. Upon entering Bethel Island the line extends to the South over range land for 4300'. It then reenters Jersey Island after making a 700' open water crossing on Taylor Slough over improved levees on either side. Continuing over the pasture land of Jersey Island for 5200' the line makes a 500' open water crossing on Dutch Slough. The line continues South for an additional 31000' crossing the Contra Costa Canal and reaching it's end point on Balfour Road 4000' East of it's intersection with Sellers Avenue.

SD 948: This line is 18 miles in length with a North to South orientation. It is located entirely in San Joaquin County. The line begins in the North on New Hope Tract 3600 North of Walnut Grove Road. It continues South from that point crossing Walnut Grove Road 6000' East of it's intersection with Interstate Hwy 5. The line continues South across a variety of agriculture, traversing New Hope Tract for a total of 11,400'. Leaving across and entering over improved levees the line makes a 300' open water crossing on Beaver Slough before entering Brack Tract. Once on Brack Tract the line continues South across different types of tillage for 10,300', until making an open water crossing of 750' on Sycamore Slough. The line exits and enters the water over improved levees. Maintaining it's Southerly direction the line transects the agrarian concerns of Terminus Tract for 20,500' before entering White Slough. The White Slough crossing is 1400' in length, over improved levees on either side and across open water except for a narrow tule island encountered in the center of the slough. On land again the line continues for 13,000' across the agriculture of King Island, making a 1700' water crossing over Disappointment Slough and entering Rindge Tract. This water crossing is over improved levees on either side and through a series of tule islands and berms. The line then continues across the agriculture of Rindge Tract for an additional 15,400', before making a 800' open water crossing over the San Joaquin River and entering Roberts Island. The line continues South over the horticulture of Roberts Island for 10,000' before ending as designated on the map.

SD 949: This line has a North to South orientation. It is 17.5 miles in length and located entirely in San Joaquin County. The line begins in the North on the West section line of section 12 T4N R6E, just South of the Mokelumne River. It continues to the South across vineyards and other agricultural concerns for 39,000', crossing Interstate Hwy 5 6000' South of the intersection of Hwy 5 and Hwy 12. It continues Southward over a variety of agriculture, crossing Bishop Tract and making a 400' water crossing on Disappointment Slough before entering Salina Tract. The crossing is over improved levees and through open water and over a small tule island located in the center of the slough. Continuing for 7700' across the tillage of Salina Tract the line makes a 400' open water crossing over Fourteen Mile Slough prior to entering Rindge Tract. The line then extends across Rindge Tract's agriculture for 4000' before again crossing Fourteenmile Slough and continuing onto the Wright Tract. The second Fourteenmile slough crossing is over improved levees, across open water and a tule island located in the center of the slough. Still heading South the line crosses the agriculture of Wright and Elmwood Tract for 8200'. It then makes a 700' open water crossing over the San Joaquin River before entering Roberts Island. The line extends 7100' across a variety of agriculture, crossing House Road 3800' East of it's intersection with Inland Drive. The line ends on Roberts Island 2200' South of House Road.

SD 950: This line has a Northeast to Southwest designation. It is 15.5 miles in length and located in San Joaquin and Sacramento counties. Beginning in the Northeast the line starts on the West side of Interstate Hwy 5 1400' North of it's intersection with Walnut Grove Road. The line heads to the Southwest across the agriculture of New Hope Tract for 15,700' making a 300' open water crossing over the South Mokelumne River and entering Staten Island. Transecting the tillage of Staten Island for 18,200', the line then crosses the open water of the North Mokelumne River for 500' and enters Tyler Island. The line continues for 21,800' across a variety of Agriculture located on Tyler Island. The line then makes a 300' and 600' open water crossing of the Georgiana Slough, crossing 600' of land on Andrus Island in between. At this point the line continues Southwest for 1300' over the agriculture located on Tyler Island making a 600' open water crossing of the Georgiana Slough and entering Andrus Island. Once on Andrus Island the line extends across the various tillage for 7400', making a 800' crossing of Jackson Slough and extending an additional 11,400' across Brannan Island. The line leaves Brannan Island making a 1500' open water crossing on Sevenmile Slough and enters Twitchell Island. The line extends 8600' across the agriculture of Twitchell Island, ending on the East side of Phreemide Slough 3600' South of it's intersection with Sevenmile Slough.

SD 949: This line has a North to South orientation. It is 17.5 miles in length and located entirely in San Joaquin County. The line begins in the North on the West section line of section 12 T4N R6E, just South of the Mokelumne River. It continues to the South across vineyards and other agricultural concerns for 39,000', crossing Interstate Hwy 5 6000' South of the intersection of Hwy 5 and Hwy 12. It continues Southward over a variety of agriculture, crossing Bishop Tract and making a 400' water crossing on Disappointment Slough before entering Shilma Tract. The crossing is over improved levees and through open water and over a small tule island located in the center of the slough. Continuing for 7700' across the tillage of Shilma Tract the line makes a 400' open water crossing over Fourteen Mile Slough prior to entering Rindge Tract. The line then extends across Rindge Tract's agriculture for 4000' before again crossing Fourteenmile Slough and continuing onto the Wright Tract. The second Fourteenmile slough crossing is over improved levees, across open water and a tule island located in the center of the slough. Still heading South the line crosses the agriculture of Wright and Elmwood Tract for 8200'. It then makes a 700' open water crossing over the San Joaquin River before entering Roberts Island. The line extends 7100' across a variety of agriculture, crossing House Road 1800' East of it's intersection with Inland Dike. The line ends on Roberts Island 2200' South of House Road.

SD 950: This line has a Northeast to Southwest designation. It is 15.5 miles in length and located in San Joaquin and Sacramento counties. Beginning in the Northeast the line starts on the West side of Interstate Hwy 5 1400' North of it's intersection with Walnut Grove Road. The line heads to the Southwest across the agriculture of New Hope Tract for 15,700' making a 300' open water crossing over the South Mokelumne River and entering Staten Island. Transsecting the tillage of Staten Island for 16,200', the line then crosses the open water of the North Mokelumne River for 500' and enters Tyler Island. The line continues for 21,300' across a variety of Agriculture located on Tyler Island. The line then makes a 300' and 600' open water crossing of the Georgiana Slough, crossing 600' of land on Andrus Island in between. At this point the line continues Southwest for 1300' over the agriculture located on Tyler Island making a 600' open water crossing of the Georgiana Slough and entering Andrus Island. Once on Andrus Island the line extends across the various tillage for 7400', making a 100' crossing of Jackson Slough and extending an additional 11,400' across Brannan Island. The line leaves Brannan Island making a 150' open water crossing on Sevenmile Slough and enters Twitchell Island. The line extends 8600' across the agriculture of Twitchell Island, ending on the East side of Threemile Slough 3600' South of it's intersection with Sevenmile Slough.

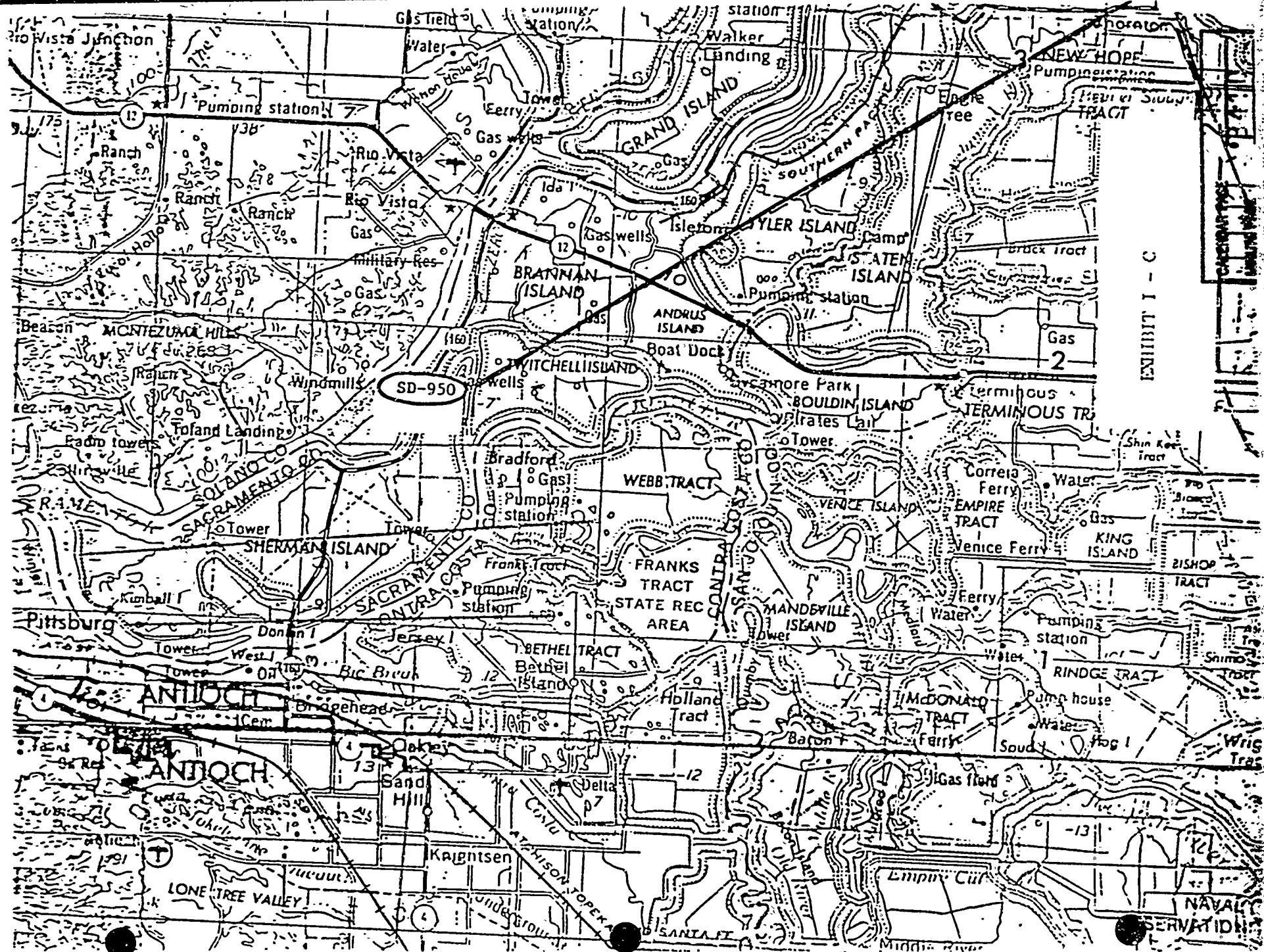


EXHIBIT III - MODE OF OPERATIONS

The energy source utilized for this project shall be dynamite. The majority of the project will use the down hole phonyx system. This requires the drilling of data collection points along the seismic line location at an interval of 165'. Each data collection point will be 50' in depth with a phonyx phone (a sensing device) and a 6 lbs. charge placed at the bottom of each hole. The only exceptions to this procedure are as may be required by California Department of Fish and Game and as illustrated in Exhibit IV Operations in The Vicinity of Levees. Every hole shall be satisfactorily plugged following OSHA, California Oil and Gas Commission and local government standards.

In areas where the geophysical data shows little or no effect due to the peat soil a mini hole energy method may be used. This method will involve the drilling of nine 5' hole, each loaded with a 1/3 lbs. charge. This pattern of drill holes will be repeated every 330'. Instead of a phonyx phone a set of geophones will be placed on the surface of the ground at each data collection point.

CGG shall employ the use of two different recording systems, depending on need and availability. The majority of the seismic data will be collected with the Myriaseis Recording System. This system is a radio telemetry system, where the seismic signal generated by the geophones or phonyx phone will be transmitted to the recording device by a series of Telemetry Sending Units (TSU). Each TSU consists of a microprocessor and transmitter, encased in a 30" high, watertight, metal cylinder weighing 22 lbs and equipped with an antenna. A TSU will be stationed at each data collection point and will be connected to either a phonyx phone or a geophone set. The TSU will be fitted with a tripod on land and buoy in the water. This system allows the seismic signal to be transmitted by radio frequency, alleviating the need for seismic cable.

The second recording system CGG will be using is the Sercel SN 348 Telemetry System. This is a cable based telemetry system. The 348 system consists of a series of interconnected station units, seismic cables and either surface geophone sets or down hole phonyx phones. The station unit is a box 8" square and 8" tall, which digitizes the seismic signal received from the geophones or phonyx phone and transmits that signal via cable to the main recording instrument.

The majority of the project area will be situated on agricultural lands under private ownership. CGG's operations on land will consist of the use of buggy mounted drills, ATV's, pickup trucks used primarily as support vehicles and some use of helicopter for the transportation of equipment and personnel.

Operations in waterways, marsh lands and other bodies of water will be conducted mainly by boat. Either large 30' flat bottom steel work boats, aluminum skiffs or zodiacs will be used. At times a helicopter may also be used to transport equipment and personnel. All of the drilling will be accomplished by pontoon drill. For the majority of the project the drill will operate as a self powered unit. It may be necessary in some marsh areas to use an amphibious marsh vehicle to tow the drilling pontoon into place and to transport personnel and equipment.

For all water crossings either a TSU or station unit/cable combination will be placed at each data collection point. This equipment will be connected to a down hole phonyx phone or weighted geophone. The equipment will be placed by hand from available boats. In some areas an amphibious marsh vehicle may need to be used to place the recording equipment.

In some cases where a narrow water crossing is encountered and a boat is not already launched, it will be necessary to hand carry from a pickup truck on the levee a 12'-15' aluminum boat to transport the recording equipment into the water. This process should cause no alteration to the levee or stream bed.

All necessary permits will be obtained from and all operations in the water will be coordinated with the California State Department of Fish and Game. All boats and other amphibious equipment shall enter and exit the water at approved locations. Amphibious equipment use in marsh areas will be coordinated with Department of Fish and Game and subject to their approval. A Fish and Game representative shall be present during the detonation of any charge located in the water and for any other stages of the operation if deemed necessary.

STATION: 1-100-3
NOISE: 1-100-3
GEOL: 1-100-3

EIR/NOTICE MAILING LIST

W 6005-12

*Honorable John Garcamendi
Member of the Senate 5th District
California State Legislature
State Capitol, Room 4076
Sacramento, CA 95814

*Honorable Patrick Johnston
Member of the Assembly 26th District
California State Legislature
State Capitol, Room 4112
Sacramento, CA 95814

* Solano County
Board of Supervisors
Old Courthouse
Fairfield, CA 94533

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

Hon Lloyd G. Connelly
Assemb. 6th Dist
Rm 2176

Hon. Robert Campbell
Assemb. 11th Dist.
Rm. 2163

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- ④ Stockton Record

Addresses on Legal Notice Mailing

Hon LEROY GREENE
Senate 6th Dist
Rm 3082

Hon. DANIEL BONTWRIGHT
Senate 7th Dist
Rm 3086

*NOTE: An asterisk indicates that a copy of the environmental document should be sent in addition to the notice.

✓ *Martha Valdes
Senate Office of Research
1100 J Street, Suite 650
Sacramento, CA 95814

✓ *Michael Shapiro, Senior Consultant
Senate Committee on Energy and Public
Utilities
State Capitol, Room 2035
Sacramento, CA 95814

✓ *Jeffrey Arthur, Consultant
Senate Committee on Natural
Resources and Wildlife
State Capitol, Room 2031.
Sacramento, CA 95814

✓ *Assembly Natural Resources Committee
State Capitol, Room 2136
Sacramento, CA 95814

~~*Commander, 11th Coast Guard District(m)
Union Bank Building
400 Ocean Gate
Long Beach, CA 90802
(So. Cal. ocean related items only)~~

✓ *Scott Brown
Land Department, Room 500
Pacific Gas & Electric Company
P.O. Box 7444
Sacramento, CA 95826

✓ *Robert Collins
Office of Attorney General
3580 Wilshire Boulevard
Los Angeles, CA 90010

*N. Gregory Taylor
Office of Attorney General
3580 Wilshire Boulevard
Los Angeles, CA 90010

~~*Don Hoagland (Geothermal only)~~

✓ The California Development Bulletin
P.O. Box 715
Mariposa, CA 95338

✓ Terry Trumbull
Lawrence/Trumbull Associates
101 University Avenue, 2nd Floor
Palo Alto, CA 94301-1638

Applicant

* CGG American Services, Inc.
P.O. Box 488
Thornton, CA 95686

Center Costa County
Board of Supervisors
651 PINE ST., RM. 106
MARTINEZ, CA 94553

SACRAMENTO COUNTY
Board of Supervisors
700 "H" ST ST# 2450
SAC, CA 95814

SAN JOAQUIN COUNTY
Board of Supervisors
222 E WEBBER AVE
Stockton, CA Rm. 701
95202

CALENDAR PAGE	225
MINUTE PAGE	3416

*The Resources Agency
1416 Ninth Street
Sacramento, CA 95814

*Office of Planning & Research (10 copies)
State Clearinghouse
1400 Tenth Street, Room 121
Sacramento, CA 95814

*U.S. Fish & Wildlife Service
Division of Ecological Services
2809 Cottage Way, Room E-1803
Sacramento, CA 95825

*U.S. Fish & Wildlife Service
24000 Avila Road
Laguna Niguel, CA 92677
Attn.: John C. Wolfe

*Mike Shoaff
P.O. Box 6854
Santa Rosa, CA 95406

*Emmet E. Wolter
The Wolter Associates
337 E. San Antonio Drive, #203
Long Beach, CA 90807

*San Diego Gas & Electric Company
925 L Street
Sacramento, CA 95814
Attn.: Jim Cassie

* _____ County
Planning Department

FOR LONG BEACH EIR/ND ONLY

*Environmental Protection Agency
215 Fremont Street
San Francisco, CA 94105
Attn.: EIS Review (P-5, Federal Activities Branch)

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(Where Applicable)

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3418

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State Water Resources Control Board
Division of Water Quality
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Sacramento, CA 95801
(916)445-9552

Dave Beringer
State Water Resources Control Board
Delta Unit
P.O. Box 2009
Sacramento, CA 95810
(916)322-9870

REGIONAL WATER QUALITY CONTROL BOARDS

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Santa Rosa, CA 95401
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Oakland, CA 94607
(415)464-1255

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San Luis Obispo, CA 93401
(805)549-3147

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San Diego, CA 92120
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(916)225-2300

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Rancho Cordova, CA 95670
(916)355-0922

B. Hunter, Regional Manager
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7320 Silverado Trail
Napa, CA 94558
(707)944-2011

G. Nokes, Regional Manager
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1234 East Shaw Avenue
Fresno, CA 93710
(209)222-3761

F.A. Worthley, Jr., Regional Manager
Dept. of Fish & Game-Region V
245 West Broadway, Suite 350
Long Beach, CA 90802
(213)590-5113

Rolf E. Hall
Marine Resources
245 West Broadway, Suite 350
Long Beach, CA 90802
(213)590-5155

.....

OTHER

Dept of Fish & Game
Bay Delta Fisheries Project
4061 N. Wilson Way
Stockton, CA 95205

Commanding Officer
U.S. Coast Guard
Marine Safety Office
Bldg 14, Coast Guard Island
Alameda, CA 94501

U.S. Army Corps of Engineers
211 Main St.
San Francisco, CA 94105-1905

... MTN: Calvin C. Fong
Chief, Regulatory Branch

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Environ. MGT Dept
County Courthouse
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Fairfield, CA 94501

Solano County Fire WA
Continous Annex
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Fairfield, CA 94533

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Sacramento, CA 95811

Contra Costa County
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Martinez, CA 94533

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Antioch Development
Services Dept
P.O. Box 130
Antioch, CA 94509

Lodi Planning Comm
Call Box 3006
Lodi, CA 95241

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3419
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DUBLIN, CA 94568

Exhibit "C"

November 16, 1988

CGG LAND SEISMIC
A DIVISION OF CGG AMERICAN SERVICES, INC.
CGG Crew 0524
P.O. Box 397
Rio Vista, CA 93453

Ms. Susan Livenick
State Lands Commission
245 West Broadway, Suite 425
Long Beach, CA 90802-4471

Dear Ms. Livenick:

Subject: Geophysical Survey - Sac Delta Phase IV
File Reference W-6005.12

Contact has been made with all the local agencies involved in our current project, and a letter of approval or permit has been obtained from each. Some of the documentation will be sent direct to your office.

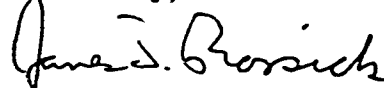
The following is a list of the information enclosed within.

- San Joaquin County Public Works Encroachment Permit
- San Joaquin Local Health District Permit
- Sacramento Explosives Permit and Amendment
- Sacramento County Public Works Encroachment Permit

All of the above permits are in force, with the exception of the Sacramento County Encroachment Permit. That permit has been approved, but awaits payment of the \$200 fee before it is valid.

This should fulfill your request for additional information, and complete our current permit application. Please contact me at (707) 374-6855 if there are further questions, or if any of the information sent direct to you has not reached your desk.

Sincerely,



James F. Prossick
CGG Permit Agent

JFP/foz

Enclosures

699 HAMPSHIRE ROAD
SUITE 100A
WILSON LAKE VILLAGE, CALIFORNIA

805 496-4311

CALENDAR PAGE	229
MINUTE PAGE	3420



November 9, 1988

CGG LAND SEISMIC
A DIVISION OF CGG AMERICAN SERVICES, INC.
CGG Crew 0524
P.O. Box 397
Rio Vista, CA 93453

Sacramento County Sheriff's Dept.
711 G Street
Sacramento, CA 95814

Attention: Sgt. R. Howell #12

Gentlemen:

Subject: Explosives Permit No. 105-88

CGG would like to amend its current permit to include additional geophysical work within Sacramento County. A map of the proposed work is included within.

This project will involve the drilling of 50' shot holes, with a 5 lbs. charge placed in each hole. We plan to begin work on or about November 30th, 1988.

If there are any further questions regarding this project, please contact me at (707) 374-6855.

Sincerely,

James F. Prossick
CGG Permit Agent

JFP/foz

Enclosure

699 HAMPSHIRE ROAD
SUITE 00A
SACRAMENTO VILLAGE, CALIFORNIA
95811

805 496 4311

CALENDAR PAGE	230
MINUTE PAGE	3421

SACRAMENTO COUNTY SHERIFF'S DEPARTMENT
711 G Street, Sacramento, California

EXPLOSIVES PERMIT

Permit No. 105-88

New
Renewal

Fingerprint No. _____

Application Date 4-3-85

Permit Date 9-28-88

(Min. 7 day waiting period)

1. Permittee:

Name PROSSICK, James Frank
(Last) (First) (Middle)

Address P.O. Box 488, Thorton, Ca. 95686 Phone No. 209-794-2382
Street City

Representing: C.G.G. Land Seismic Phone No. 209-794-2382

Address 699 Hampshire Road, Suite 100A, Westlake, Ca. 91361
Street City State Zip Code

Driver Lic. # C3164453 State Calif. Expiration Date 1990

Social Security # 062-54-2528 Date of Birth 5-22-58

2. Transport Vehicle:

Make Ford Model P/U Yr. 1984 License No. 2J31801 State Ca.

Travel Route & Safe Stopping Places Approved

3. Activity:

Manufacture Store Receive and/or Transport Use Sell or Dispose

Restrictions Store, transport, and use in seismic operations.

4. Material:

Type of Explosives Vibro-Gel Quantity 100+ lbs

Location of storage Off Lambert Rd., near I-5

Type of storage Approved Class A

How and/or where used Seismic exploration within Sacramento County

I, the undersigned, certify that I understand and will abide by all Federal, State and local laws, ordinances, rules or orders to perform those acts noted herein. I also understand that all unused inventory covered by the permit on or before the expiration date will be disposed of in the following manner:

- (1) Returned to source
- (2) Totally destroyed
- (3) Turned over to the authority issuing the permit or reapply for a new permit.

XPLU 10.00
TUIL 10.00
CASH 20.00
CHNG 10.00

X Owen D. Gray for Jim Prossick
Signature 09/30/88

3526A001

APPROVAL

This permit is granted on 9-28-88 to perform those activities noted above, and will expire 9-28-89 or until suspended or revoked.
(1 yr. max. from date of issue)

The permittee is limited to perform these activities as indicated times or during the tenure of the permit, subject to the conditions noted below. This permit is not transferable.

Sgt. R. HOWELL

ISSUING AUTHORITY 153

Distribution:

- (1) Permittee - White
- (2) 10 Copy - Green
- (3) State Bureau of CII, Sacramento - Yellow
- (4) Chief fire authority where explosives to be stored

CALENDAR PAGE 231
MINUTE PAGE 3422

APPLICATION FOR PERMIT
 SAN JOAQUIN LOCAL HEALTH DISTRICT
 1601 E. HAZELTON AVE., STOCKTON, CA
 Telephone (209) 466-6781
PERMIT EXPIRES 1 YEAR FROM DATE ISSUED
 (Complete in Triplicate)

Application is hereby made to the San Joaquin Local Health District for a permit to construct and/or install the work herein described. This application is made in compliance with San Joaquin County Ordinance No. 549 for sewage or No. 1862 for well/pump and the Rules and Regulations of the San Joaquin Local Health District.

Job Address Various San Joaquin Delta - See Map City _____ Lot Size _____ PM _____

Owner's Name CGG American Services Inc. Phone (707) 374-6855

Contractor SAME Address P.O. 397 Rio Vista License No. _____ Phone (707) 374-685

TYPE OF WELL/PUMP: NEW WELL WELL REPLACEMENT DESTRUCTION
 PUMP INSTALLATION SYSTEM REPAIR OTHER Seismic test hole
 DISTANCE TO NEAREST: SEPTIC TANK _____ SEWER LINES _____ DISPOSAL FLD. _____ PROP. LINE _____
 FOUNDATION _____ AGRICULTURE WELL _____ OTHER WELL _____ PITS/SUMPS _____

INTENDED USE	TYPE OF WELL	PROBLEM AREA	CONSTRUCTION SPECIFICATIONS	
<input type="checkbox"/> Industrial	<input type="checkbox"/> Open Bottom	<input type="checkbox"/> Manteca	Dia. of Well Excavation <u>5' / 50'</u>	Dia. of Well Casing _____
<input type="checkbox"/> Domestic/Private	<input type="checkbox"/> Gravel Pack	<input type="checkbox"/> Tracy	Type of Casing _____	Specification <u>Slurry/Coarse</u>
<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Delta	Depth of Grout Seal <u>5' / 50'</u>	Type of Grout <u>Bentonite SER</u>
<input type="checkbox"/> Irrigation	<u>5' / 50'</u> Approx. Depth	<input type="checkbox"/> Eastern	Surface Seal Installed by _____	
Repair Work Done <input type="checkbox"/>	Type of Pump _____	H.P. _____	State Work Done _____	<u>ATTACHMENT</u>
Well Destruction <input type="checkbox"/>	Well Diameter <u>2" / 4"</u>	Sealing Material (top 50') _____		
	Depth <u>5' / 50'</u>	Filler Material (Below 50') _____		

TYPE OF SEPTIC WORK: NEW INSTALLATION REPAIR/ADDITION DESTRUCTION (No septic system permitted if public sewer is available within 200 feet.)

Installation will serve: Residence _____ Commercial _____ Other _____

Number of living units: _____ Number of bedrooms _____

Character of soil to a depth of 3 feet: _____ Water table depth _____

SEPTIC TANK Type/Mfg _____ Capacity _____ No. Compartments _____

PKG. TREATMENT PLT. Method of Disposal _____

Distance to nearest: Well _____ Foundation _____ Property Line _____

LEACHING LINE No. & Length of lines _____ Total length/size _____

FILTER BED Distance to nearest: Well _____ Foundation _____ Property Line _____

SEEPAGE PITS Depth _____ Size _____ Number _____

SUMPS Distance to nearest: Well _____ Foundation _____ Property Line _____

DISPOSAL PONDS

I hereby certify that I have prepared this application and that the work will be done in accordance with San Joaquin county ordinances, state laws, and rules and regulations of the San Joaquin Local Health District.

Home owner or licensed agent's signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall not employ any person in such manner as to become subject to workman's compensation laws of California." Contractor's hiring or sub-contracting signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall employ persons subject to workman's compensation laws of California."

The applicant must call for all required inspections. Complete drawing on reverse side.

Signed X James F. Prossick Title: CGG PERMIT AGENT Date: 11/10/88
JAMES F. PROSSICK

FOR DEPARTMENT USE ONLY

Application Accepted by Adrian B. [Signature] Date 11/14/88 Area 01

Pit or Grout Inspection by _____ Date _____ Final Inspection by _____ Date _____

Additional Comments: _____

Stk 466-6781 Tel: 389-3621 Manteca 823-7104 Tracy 835-6385

Applicant - Return all copies to: Environmental Health Permit/Services 1601 E. Hazelton Ave., P.O. Box 2009, Stk., CA 95201

FEL INFO	AMOUNT DUE	AMOUNT REMITTED	CK # CASH	RECEIVED BY	DATE	CALENDAR PAGE	PERMIT NO.
	<u>025.00</u>						<u>233</u>
							<u>3424</u>

SAC DELTA PHASE IV

CGG agrees to follow all San Joaquin County Health Department drilling and plugging procedures. Those procedures are as follows.

5' holes east of I-5 will be plugged with gravel/natural fill.
 5' holes west of I-5 will be plugged with course bentonite.
 All 50' holes will be plugged using the slurry method.
 All water used in drilling will be potable "drinking" water.

Full time inspection will not be required if these procedures are followed.

30' hole or mini hole pattern will be drilled every 165' along the indicated line locations.

Work hopes to begin operations on September 30, 1988. Any questions call (707) 374-6855 or by mail - P.O. 397, Vista, CA 94571.

KEY
 5' holes in pink
 30' Hole pattern (9-5' holes) in blue.



CGG LAND SEISMIC
 A DIVISION OF
 CGG AMERICAN SERVICES, INC.

JAMES F. PROSSICK
 Permit Agent

(707) 374-6855

CALENDAR PAGE
 234
 3425

SACRAMENTO COUNTY DEPARTMENT OF PUBLIC WORKS
 827 - 7th ST., SACRAMENTO, CALIFORNIA
 PHONE 440-6544

PERMIT NO. 88-672
 MAINTAINED ROAD MAP NO. 003
 COORD. NO. _____

U.S.A. TICKET NO. _____

APPLICATION FOR ENCROACHMENT PERMIT

1. Application is made for permission to excavate, construct and/or otherwise encroach on county right of way by performing the work described below on: GEOPHYSICAL CABLE CROSSING

VARIOUS - SEE ATTACHED MAP LOCATIONS Between _____
(Name of Road) (Cross Roads or Address)

2. Estimated
- (a) Excavations: _____
Width Depth Length Type of surface to be cut
- (b) Conduit: _____
(Type PVC, Metal, etc) Diameter (Conveying water, gas, etc)
- (c) Other: _____
(Sidewalk, Sign, Driveway, etc) Description

3. Attach Plans to applications in quadruplicate
 4. Applicant must check with all Utility Companies serving the area covered by this permit, for location of existing underground pipes, conduits or cables
 5. Before starting work, the Permittee shall notify Sacramento County Construction Inspection, Phone (916) 366-2201, 24 hours in advance of the date work is to begin.
 6. Attention is directed to the General Provisions and Specific Conditions printed on the reverse side of this permit and to any Special Provisions attached hereto and made a part hereof.

In consideration of the granting of this application it is agreed by the applicant that the County of Sacramento and any officer or employee thereof shall be saved harmless by the applicant from any liability or responsibility for any accident, loss or damage to persons or property happening or occurring as the proximate result of any of the work undertaken under the terms of this application and the permit or permits which may be granted in response hereto and that all of said liabilities are hereby assumed by the applicant. It is further agreed that if any part of this installation interferes with the future use of the highway it must be removed or relocated, as designated by the Director of Public Works, at the expense of the applicant or their successor in interest.

Applicant: CGG American Services, Inc.
(Print Business Name)

Address: P.O. Box 397 Phone: (707) 374-6855
RIO VISTA CA (Zip) 94571

Signature: James F. Prosser
JAMES F. PROSSER

FOR USE BY UTILITY COMPANIES	
District: _____	Division: _____
Engineer: _____	Job No.: _____

SPACE FOR SKETCH OR COMMENTS:

Assessor Parcel No. _____

SEE ATTACHED

DEPARTMENTAL REVIEW	
County Water <u>11/15/88</u>	Highways <u>11-15-88</u>
Water Resources <u>11/15/88</u>	Water Quality <u>N/A</u>
Deposit: \$ _____	Code: 2980 055003
Permit Fee: \$ <u>200.00</u>	Code: 2900-9258 OSH0002900
Validation: _____	

- CONDITION
- BOND ON FILE
 - _____
 - _____
 - _____

Application approved subject to payment of fees, CONDITIONS OF WORK, and is revocable at any time.

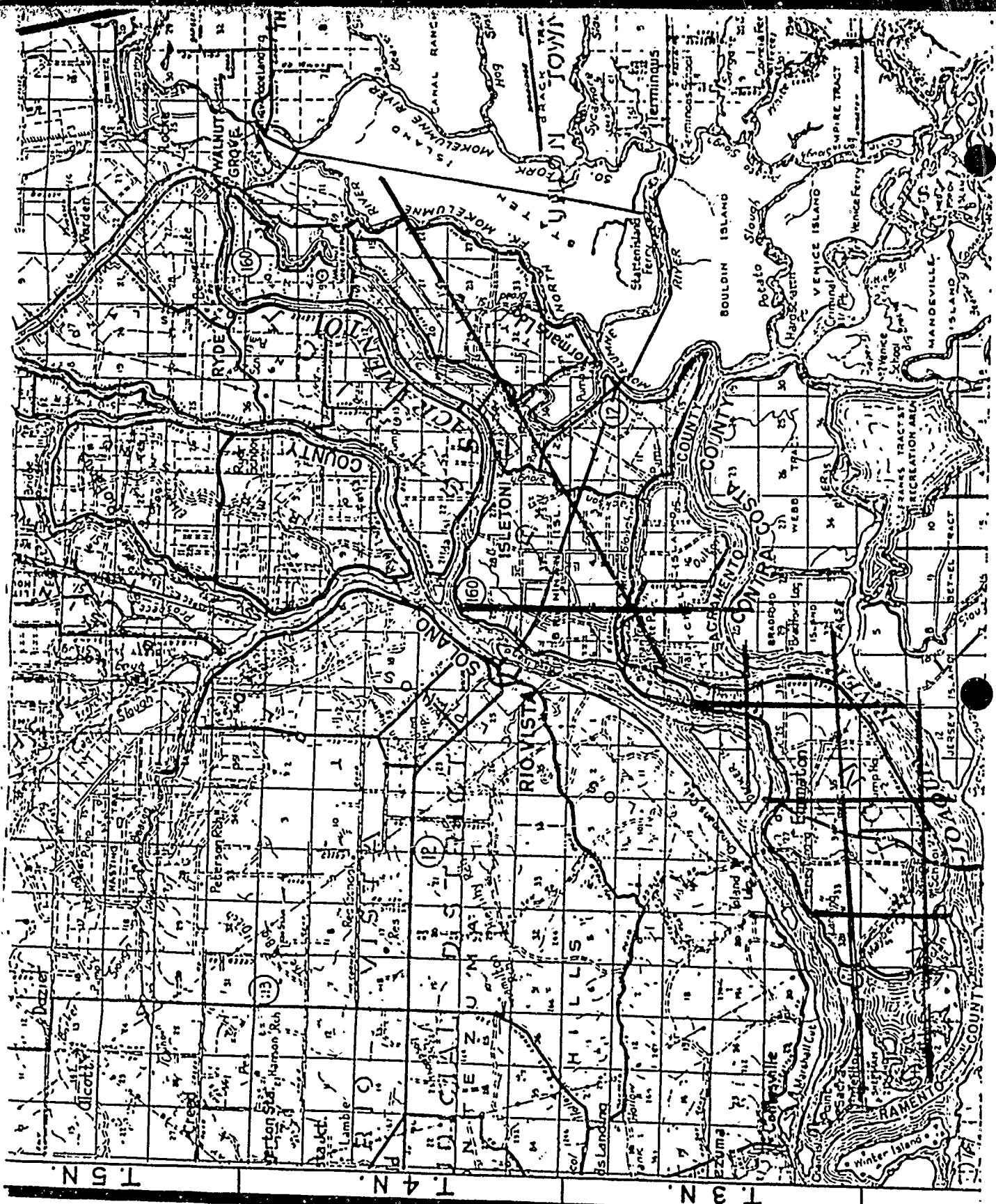
This permit is nontransferable and EXPIRES ONE YEAR from date issued.

D. M. FRALEIGH, Director of Public Works

By JAMES Date: _____, 19 _____

Inspector Approval _____

CALENDAR PAGE	<u>235</u>
MINUTE PAGE	<u>3426</u>



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AGREEMENT TO DO GEOPHYSICAL SURVEY WORK ON
ROAD RIGHTS OF WAY OF SAN JOAQUIN COUNTY

THIS AGREEMENT, made and entered into by and between the
COUNTY OF SAN JOAQUIN, a political subdivision of the State of
California, hereinafter referred to as "COUNTY", and CGG American
Services Inc., hereinafter referred to as "PERMITTEE".

I. PERMIT REQUIRED: No person shall conduct any survey for
the purpose of locating and studying underground deposits
of ores, minerals, oil, gas, or water on any street, high-
way, road, or other public place except upon application to
and permit granted by the Director or his designee.

II. INSPECTION FEES: Upon written authorization by the
Director, or his designee, the work of performing the
geophysical survey within the County right of way will be
permitted only under the condition that PERMITTEE agrees to
pay COUNTY on demand the cost of performing the necessary
field inspection of the work including incidental
expenses.

III. LIABILITY OF PERMITTEE:

A. The PERMITTEE shall abide by all laws, regulations and
rules, either Federal, State, Regional, County or
District.

B. All work shall be conducted at the risk and expense of,
and all damages, costs, or expense suffered or
incurred, thereby, will be paid by PERMITTEE, and
PERMITTEE will indemnify, defend and save COUNTY free
and harmless of and from any and all liability to, or

1 claims of others which may result from or in any way
2 arise out of, or in connection with project operations.

3 C. If it is determined by the Department of Public Works
4 that said roads or underground facilities in the said
5 roads are damaged as a result of the operations of
6 PERMITTEE, PERMITTEE shall pay to COUNTY, on demand,
7 the cost of all repairs to all damaged facilities
8 located within the road right of way. In case of
9 emergency, COUNTY has the right to repair all damaged
10 facilities immediately at the expense of PERMITTEE.

11 D. The PERMITTEE shall furnish a certificate to COUNTY
12 indicating that PERMITTEE has, and is maintaining,
13 liability insurance, insuring against legal liability
14 for bodily injuries and death, and for damages to
15 property in the amount of \$1,000,000.00. An additional
16 insured endorsement to PERMITTEE'S liability insurance
17 policy naming COUNTY, its officers and employees as
18 additional insureds, shall be furnished COUNTY. The
19 above insurance shall be of the broad form coverage
20 type.

21 IV. PROPERTY OWNERS PERMISSION: Permission shall be obtained
22 by PERMITTEE from the owners of fee title in the form of
23 signed letters of consent from abutting property owners on
24 each side of all roads, or segments thereof, or a notarized
25 affidavit from the PERMITTEE attesting that permission has
26 been obtained by PERMITTEE from abutting property owners on
27 each side of all roads, or segments thereof, authorizing

1 such geophysical operations, filed by the PERMITTEE with
2 the Director or his designee, prior to the issuance of the
3 permit.

4 V. SHOT METHOD: PERMITTEE shall abide to the following
5 conditions when shot method is employed:

6 A. Prior to issuance of permit from Director or his
7 designee PERMITTEE must first obtain clearance from the
8 Sheriff's Department for the use and storage of
9 explosives.

10 B. Prior to issuance of permit from Director or his
11 PERMITTEE must first obtain clearance from the San
12 Joaquin Local Health District for the drilling of shot
13 holes.

14 C. All holes shall be refilled with clay or grout and the
15 existing facilities shall be repaired with material
16 equal to or better in quality and quantity.

17 This Agreement shall be effective for not more than one (1)
18 year after the date hereof. It may be revoked without notice
19 upon violation of any of its conditions.

20 The undersigned has read and understands and does hereby
21 agree to abide by the conditions as stated in this Agreement.

22 /////
23 /////
24 /////
25 /////
26 /////
27 /////

1 IN WITNESS WHEREOF, the parties have executed this Agreement
2 the day and year first written above.

3
4 Recommended for Approval:
5
6 Manuel Lopez
7 MANUEL LOPEZ
8 Deputy Director

9 COUNTY OF SAN JOAQUIN, a
10 political subdivision of
11 the State of California
12 Henry M. Hirata Date: 10/27/88
13 HENRY M. HIRATA
14 Director of Public Works

OGG American Services Inc.

(Company name)
505 Community Lane

(Mailing address)
Woodland, CA. 95695

(City, State, Zip Code)

(916) 662-8652

(Telephone number)
James F. Prossick Date: 10/11/88

(Signature of Representative)
James F. Prossick
Permit Supervisor Pacific Coast Division

(Print name and title of
Representative)

"COUNTY"

"PERMITTEE"

14 E ME-PS-AGS

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JOHN ZUNINO
Sheriff-Coroner

OFFICE OF
SHERIFF-CORONER

COUNTY OF SAN JOAQUIN

COURTHOUSE
STOCKTON, CALIFORNIA
TELEPHONE 209/944-2181

November 18, 1988.

Mrs. Susan Livenick
State Land Commission
245 W. Broadway, Suite #425
Long Beach, California 90802-4471

Dear Mrs. Livenick:

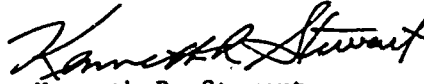
This letter is to advise you that CGG Land Seismic, Inc. may be issued an explosive permit to do seismic exploration work in our county if the proper applications are filed and all other requirements are met.

If you have any questions, please feel free to contact this office.

Assuring you of our continued cooperation in this and all matters of mutual concern.

Sincerely,

JOHN ZUNINO
Sheriff-Coroner


Kenneth R. Stewart
Undersheriff

KS:DH

C: CGG Land Seismic, Inc.

CALENDAR PAGE	241
MINUTE PAGE	3432

Contra
Costa
County

Public Works Department

255 Glacier Drive
Martinez, CA 94553-4897

November 14, 1988

J. Michael Walford
Public Works Director

Milton F. Kubcek
Deputy Director

Maurice E. Mitchell
Deputy Director

Susan Livenick
State Land Commission
245 West Broadway, Suite 425
Longbeach, CA 90802-4471

ES-Encroachment Permit, Seismic Work

Dear Ms. Livenick:

We are writing at the request of CGG American Services, Inc. in regard to our policy for issuance of encroachment permits for seismic work in Contra Costa County road right of way, in the unincorporated areas. We routinely issue encroachment permits for the temporary installation of cables along and across County maintained roads. A permit will be issued to CGG American Services, Inc. when they apply.

If you have any questions, please contact Ed King at 646-4470, extension 348.

Very truly yours,


James E. Causey
Assistant Public Works Director
Engineering Services Division

JEC/EK/dr
pr:seismic.t11

cc: James Prossick CGG American Services, Inc.
Ed King, Permit Engineer

CALENDAR PAGE	242
MINUTE PAGE	3433

DEPARTMENT OF EMERGENCY SERVICES

FRANK J. SCHOBER, JR., ASSISTANT DIRECTOR
600 TEXAS STREET
FAIRFIELD, CA 94533

24 HOUR PHONE 707.425.5470
BUSINESS PHONE 707 429 6506

EMERGENCY SERVICES DIVISION
EMERGENCY MEDICAL SERVICES
COMMUNICATIONS DIVISION
FIRE WARDEN'S OFFICE



November 14, 1988

Ms. Susan Livenick
State Lands Commission
245 West Broadway, Suite 425
Long Beach, CA 90802-4471

Dear Ms. Livenick,

CGG has notified our office of its intent to obtain an Explosives Permit for its upcoming geophysical survey.

Once the request is filed, it will take about one week to process the permit. We are familiar with geophysical operations and have no problem in issuing a permit, as long as all the necessary requirements are followed.

We have had a good working relationship with CGG in the past and expect the same in the future.

If there are any further questions, please contact me at (707) 429-6506.

Sincerely,

Frank J. Schober, Jr.
Frank J. Schober
Assistant Director

FJS/mo

cc:James Prossick

CALENDAR PAGE	243
MINUTE PAGE	3434



October 26, 1988

CGG LAND SEISMIC
A DIVISION OF CGG AMERICAN SERVICES INC

CGG Crew 0524
P.O. Box 397
Rio Vista, CA 93453
(707) 374-6855

Ms. Pat Perkins
Department of Fish and Game
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670

Dear Ms. Perkins:

Subject: Negative Declaration CGG Sac Delta Phase IV.

Thank you for taking the time to meet with me this morning. The points we discussed and agreed to are summarized below.

- * There shall be no geophysical testing within the boundaries of the Sherman Island Waterfowl Management Area, during the months of October through March. A map has been enclosed, illustrating the routes of CGG's seismic lines in the refuge.
- * As stated in the Negative Declaration, CGG's operations in the water and marsh areas shall be coordinated with DFG and a DFG representative shall be present during any detonations in the water.
- * Dow Chemical has given clearance for CGG's activities on Lower Sherman Island. A copy of that letter is included.
- * All holes located in the water or marsh areas and loaded with a charge shall be drilled to a depth of 100 feet.
- * Presently, there are no plans to cross DFG's properties located on Brack Tract. A map has been provided, detailing our seismic line location and the DFG property boundaries. Any intrusion into those areas is subject to written consent from your office.

The above guidelines will be followed by CGG throughout the course of operations on Sac Delta Phase IV. These points should answer the concerns raised in DFG's October 6th, memo and those mentioned in the meeting today.

9 HAMPSHIRE ROAD
SITE 100A
ESTLAKE VILLAGE, CALIFORNIA
9561

5496-4311

CALENDAR PAGE

244

MINUTE PAGE

3435



Ms. Pat Perkins

-2-

October 26, 1988

If you agree, please respond in writing to CGG's Rio Vista Office. It will be necessary to send a copy of your letter to State Lands' representative, Dan Cohen. A quick response would make it possible for CGG to be included in the November meeting of the State Lands Commission.

I appreciate your help in resolving these issues and moving CGG's permit procedure forward. If any additional information is required, contact me at (707) 374-6855.

Sincerely,

James F. Prossick
CGG Permit Agent

JFP/foz

PC: Dan Cohen

- Enclosures:
1. October 6th DFG memo
 2. Map of Sherman Island Waterfowl Refuge
 3. Dow Chemical Letter
 4. Map of seismic line location on Brack Tract

CALENDAR PAGE
MINUTE PAGE

245
3436

Memorandum

Date : October 6, 1988

1. Projects Coordinator
Resources Agency
2. Mr. Dan Cohen
State Lands Commission
1807 13th Street
Sacramento, CA 95814

From : Department of Fish and Game

Subject : Negative Declaration, CGG Sacramento Delta Phase 4 Geophysical Survey, SCH 88092603

The California Department of Fish and Game (DFG) has reviewed the State Lands Commission's Proposed Negative Declaration for the continuation of CGG's geophysical survey for natural gas deposits. The project is located in the Sacramento-San Joaquin Delta and involves 140 miles of test lines.

The DFG would agree to a declaration of "no significant effects on the environment" providing the following mitigation measures are incorporated:

1. The project shall be rescheduled to exclude the peak wintering period for waterfowl. No testing shall be conducted during the period of October through March, in order to avoid adverse impacts to wintering waterfowl.
2. Operation of tests in the water or in marsh areas will be coordinated with the DFG.
3. A DFG representative shall be present during detonation of charges in the water.
4. That CGG has clearance from the DFG that any charges, particularly on Lower Sutter Island, will not threaten their two underground gas lines, since damage to these gas lines could cause additional impacts to fish and wildlife resources.

If the project sponsor will not agree to the incorporation of the above mitigation measures as conditions of the Negative Declaration, then we recommend that a full Draft Environmental Impact Report be prepared.

For further information and assistance, please contact James D. Messersmith, Regional Manager, Region 2, 1701 Nimbus Road, Suite A, Rancho Cordova, CA 95670, (916) 355-0922.

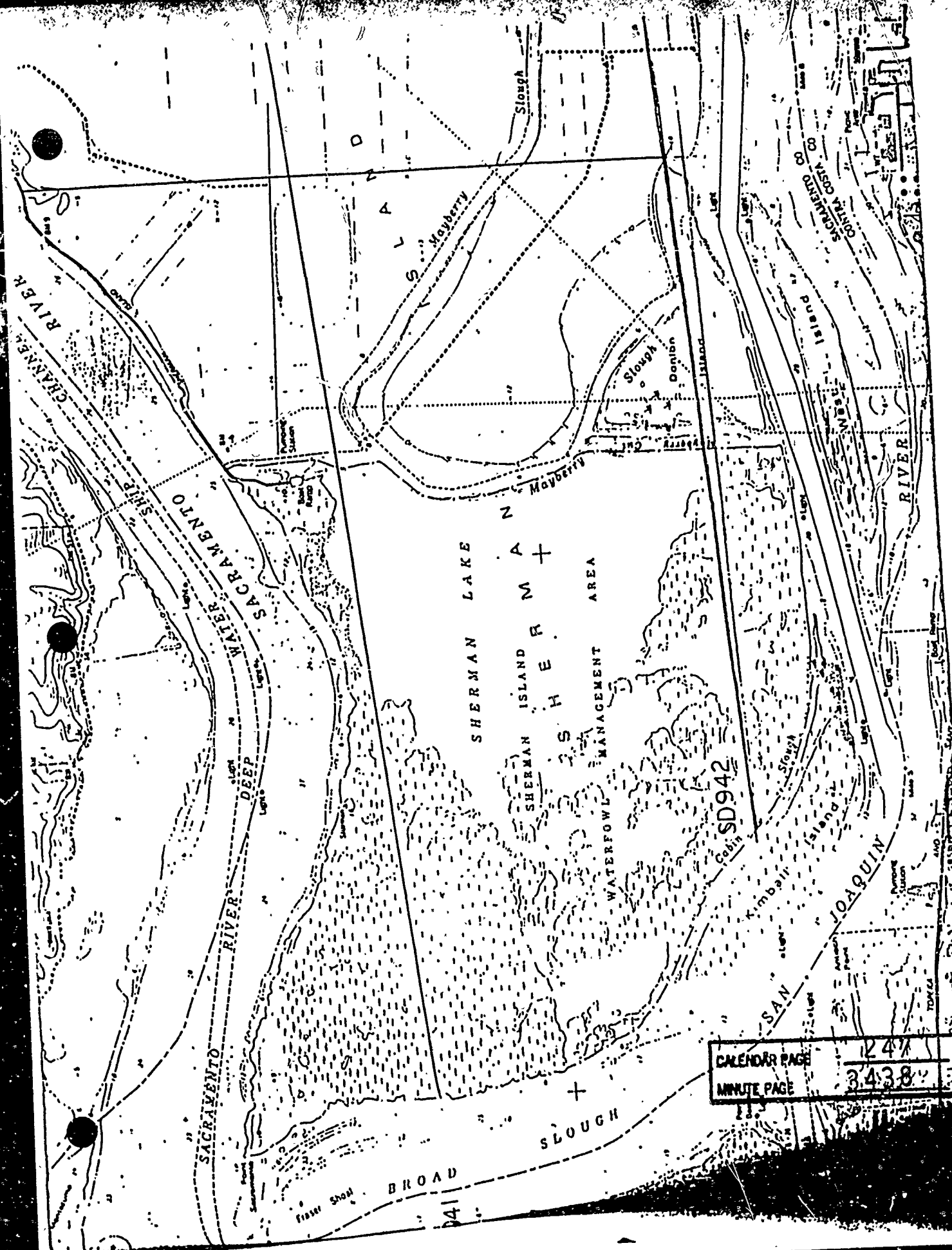
Pete Bontadelli
Director

CALENDAR PAGE

246

MINUTE PAGE

3437



CALENDAR PAGE	1247
MINUTE PAGE	3438

SD942

SHERMAN ISLAND WATERFOWL MANAGEMENT AREA

D
A
L
S

SHERMAN LAKE

SAN JOAQUIN RIVER

SACRAMENTO RIVER

CHANNEL RIVER

SHIP CHANNEL

DEEP

BROAD

SLOUGH

SCAKING CO
GONIA COSTA

RIVER

TOYACA

1958



DOW CHEMICAL

DOW CHEMICAL U.S.A.
AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

August 25, 1988

TERRENCE C. PLUMB
SENIOR ENERGY SPECIALIST

Western Division
P.O. Box 1398
Pittsburg, CA 94565
415-432-5196

CGG Land Seismic
Attn: James F. Prossick
505 Community Lane
Woodland, California

Re: Sherman Island Waterfowl Management Area - Seismic Survey


Dear Mr. Prossick:

As requested in your letter of July 4, 1988, Dow Chemical - Petroleum Operations has reviewed the project details and conditionally approve the seismic survey planned for the first Quarter 1989.

From the submitted seismic survey location plat, it appears that seismic line SD 941 will cross Dow Chemical's 8" natural gas pipeline located on the west end of Sherman Island. We request that CGG locate their shot holes a minimum of 100' from the pipeline for safety and notify Dow of initiating field operations to preview shot hole location and/or assist in locating the Dow pipeline. Enclosed is an index map (scale: 1" = 1 mile) and pipeline alignment prints (4-104, 105 and 106) to assist in shot hole location. Also, Dow Chemical has a 6" natural gas pipeline located on the east end of Sherman Island and need to be notified if future surveys involve this portion of Sherman Island or Jersey Island to the south.

Please keep me advised of your efforts on the project and timing on field activity. We will be available to assist CGG in locating Dow's pipeline to insure the operation of the pipeline and safety of personnel. Telephone: (415) 432-5196

Very truly yours,

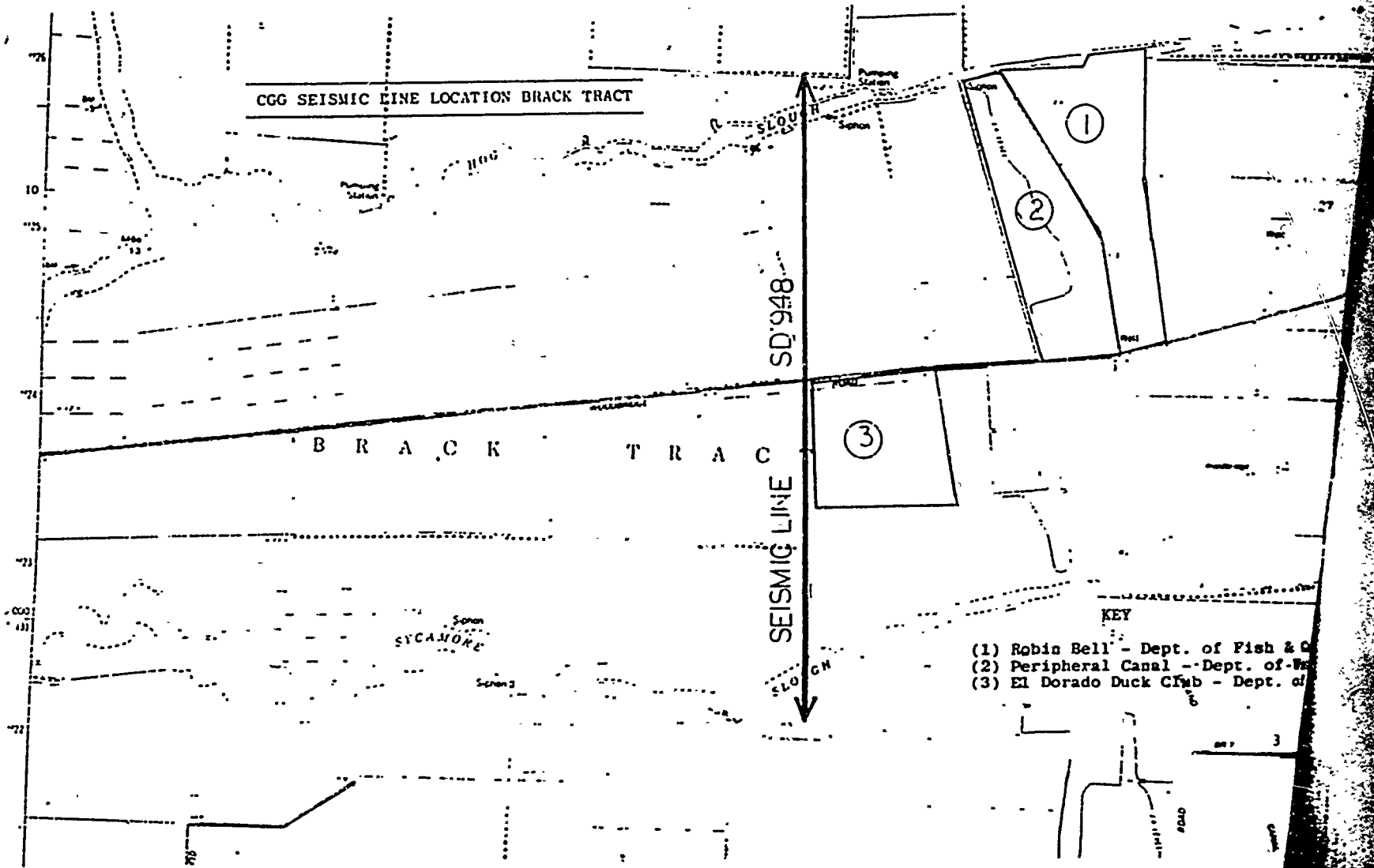

Terrence C. Plumb
Petroleum Operations

cc: D. Beauchamp
Dept. of Fish & Game

CALENDAR PAGE	218
MINUTE PAGE	3439

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

Quality
Performance
More At Dow



- KEY
- (1) Robin Bell - Dept. of Fish & G
 - (2) Peripheral Canal -- Dept. of-En
 - (3) El Dorado Duck Club - Dept. of

CALENDAR PAGE
MINUTE PAGE

249
3440

(916) 355-7020

NOV 1 1988

Mr. James Prossick
CGG Crew 0524
P.O. Box 397
Rio Vista, CA 93453

Dear Mr. Prossick:

I received your October 26, 1988 letter and in it you addressed all the concerns we discussed at our October 26 meeting.

The mitigation measures requested by DFG in responding to the Negative Declaration (SCH 88092603) have been complied with in your October 26 letter.

Please contact me if problems arise involving DFG lands.

Sincerely,

COPY Digitized by
Patricia Perkins

Patricia Perkins
Wildlife Management Supervisor

bc: D. Cohen, State Lands Commission
B. Sanford, R2
Capt. Prosser, R2

PP:kc

CALENDAR PAGE	250
MINUTE PAGE	3441