MINUTE ITEM This Calendar Item No. 36 was approved as Minute Item No. _____by the State Lands meeting.

CALENDAR ITEM

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36

09/23/87

W 6005 PRC 7126 Gonzalaz

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

·APPLICANT:

CGG American Services, Inc. Attention: Mr. Jim Prossic

P. O. Box 488

Thorton, California 95686

PROPOSED AUTHORIZATION:

Approval of a Geophysical Survey Permit to conduct geophysical studies along two lines totaling 30 miles in length crossing private uplands and State-owned waterways in the Sacramento Delta in of San Joaquin, Solano, 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 two seismic survey lines. waterways include the Sacramento River, Inree Mile Slough, Seven Mile Slough, Georgiana Slough, Snodgrass Slough, Mokelumne River, and Grizzy Slough. These waterway areas are subject to State Oil and Gas Leases E 415 and

PRCs 714, 729 and 2966.

TERM:

The term of the Geophysical Survey Permit shall be from October 1, 1987 through November 1,

1988.

PROJECT:

CGG American Services, Inc. has proposed conducting a geophysical seismic survey in the Sacramento Delta Area of San Joaquin, Solano, and Sacramento counties. The survey will be performed in two lines totaling approximately 30 miles as shown in the accompanying maps of

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CALENDAR TTEM NO. 36 (CONT'D)

Exhibit "A". The survey lines will cross privately owned uplands and portions of State-owned waters. Approximately 960 four-inch diameter holes will be drilled on 165-foot centers to a depth of 50-100 feet. The holes may be loaded with a five-pound explosive charge and/or geophone instrumentation. The hole will be backfilled with bentonite to seal it.

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 lines and are reflected in the survey as proposed. Special permits and monitoring of the operations by Department of Fish and Game (DFG) personnel will be required for sensitive areas as determined by DFG. The geophysical information to be acquired is for the use of the State's oil and gas lessees and for the ultimate benefit to the State as an aid in development of the State's resources.

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:

08/24/88.

CALENDAR ITEM NO. 36 (CONT'D)

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 idenfitied as EIR ND 423 State Clearinghouse 87082516; such Negative Declaration was prepared and circulated for public review pursuant to the provision of the CEQA. A copy of this environmental document is attached as Exhibit "B".

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

2. This activity involves lands identified as 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.

IT IS RECOMMENDED THAT THE COMMISSION:

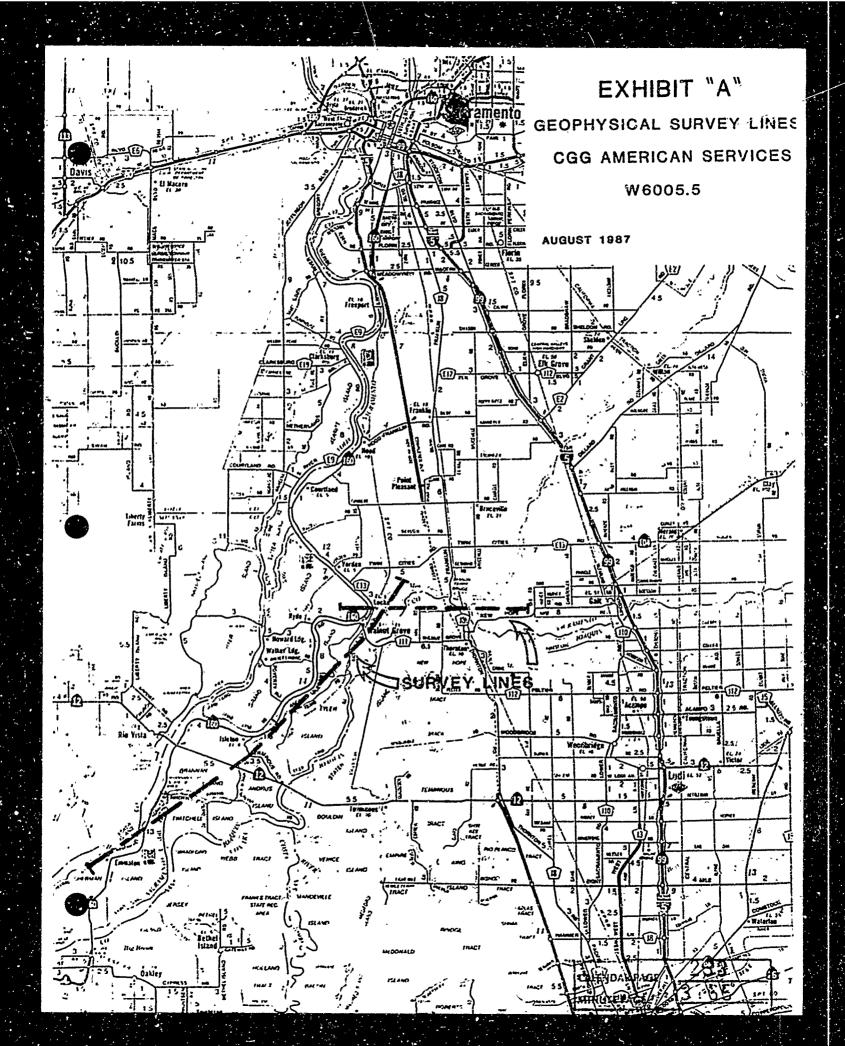
- 1. CERTIFY THAT A NEGATIVE DECLARATION EIR ND 423 STATE CLEARINGHOUSE 87032516, WAS PREPARED FOR THIS PROJECT PURSUANT TO THE PROVISIONS OF THE CEQA AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
- 2. DETERMINE THAT THE PROJECT, AS PROPOSED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT
- 3. FIND THAT THIS ACTIVITY IS CONSISTENT WITH THE USE CLASSIFICATION DESIGNATED FOR THE WAND PURSUANT TO P.R.C. 6370, ET. SEQ.

CALENDAR ITEM NO. 36 (CONTID)

4. AUTHORIZE THE ISSUANCE TO CGG AMERICAN SYSTEM, TAC. OF A PERMIT TO CONDUCT GEOPHYSICAL SEISMIC SURVEYS ON STATE-OWNED TIDE AND SUBMERGED LANDS IN THE SACRAMENTO DELTA AREA OF SACRAMENTO, SOLANO, AND SAN JOAQUIN COUNTIES FOR THE PERIOD OF OCTOBER 1, 1987 THROUGH NOVEMBER 1, 1988.

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STATE LANDS COMMISSION 1807 13TH STREET SACRAMENTO, CALIFORNIA 95814



PROPOSED NEGATIVE DECLARATION

EIR ND 423

File Ref.: W 6005.5

SCH * 87082516

Project Title:

West Thornton Geophysical Survey

Project Proponent:

CGG Land Seismic

Project Location:

Sacramento Delta Area: San Joaquin, Solano and

Sacramento Counties

Project Description:

CGG American Services, Inc. proposes to conduct a geophysical seismic survey in the Sacramento delta Area of the San Joaquin, Solano and Sacramento Counties. The survey will be performed in two lines totaling approximately 30 miles over privately-owned uplands and portions of State waterways. Approximately 960 four-inch diameter holes will be drilled on 165 foot centers to a depth of 50-100 feet and loaded with a five pound explosive charge and/or geophone instrumentation.

Contact Person:

Dwight E. Sanders, Chief Telephone: (916) 322-6877

Division of Research and Planning

This document is prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et seq., Fublic 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:

[7] the project will not have a significant effect on the environment.

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

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STATE LANDS COMMISSION

File Ref.: W 6005.5

August, 1987

WEST THORNTON GEOPHYSICAL SURVEY SACRAMENTO DELTA AREA

INTRODUCTION

CGG American Services, Inc. has proposed conducting a geophysical seismic survey in the Sacramento Delta Area of San Joaquin, Solano and Sacramento Counties. The survey will be performed in two lines totaling approximately 30 miles as shown in the accompanying maps labeled "Attachment A". The survey lines will cross privately owned uplands and portions of State-owned waterway. Approximately 250 four-inch diameter holes will be drilled on 165 foot centers to a depth of 50-100 feet. The holes may be loaded with a 5 pound explosive charge and/or geophone instrumentation. The hole will be backfilled with bentonite to seal the hole. See Attachment B and C for further operational details.

CGG is coordinating this project with all the effected land owners, trustee agencies, such as the Department of Fish and Game and other permitting and responsible local agencies listed in Attachment D.

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ATTACHMENT B

CGG's proposed West Thornton Project is composed of two seismic lines SAC-87-101 and SAC-87-102. This project is situated in the Sacramento Delta Region. The total mileage involved for both lines will be approximately 30 miles. The goal of this project is to determine possible oil and natural gas reserved through geophysical methods.

The geophysical method used in this case will involve the drilling of holes every 165', along our seismic lines. Each hole will be approximately 4" in diameter and generally drilled to a depth of 50'. Where explosives will be used under a waterway they will be drilled to 100'. The majority of the holes will be loaded with a 5 lbs. charge and a geophone. In some instances only a geophone will be loaded in the holes. Every hole will be properly plugged using a bentonite solution. CGG's drilling interval of 165' will be modified when crossing levees. Except where otherwise changed by the Reclamation Districts, the procedure for drilling in the vicinity of the levees is as follows: No hole loaded with a charge shall be closer than 250' from the crown of any levee; A hole loaded with "a geophone only" may be placed within 165' from the crown of any levee and if needed a geophone only hole may be drilled in the crown of the levee itself. For this project CGG anticipates drilling 960 \pm holes. On land CGG will use buggy drills and in the water a pontoon drill will be used.

LINE SAC-87-101

This Line has an East-West orientation and is 7 ± miles length. As indicated on the enclosed map, the line begins in the west on Grand Island at a point approximately 1 mile NW of the town of Walnut Grove. It proceeds across agricultural lands for $4000'\pm$ crossing the Sacramento River. In crossing the river improved levee banks and a deep water channel would be encountered. The line continues in an easterly direction through a pear orchard for $1500^{\circ}\pm$, across an abandoned railway through a narrow waterway and into the marsh area known as The Meadows. When leaving the railway the line would come through some large hardwood trees and brush leaving the leave bank and crossing a 200' waterway. It would then enter a marsh environment consisting mainly of high reeds, traversing the area for 1000'±, where the line would exit the main body of the marsh through an area of large hardwood trees and brush. Crossing a narrow channel it would enter a small island consisting mainly of large hardwood trees and brush. The line would then continue across Snodgrass Slough and enter the Bean Ranch up an improved levee bank, sparsely covered with brush. The line would transect The Bean Ranch using an East-West road, leaving the island and crossing the Mokolumne River, entering what is known as the New Hope Tract. In crossing the river the line would cross improved levee banks, sparsely vegated on both sides. The distance across the river would be 150' ATENDATINGE

NUMBERAGE

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The line would continue across New Hope Tract through a wide variety of agricultural concerns, crossing Thornton Road, Interstate HWY 5 and The Western Pacific Railway, all approximately 1000' south of where they intersect the Mokolumne River. The line would leave the New Hope tract and cross a narrow portion of the Mokolumne river, traversing sparsely vagetated, improved leves banks on elither side. The line would continue across agricultural lands for 5000'±, crossing Grizzly Slough at a point 1000'± south of it's intersection with the Consumnes. In crossing the slough the line would cross an improved sparsely vagetated leves bank on the west side and a lightly forested area on the east bank. That area of forest would be 150' or less in width. The line would continue 2900'± to the east terminating on the west side of Bear Slough.

SAC-87-102

This line has a SW to NE orientation and would be 23± miles in length. Starting in the SW the line begins on Sherman Island, as indicated on the enclosed map. The line proceeds in a NE direction, across a variety of agricultural concerns, for 7200'+ crossing Horseshoe Bend at a point 2600'+ east of it's intersection with the Sacramento River. The line transacts the grazing lands of Dacker Island, crossing Horseshoe bend to the NE at a point 4000' SE of it's intersection with the Sacramento River. Both of the water crossings on Horseshoe Bend are similar. The line will enter and exit sparsely vegetated. improved levee banks on Sherman Island crossing a narrow growth of reads on the water side of the levee in both cases. Entering and exiting Decker Island will also necessitate the crossing of a narrow column of sparse reads, crossing unimproved levee banks on either side of the island. The distances across the water portion of Morseshoe Bend will be 1000' ± on the southerly crossing and 1400'+ on the crossing to the north.

Upon reentering Sherman Island the line continues to the NE across grazing lands leaving the island at a point where it crosses Three Mile Slough, 8000'+ North of the intersection of the slough and the San Joaquin River. The water crossing at this point would be across improved levee banks covered with rip-rap, crossing the waterway itself for 900'+. The line would continue across the agriculture of Twitchell Island, crossing Seven Mile Slough 1800'+ east of it's intersection with Tomato Slough. The water crossing would be less than 200' in distance over sparsely vegetated, improved levee banks. Entering Brannan Island the line would continue to the NE for approximately 3.25 miles, leaving the island 1000' North of the intersection Jackson Slough Road and Terminous Road. Once, on Andrus Island: line continues across various types of agriculture, tho generally maintaining a location in the center of the island. It would leave the island where it crosses The Géorgiana Slough, as indicated in attachment A. The water crossing itselfwould be 300' t across sparsely vagetated, improved lever banks.

The line continues to the NE across the agriculture of Tyler and Dead Horse Island. It crosses Snodgrass slough and Dead Horse Cut on either side of Dead Horse Island. Both would be narrow water crossings over sparsely vegetated, improved layer banks. The line then extends across the Bean Ranch terminating on it's North boundary, as indicated on Attachment A.

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ATTACHMENT C

In general the majority of the two seismic lines proposed will occur in agricultural lands with private ownership of the surface. The mode of operations for these areas will be bugger mounted drills with pickup truck support and some use of helicopters for the transportation of personnel and equipment. In those areas shown on the attached map where water crossings are anticipated, the operations will be modified as follows:

--A. Any Holes drilled in the waterway are subject to the terms of the list of guidelines made a part of this agreement (attachment E). The method for drilling the holes in waterways 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 leves to levee it will be necessary at every water crossing and in marsh areas to place by hand a cable/phonx system , which enters and exits the water. No alteration of the stream bed will occur and no heavy equipment will be needed between the levee crown and the waters edge on either side of a water crossing or in marsh The cable/phonx system shall be weighted and shall extend across the bottom of the watercourse or marsh for 2-3 days whereupon it shall be removed by hand on land and by boat in the water. The cable/phonx system is compromised of a "cable" the size of an outside extension cord, a "field unit" (5"x5"x4") box that sends a signal from the phonx to the cable. and the phonx itself a pressure sensitive hydrophone which generates the seismic signal to the field unit. Each unit as described weighs 35 lbs. total and extends 165' in length. Numerous units are connected traether to create the seismic line.

--C. In cases where there are narrow water crossings 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 cable across the water. Just as with the cable/phonx system the launching of the boat will be done by hand without stream bed modification.

--D. For this survey drilling operations will occur only in Horseshoe Bend and Three Mile Slough and these holes will be loaded with geophones only - as described in attachment E. All other water crossings, including those in the marsh lands, shall require the placement of our cable/phonx system as described above.

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MINUTE PAGE 3:73

ATTACHMENT D

- 1.) Department of The Army
- 2.) Cal Trans Permit
- 3.) San Jasquin Local Health District
- 4.) Sacramento County Dept. of Public Works
- 5.) Sacramento County Sheriff's Department
- 6.) Solano County Fire Warden
- 7.) San Joaquin County Sherrif-Coroner
- B.) Department of Water Resources
- 9.) Various Reclamation Districts

CALENDAR PAGE $\frac{234}{3:74}$ AINUTE PAGE



DEPARTMENT OF THE ARMY

SACRAMENTO DISTRICT CORPS OF ENGINEERS 650 CAPITOL MALL.

SACRAMENTO, CALIFORNIA 95814-479...

June 19, 1987

Regulatory Section (N6-006)

Mr. James F. Prossick CGG Land Seismic Post Office Box 488 Thornton, California 95686

Dear Mr. Prossick:

I reviewed the map submitted with your letter dated June 10, 1987, showing the routes for your proposed seismic survey.

The Department of the Army has issued a nationwide general permit for survey activities, including seismic exploratory operations, in navigable waters of the United States. Your proposed surveying can be done under the authority of the nationwide permit provided the work meets the conditions of the enclosed information sheet. I have assigned Number N6-006 to this proposed work.

I suggest you contact Aids to Navigation, U.S. Coast Guard, prior to start of any work within a waterway. Their address is: Commander (oan), 11th Coast Guard District, 400 Oceangate Boulevard, Long Beach, CA 90822-5399

If you have any questions, please contact Phyllis Petras, Room 5538 at the above letterhead address, or telephone (916) 551-2272.

Sincerely,

Tale Fri. Whath_ Robert M. Clark

Chief, Regulatory Unit 1

Enclosure

Chend in page MINUTE PAGE

ARTHENT OF TRANSPORTATION (CALTE) ROACHMENT PERMIT M-P-3028 (REV 2/32)	Perms & No. 1057-6-60-2421	indicates es
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compliance with (check one):	10-5J,SAC-49.71.3.0.6.2	22
our application of MAY 26, 1987	May 27, 1987	
Itility Notice No. 0		
Igreement No		
W Contract No		,
rulvert 400 feet south of Mokelum of Jackson Slough Road, and on Statements. Though. All work shall be done in sophysical survey requirements. In accordance with General Prochestant of this work, permitted the Start of this work, permitted Sharp. Modesto. (209) 576-6: 15350. All work under this permit grantor's representative. IMMEDIATELY FOLLOWING COMPLETION OF	FERNITIEE SSION IS HEREBY GRANTED to: The under and across State Highway 5 in The River, on State Highway 12 1466 for The Highway 166 4666 foet doubt of The accordance with this permit and the a vision No. 7. Three Working DAYS FRID whall no liv grantor's representative 299. 142 N 9th Street, suite 8. Nodes must meet with the approval of the	t gent pen title ittacl 7 to 10. CA
following attachments are also included as part of this icable): Yas General Provisions Sho Utility Maintenance Provisions S No Special Provisions 190 100 5 S No A Cal-OSM perait required prior to beginning	be billed.actual crete for: Yes X	<u>.</u>
*S.M.A. The information in the environmental documental approval of this permit.	tation has been reviewed and considered poior to	an and annual of the control of the
permit is void unless the work is completed before M O . permit is to be strictly construed and no other work of roject work shall be commenced until all other necessary	VENBER 27, 1987. her than specifically sentimed to hereby authorized, pecalts and environmental clearances have been obtained.	•
- FERI	APPROVED:	
· MAINT FSHARP	P. W. FELLEY, District Director	-
	PYPOAN . 11 TO A CONGE 2	34.10
'ps	C. A. RICE, District Fernit Engineer and Congrace 3.	76

SAN JOAQUIN LOCAL HEALTH DISTRICT

1601 E. HAZELTON AVE., STOCKTON, CA

PERMIT EXPIRES 1 YEAR FROM DATE ISSUED

The Complete in Triplicated of

Application is hereby made to the San Josquin Local Health District for a permit to construct and/or install the work herein described. This application is made in Normalismos with San Josquin County Ordinarios No. 540 for sewage or No. 1862 for well/pump and the Rules and Regulations of the San Josquin

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Contractor		Addison of Large	W CA	SKSK License	ů . Di	1000
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rules and regulations of	the San Josquin L	ocal Health District.		•		
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SACRAMENTO COUNTY DEPARTMENT OF PUBLIC WORKS PERMIT NO. 87-, 627 - 7th St., SACRAMENTO, CALIFORNIA PHONE 440-9544 MAINTAINED ROAD MAP NO. APPLICATION FOR ENCROACHMENT PERMIT COORD: NO. Application is made for permission to excavate, construct and/or otherwise encrosch on county right of way by performing the inverted performing the secretary described below on:

SEE Allacted Plans — Between Estimated Type of surface to be cut 6:13.41 (c) Other: 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. Before starting work, the Permitee shall notify Sacramento County Construction Inspection, Phone (916) 366-2201, 24 hours in advance of the date work is to begin. 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 () this application, it is agreed by the applicant that the County of Secramento and any officer or employee thereof shall be saved harmless by the applicant from any hability or responsibility for any accident. Ices or damage to persons or properly. Representing or occurring as the proximate result of any of the work undertaken under the terms of this application arm the permit or permits which may be granted in response thereto and that eligit and kabilities are hereby assumed by the applicant. It is further agreed that if any part of this installation interferes with the fulking use of the highway if 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: CG6 American Ser. SE TVICES 488 FOR USE BY UTILITY COMPANIES CA (Zip) _ 7568K District: . _ Division: Engineer: _ Job No.: DEPARTMENTAL REVIEW SPACE FOR SKETCH OR COMMENTS: County Water Highways Water Resources A. P. I. Assessor Parcel No. . Water Quayly Code: 0077-0301 Deposit^{*} \$ Permit Fee: :\$ Code: 2900-9258-SH000-062270 SEE ATTACHED Validation: CONDITION 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.W. McKENZIE, Director of Public Works

Inspector Approval

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

7-5-87

Sacramento County Sheriff's Department 711 G. Street Sacramento, CA Attn: Sgt. R. Howell

Dear Sgt. Howell:

In reference to our phone conversatio on the 3rd I am forwarding the necessary information to ammend CGG's current explosives permit. I have enclosed a map of the area we will be working in. The materials we will be using consist of 100° SSS caps (Dupont), and 5 lb. sticks of the 60% Seisgel type.

If you require any additional information please call me at our Thornton field office.

Thank you for your time and consideration in this matter.

Sincerely.

Hichael Riordan permit agent

idial hings

WESTLAKE VELACE, CALIFORNIA 91361

MOS 496 4311 213 991 7050 TELEX: 182879



Collect IN 8.11. SACRAMENTO COUNTY SHERIFF'S DEPARTMENT 711 含 Straet, Secremento, Collfornia EXPLOSIVES PERMIT Permit No. 105-86 Fingerprint No. Application Date 4-3-85 Renewal Permit Date 7-3-85 TIN Advance (Hin. 7 day waiting period) 1. Permittae: McMillon. Phone No. 916-395-2249 Representing: C.G.G. Land Seismic Phone No. 916-452-2058 or 2059 Address 699 Hampshire Road Suite 203 Westlake, Ca. 91361
Street City State Zip Code Driver Lic.# 2828027 State Ca Expiration Date 1986 Social Security # 519-52-4790 Date of Birth 2-12-50 2. Transport Vahicle: Make Ford Model P/U Yr. 1984 License No. 2J31801 State CA. Travel Route & Safe Stopping Places Freeport, Meadwoview, Mack Rd., Franklin Rd., 3. Activity: Manufacture_____Store_xx_Receive and/or Transport_xx_Use_xx__Seli or"Dispose_ Restrictions Store, Transport, & Use seismic operations 4. Heterial: Type of Explosives Vibro-Gol Quantity 100+ lbs Location of storage 8685 River Road Type of storage Class A Type Magazine How and/or where used Seismic Exploration in Sacramento County 1, the undersigned, certify that I understand and will-abilde 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 data will be disposed of in the following manner: Returned to source (2) Totally destroyed (3) Turned over to the authority issuing the permit or reapply for a new permit. APPROVAL This permit is granted on 11214-86 to perform those activities noted above, and will expire 11-14-8 or until suspended or revoked. times or during the tenure of the permit, subject to the conditions noted below.

This permit is not the tenure of the permit, subject to the conditions noted below. This permit is not transferable. TSSUING AUTHORITY Sgt. R. Nowell #12 Distribution: 916-440-6153 Permittee - White 10 Copy - Green State Bureau of CII, Sacramento - Yellow

Chief fire authority where explosives to be stored or used - Pink Michigan

DEPARTMENTAL RECEIPT NUMBER

SOLANO COUNTY FIRE WARDEN COURTHOUSE ANNEX 600 TEXAS STREET FAIRFIELD, CALIFORNIA 94533

EXPLOSIVES APPLICATION AND PERMIT

4	
	LICATION & PERMIT & 181 APP. TION DATE 3-30 87 PERMIT DATE
	THUM 7 DAY WAITING PERIOD FEE: \$2.00 - 100 L9S OR LESS XX \$10.00 - MORE THAN TOO IR.
1.	PERMITEE: HAME Michael White Riordan BLASTERS PERMIT NO
	ADDRESS 8927 Wickfield, San Antonio, TX 78217
	AGE 25 HT 6'3" WT 195 EYES Blue HAIR Brn SEX Male DRIVERS LICENSE NO. 09143283.
	REPRESENTING CGG American Services, Inc., 699 Hampshire Rd, Ste 203, Westlake Village,
2.	VEHICLE: MAKE & MODEL Nissan 4 x 4 YEAR 86 STATE & LICENSE NO. 475-IDB TX
	TRAVEL ROUTE & SAFE STOPPING PLACE
3.	ACTIVITY: MANUFACTURE STORE RECEIVE A/OF TRANSPORT USF
	SELL OR OTHERWISE DISPOSE *OPER. TERMINAL PARK VEHICLE
4.	MATERIAL: TYPE 100' SSS Caps (Dupont) 60% Seisgel, 5 1b. sticks OHANITY 2600 110.13,00
	HOW & WHERE STORED Material will be transported in not stored in Solano County.
	HOW & WHERE USED See Attachment Underground Scismographic geophysic
)	suveys.
1.	THE UNDERSIGNED. CERTIFY THAT I UNDERSTAND AND WILL ABIDE BY ALL LIDITIAL, STATE AND LOLAL LAW. DEPLOYER.
-	ES OR ORDERS TO PERFORM THOSE ACTS HOTED HEREIN. I ALSO UNDERSTAND THAT ALL UNUSED INVITIONS COVERS IN THE
	MIT. ON OR BEFORE THE EXPIRATION DATE, WILL BE DISPOSED OF BY RETURNING TO THE SOURCE, TOTAL CONTINUE
TUR	NING OVER TO THE AUTHORITY ISSUING THE PERMIT OR REAPPLYING FOR A HIM PERMIT.
	SIGNATURE ////
	SIGNATURE SIGNATURE
	APPROVAI
1415	S PERMIT IS GRANTED ON 6/30/87 TO PERIORI THOSE ACTIVITIES HOLD FOR COLOR
	TRE ON 6/30/88 (ONE YEAR MAXIMUM EPHAT DIATE OF 1500).
	PERHITTEE IS LIMITED TO PERFORM THOSE ACTIVITIES COSTET A 33/3/ DIMENTIL THE
	TENURE OF THIS PERMIT, SUBJECT TO THE CONDITIONS NOTED BELOW. THIS PERMIT IS NOT TRANSFERANCE AND
	IS VALID ONLY IN SOLANO COUNTY.
	AND COUNTY FIRE WARDEN OR REPRESENTATIVE Escate (b). Stock
ISSU	JING AUTHORITY
	TENTS: BEFORE USAGE OF EXPLOSIVES, CONTACT SOLAND COUNTY DISPATCH CENTER 707-479-6331 19 1410"# 1411 01 1141
~ ~	ATION AND TIME OF BLASTING. DITIONS:
•	•
	IE-Applicant BLUE-Applicant GREEN-Auditor CANARY-Sheriff PINK-Dept of Justice 6010FMMD-Issuing Authority HINAL APPROVALS SHALL BE FORWARDED TO: Enforcement Services Division, California Highway Patrol
1 E R	PO Box 898, Sacramento, CA 95804
	1-1001 1901 3,81
	Cast rest Facult

SAN JOAQUIN COUNTY SHERIFF-CORONER COURTHOUSE STOCKTON, CALIFORNIA

APPLICATION AND PERMIT EXPLOSIVES

Application & Permit No. 87-7	Application Date	Fuly 24th 1987
Fee: \$ 2.00 [] 100 lbs. or less.		y 29, 1987
\$10.00 🕅 more than 100 lbs.		(Minimum 7 day walting period)
1. Permittee: James F. Prossick Name	Suite 100 Address 699 Hamps	DA Bhire Rd Westlake Village. CA. 91
D.O.B. 5-22-58 Hgt. 6 2 1 Wgt. (Min. 21) Representing: CGG American Serv		
2. Vehicle for Trans: Make Ford/Ford	Model ±Ú/PU	Yr83/82 Lic. No.5DD199/2S95310
State Registration CO. App/CA.		
3. Activity: Manufacture [] Store wise dispose [] Operate Termin	nal*[] Park Vehicle [_]	
4. Material: Type of Explosive Seisge	1_60%	Quantity 3000lbs
How and/or where stored In appro	ved wagazine in Sacramento	County
How and/or where used New Hope	Tract	
Applicant's Signature	ick_	pennil
	APPROVAL	
This permit is granted onJuly 29,	1987 to perform to perform	n those activities aisted above, and
will expire July 29, 1988	I year maximum from date of ssure	
The permittee is limited to perform these (limes or during the tenure of the permit, t	nctivities <u>See attache</u>	d addendum
	. /	UNINO, Sheriff-Coroner
Restrictions:	•	Issuifig Authority
istribution [1] Permittee [2] Issuing Authority [3] County Fire Marshall [4] State Bureau of CII, Sacramento [5] Chief fire authority where explosives to be store	•	Assistant Sheriff
 Terminal approvals shall be forwarded to: 	Crilifornia Highway Patrol Motor Carrier Safety Section 2011 - 26th Street Sacramento, CA 95814	234.16 238100000 3:32

DEPARTMENT OF WATER RESOURCES.
THE RECLAMATION BOARD

9th Street, Room 455-8 monte, CA 95814 (916) 445-9454



June 17, 1987

File No. 3001.70.001

Mr. James F. Prossick CGG American Services, Inc. P. O. Box 488 Thornton, CA 95686

Dear Mr. Prossick:

The Reclamation Board has no objection from a flood control standpoint to your conducting seismic surveys in the Sacramento Delta along the survey lines shown on the map enclosed with your May 31, 1987 letter provided that:

- Your company shall notify the Department of Water Resources by telephone, 916-445-3942, at least three working days prior to start of work.
- 2. The energy charge shall be limited to 5 pounds and shall not be placed within 250 feet from the levec toes.
- The seismic survey shall not interfere with levee maintenance work.
- 4. Geophysical cables may be placed on or near the leves and across the Sacramento, Cosumnes, and Mokelumne Rivers, Cables placed across the rivers should not interfere with river navigation.
- 5. The work shall be completed by October 1, 1987.

MINOVUTAGE 234.17

Mr. James F. Prossick Page 2 June 17, 1987

Enclosed are an approved copy of your permission request and a copy of your map showing the locations of the survey lines.

If you have any questions, please contact Ed Greiner at the above address or telephone 916-324-3889.

Sincerely,

RAYMOND E. BARSCH General Manager

Enclosure

cc: Colonel Wayne J. Scholl

District Engineer Sacramento District

U. S. Army Corps of Engineers

650 Capitol Mall

Sacramento, CA 95814

MURRAY, BURNS AND KIENLEN

A COPPRIATION
CONSULTING CIVIL ENGINEERS
1618 29TH STREET SHITE JOD
SACRAMENTO CALIFORNIA 95818
TELEPHONE [918] 458-4400

JOSEPH I. BURNS P.E. DONALD E. KIENLEN, P.E.

JERRY J. ELLIOTT, P.E. JOHN P. WRIGHT P.E. GILBERT CONO. JR. P.E. MARC VAN CAMP July 21, 1987

Angus Norman Murray 1985 - 1985

Reclamation District No. 348 c/o D. D. Geiger 400 Bank of Stockton Building 311 E. Main Street Stockton, California 95202

Re: Seismic Work - CGG Land Seismic

Dear Mr. Geiger:

Reference is made to a proposal by CGG Land Scismic to conduct sermic testing work within Reclamation District No. 348, New Hope Tract.

From the maps submitted by the CGG Land Seismic it appears that the test work will be done on an east-west alignment located north of Barber Road and south of the north levee of Reclamation District No. 348.

According to a letter dated May 28, 1987 by the CGG Land Seismic the mode of operation used by the company is as follows:

- No holes loaded with a charge will be drilled closer than 250 feet from any levee.
- Holes that are not loaded with a charge will be drilled no closer than 165 feet from any levee.
- 3. A hole may be drilled in the crown of the levee but no charge may be loaded in that hole.
- 4. All holes will be backfilled with bentonite.

These same methods have been utilized in other reclamation districts and no problems have been encountered.

100000 11AGE 234 .19

100-100 11AGE 3 : 35

I see no objection to the proposed seismic testing provided that the limitations in and near the district levees are strictly adhered to by the CGG Land Seismic Company.

Sincerely,

MURRAY, BURNS and RIENLEN

By: Ch. F. Wright

cc:—CGG Land Seismic
P. O. Box 488
Thornton, California 95686
Attn: James Prossick



255 Hampskire Road Suite 190a Le Village, California

803 496 4311) 1 818 991 7050 TELEX 182875 Reclamation District 556

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CGG LAND SËISMIĆ A DIVISION OF CGG AMERICAN SERVICES, INC

				5-28-87
P.O. Box 246				UNIE
Valnut Grove.	CA. O			-
916-776-1142				
G.G. as an independ	dent-contractor,	, hereby requests permi	ssion to conduct	a geophysical survey on lar
med/lessed by you a				
т.	R)	S.	County	CGG Line No.
Properties own	ned/governe	ed by Reclamatic	n District	indicated on map
In consideration	n for granting th	ils permission wa agree	that:	
1. All operation	s will be condu	cted at our own risk and	d expense.	
2. This Compan	ny will indemnify	y and hold you harmless	from áll liability	to or claims of others
which may resu	alt from our ope	rations on your lands.		
3. We will assur	me full responsi	bility for any damages of	aused by or aris	ing from our operations
on your lands.		* = *		
4. Necessary per	rmission will be o	obtained from . Priva	te Landowne	erș,
prior to comme	ncement of our	operations.		
5. Special condition	tions: .Shot. I	iole. 50."depth . 5	1bscharg	ge , , , , , , ,
		Вү	James F. F	
		Ву С.G.́G.	James F. F	
		By C.G.G. Crew	James F. F	rossick
	. • . •	By C.G.G. Crew	James F. F	rossick
Provide 1	ili.	By C.G.G. Crew Local Cr	James F. F	rossick
CAEGLO L	ili y	By C.G.G. Crew	James F. F	rossick
	ile ç	By C.G.G. Crew Local Cr	James F. F	rossick
CATEGO LO	ile ç	By C.G.G. Crew Local Cr	James F. F	rossick
	lile y	By C.G.G. Crew Local Cr	James F. F	••••••
EE	ili (By C.G.G. Crew Local Cr	James F. F	rossick
EE	ili y	By C.G.G. Crew Local Cr	James F. F	rossick
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EE	ile y	By C.G.G. Crew Local Cr	James F. F	rossick
EE	ili y	By C.G.G. Crew Local Cr	James F. F	rossick
EE	ili y	By C.G.G. Crew Local Cr	James F. F 0524 ew Phone Numb	rossick er: (209), 794-2382
EE	lili y	By C.G.G. Crew Local Cr	James F. F. 0524 ew Phone Numb	rossick



e Hampshire Road RTE 180A AME VILLAGZ, GALIFOŔNIA

05 496 4311 18 991 7060 ELEX 182375

CGG LAND SEISMIC

	SATE
.O. Box 248	
#1nut Grove, CA. 95690 16-776-1142	
	lests permission to conduct a geophysical survey on land
ned/lessed by you and described as follows:	
T. R. S. coperties owned/governed by Rec	County CGG Line No. lamation Distric: indicated on map
In consideration for granting this permission	n we agree that:
1. All operations will be conducted at our o	own tisk and oxpensé.
2. This Company will indemnify and hold yo	ou harmless from all liability to or claims of others
which may result from our operations on yo	อนาlands.
3. We will assume full responsibility for any	damages caused by or arising from our operations
on your lands.	
4. Necessary permission will be obtained from	Private Landowners
prior to commencement of our operations.	•
5. Special conditions: Shot Hole 50*	Depth 5 lbs. charge
se indicate your agreement hereto by signing a	nd returning the attached duplicate of this letter.
se indicate your agreement hereto by signing a	Very truly yours. By
,	Very truly yours. By fame I. Prossick C.G.G. James F. Prossick Crew. 0524
Leone Cil (lillion 2)	Very truly yours. By fame I. Prossick C.G.G. James F. Prossick Crew. 0524
Cocife Cilling 22	Very truly yours. By fame I. Prossick C.G.G. James F. Prossick Crew. 0524
Cocife Cilling 27	Very truly yours. By
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SSS HAMPSHIRE ROAD

805 496 4311 RIB 991 7060 TELEX 182875

AKZ WILLAGE, CALIFORNIA

CGG LAND SEISMIC A DIVISION OF CCG AMERICAN SERVICES, ENC.

John V. Da Cruz	
Star Route Box 460A	DATE
Rio Vista, CA. 94571	
(916) 777-194-5266	
C.G.G. as an independent contractor, hereby reque	ests permission to conduct a geophysical survey on lands
owned/lessed by you and described as follows:	and a group of the same of the
T. R. S. Properties owned/governed by Recl	County CGG Line No. Lamation District indicated on Map
In consideration for granting this permission	we agree that:
1. All operations will be conducted at our ow	yn risk and expense.
2. This Company will indemnify and hold you	u harmlass from all liability to or claims of others
which may result from our operations on you	
3. We will assume full responsibility for any o	damages caused by or arising from our operations
on your lands.	
4. Necessary permission will be obtained from	Private Landowners
prior to commencement of our operations.	
No holes loaded with a than 250' from any leve	depth 5 lbs. charge every 165' charge will be drilled closer se bank. Holes that are not ill be drilled no closer than nk. A hole may be drilled in crown largemany be considered in the constant of the const
	Very truly yours,
	By. James J. Drossell
	C.G.G. James F. Prossick
	Crew 0524
126400	Local Crew Phone Number: 209-794-2382
Solal Celery	
XMINION President, Reclamation District No. 1601	DATE
LESSEE	DATE
REMARKS.	DATE
Tiperang.	
	1
	Metro 1990 3 1 3 9
	TARLANT WOR 3103



1 4	kd 6-25 will m	etich call	
		CGG-LAND SEISMIC A DIVISION OF CCG AMERICAN SERVICES, INC.	
	ter Brown	5/28/87	
7	0. Box 247	DATE	
Wa	imt Grove, CA. 95690	The state of the s	
(9	16) 776-1334		
C.G.	G. as an Independent contractor,	heraby requests permission to conduct a geophysical surv	vey on lands
	od/leased by you and described as		
2	T. R. operties owned/governed	S. Courty CGG Line by Reclamation District indicated on	
	In consideration for granting thi	s permission we agree that:	
	1. All operations will be conduc	ted at our own risk and expense.	
William III	2. This Company will indemnify	and hold you harmless from all liability to or claims of oth	ers
	which may result from our oper	•	
		oility for any damages caused by or arising from our opera	tions
	on your lands.	Private Landowners	-
.	4. Necessary permission will be o		********
	prior to commencement of our		
1	5. Special conditions: . Shop	lole 50' depth 5 lbs. charge	•••••
		•	
	*********		:
	•••••		······································
· ·	· -	by signing and returning the attached duplicate of this lett	er.
VE	RBAL OK 6/26	Very truly yours,	
VE	· -	Very truly yours,	
VE	RBAL OK 6/26	Very truly yours, By	
VEI .by	RBAL OK 6/26 Peter Brown	Very truly yours, By	<u> /</u>
VEI .by	RBAL OK 6/26 Peter Brown	Very truly yours, By	<u> /</u>
VEI	RBAL OK 6/26 Peter Brown Tim P. 6.25.8	Very truly yours, By	<u> /</u>
VEI	RBAL OK 6/26 Peter Brown Tim P. 6.25.8	Very truly yours, By	<u> /</u>
VEI By	RAL OK 6/26 Peter Brown Jim P. 6-25-8 Brown Called	Very truly yours, By	<u> /</u>
VEI By	RAL OK 6/26 Peter Brown Jim P. 6-25-8 Brown Called	Very truly yours, By	<u> /</u>
VEI By	RAL OK 6/26 Peter Brown Jim P. 6-25-8 Brown Called	Very truly yours, By	<u> /</u>
VEI By	RAL OK 6/26 Peter Brown Jim P. 6-25-8 Brown Called	Very truly yours, By	<u> /</u>
VEI By	RBAL OK 6/26 Peter Brown Tim P. 6.25.8	Very truly yours, By	<u> /</u>
Peter Can hom	RAL OK 6/26 Peter Brown Jim P. 6-25-8 Brown Called	Very truly yours, By	<u> /</u>
Peter Can	RAL OK 6/26 Peter Brown Jim P. Brown lalled be reached at after 6:00	Very truly yours, By	<u> /</u>
Peter Can hom	RAL OK 6/26 Peter Brown Jim P. 6-25-8 Brown Called	Very truly yours, By	<u> /</u>

mation Districts 227,407,2067 Fennen Andrus Leves Haintenance District RRC Dist CGG LAND SEISMIC J.R. Lauritsen Jr. (SR) 7.0 Box 747 Bin'Vises, CA. 394571 5 7 7 -(707) 374-6717 G.G. as an independent contractor, hereby requies permission to conduct a geophysical survey on lands owned/leased by you and described as follows: S. S. CGG Line No. Line 2 County . On Racianation Districts & Laves districts indicated on Map. In consideration for granting this permission we agree that: 1. All operations will be conducted at dur own risk and expense. 2. This Company will indemnify and hold you harmless from all liability to or claims of others which may result from our operations on your kinds. 3. We will sesume full responsibility for any damages caused by or arising from our operations on your lands. 4. Necessary permission will be obtained from PT17Ate Landowners prior to commencement of our operations. 5. Special conditions: Shot. Role. 50! Repth. 5. 1bs. charge, every 165! 777-6473 (407 Ausust Corners Please indicate your agreement hereto by signing and returning the attached duplicate of this letter CALL James Birch Supervalued IMPORTANT MESS

7-7 OK BY Laurizer DATE TIME 3:1 IMPORTANT MESSAGE WHILE YOU WERE OUT 200' off. for LAURIZEN CALLED LANDOWNER 707-374-6719 PHONE NO. LESSEE PLEASE CALL TELEPHONED WILL CALL AGAIN CALLED TO SEE YOU KU397 WANTS TO SEE YOU RETURNED YOUR CALL MESSAGE CAN'T DALL WITHIN LEVEE Sty 200 FREM CALDULARD

ATTACHMENT E

Additional Operational Information:

In conducting the survey there will be no use of explosives in areas under Horseshoe Bend during the months of April, May, June, September, or October. In areas where explosives will be used under rivers or sloughs the charges will not exceed 5 pounds and will be placed at the bottom of holes 100 feet below the bottom of the watercourse. In areas where only geophones are placed below the waterway they will be at the bottom of holes 50 feet below the waterway.

For this survey heavy equipment, drilling operations, and use of explosives will be limited to the areas outside riparian or marsh wetlands. Any equipment entering or exiting waterways will do so at locations approved by the Department of Fish and Game or their observer. Any explosive operations will be conducted pursuant to permits from the Department of Fish and Game as well as local counties.

ADALIMACE 234.26

AMUREPACE 3:92

*			
STATE	LANDS	COMMISSIO	N

ATTACHMENT F

Date	Filed:	8. 1	17	187

File Ref.:

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

A.	GENERAL	L INFURMA	HON
----	---------	-----------	-----

1.	Na	me, address, and telephone number:		
	a.	Applicant	b.	Contact person if other than applicant:
		OGG American Services Inc.		Jim Prossick
		P.O. Box 488		
1		Thornton, CA. 95686	•	
		209 794-2382		
2.	a.	Project location: (Please reference to nearest town or of See attachment B	community a	and include county)
				
	ь.	Assessor's parcel number: <u>N/A</u>		
3.	Exi	sting zoning of project site: <u>Agriculture</u>		
4.	Exi	sting land use of project site: Farm Lands, Marsh,		•
5.		Granhud and Survey		
-				
		, ·		<u> </u>
6.	Oth	er permits required: See Attachment D		
		-		
•				· .

B. PROJECT DESCRIPTION

for building construction projects, complete "ATTACHMENT A".

2. For non-building construction projects: Describe fully, the proposed activity. 25 purpose and intended use, e.g. for proposed mineral prospecting permits, include the number of test holes, size of holes, amount of material to be excavated, maximum surface area of disturbance, hole locations, depth of holes, etc. Attach plans or other drawings as necessary.

SEE Atachment B

1. E. ME 234.2

WINDSER GR

3,93

C.	ENVIRONMENTAL SETTING _ SEE Atached Map & description of operations		_		
1.	Describe the project site as it/exists before the project, including information on topography, soil stability, plants and any cultural, historical, or scenic aspects. Describe any existing structures on the site, and the use of the structure		msis,		
2.	escribe the surrounding properties, including information on plants and enimals and any cultural, historical, or scenic aspects. Idicate the type of land use (residential, commercial, etc.), intensity of land/use (one-family, apartment houses, shops, departent stores, etc.), and scale of divelopment (height, frontage, set-back, rear yard, etc.).				
D.	ENVIRONMENTAL IMPACT /ISSESSMENT				
	Answer the following questions by placing a check in the appropriate box. Discuss all items checked "yes" a (Attach additional sheets as necessary)	yr "may	'bè".		
Wil	the project involve:	WAYBE	NO		
1.	a change in existing features of any bays, tidelands, beaches, lakes, or hills, or substantial elteration		\square		
2.	a change in scenic views or vistas from existing residential areas or public lands or roads?	Ü			
3.	a change in pattern, scale, or character of the general area of project?		容		
4.	a significant effect on plant or animal life?				
5.	significant amounts of solid waste or litter?		\mathbf{x}		
6.	a change in dust, ash, smoke, fumes, or odors in the vicinity?		E C		
7.	a change in ocean, bay, lake, stream, or ground water quality or quantity, or alteration		X		
8.	a change in existing noise or vibration levels in the vicinity? Drilling operation -Attachment B	Ď			
9.	construction on filled land or on slope of 10 percent or more?		(X)		
10.	use or disposal of potentially hazardous materials, such as toxic or radioactive. See attachment B substances, flammables, or explosives?				
11.	a change in demand for municipal services (police, fire, water, sewage, etc.)?		অ		
12.	an increase in follis fuel consumption (electricity, oil, natural gas, etc.)?		团		
13.	a larger project or a series of projects?		Ä		
E.	CERTIFICATION				
	If hereby certify that the statements furnished above and in the attached exhibits present the data and infoquired for this initial evaluation to the best of my ability, and that the facts, statements, and information present and correct to the best of my knowledge and belief.				
	Date: 8-17-87 . Signed: Jane F. Picase	h			

ENVIRONMENTAL IMPACT ASSESSMENT CHECKLIST -- PART II

arme corne congress.

W 6005.5 File Ref .: Fürm 13.20 (7/82) BACKGROUND INFORMATION CGG American Services Inc. Applicant P.O. Box 488 Thornton, CA 95686 08/24/87 B. Checklist Date: Alex E. Gonzalez, SLC (213) 590-5201 or Mary Griggs SLC, (916) 322-0354 C. Contact Person Telephone (... Geophysical Seismic Survey Purpose Sacramento Pelta Area. San Joaquin, Solano and Sacramento Location Counties. See map attachment "A" Conduct geophysical seismic surveys along two lines for a total Description. length of approximately 30 miles. See introduction and Attachment "B" Persons Contacted. State and local agencies - See attachment D II. ENVIRONMENTAL IMPACTS. (Explain all "yes" and "maybe" answers) Yes Maybe No A Larth Will the proposal result in. 1. Unstable earth conditions or changes in applique substructures? 2 Disruptions, displacements, compaction, or overcovering of the soil? See attachment "B" 3 Change in topography or ground surface relief features? 6 other ges an deposition or ecosion of beam sands, or changes in situation, deposition or econor, which may mostify the channel of a river or stream or the hed of the organ or any hay, injet, or lake? 7. Explorate of all people or in special to perform hazards raise or embracable specdes em dalgger en e

MINUSE 14CE

В.	.fir. Will the proposal result in:	Yes May	liè No
	Substantial air emmissions or deterioration of ambient air quality?	ПГ	X
	2. The creation of objectionable odors?	H F	ָרַאַ ו ואַן
	3. Alteration of air movement, moisture or temperature, or any change in climate, either locally or regionally?.	T T	X
C.	· · · · · · · · · · · · · · · · · · ·		
٠.	1. Changes in the currents, or the course or direction of water movements, in either marine or frash 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?		<u> </u>
	4. Change in the amount of surface water in any water body?		\mathbf{x}
	5. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to	. — ~	
	temperature, dissolved cxygen or turbidity? See Attachments B.&.C.		
	6. Alteration of the direct on or rate of flow of ground waters?		lx l
	7. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an equifer by cuts or excavations?		[x]
	8. Substantial reduction in the amount of water otherwise available for public water supplies?		X
	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?		x
Ď.	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)?		$\{\hat{\mathbf{x}}\}$
	2. Reduction of the numbers of any unique, rare or endangered species of plants?		x
	3. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?		[X]
	4. Reduction in acresge of any agricultural crop? Due to land drilling operation see		
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)?		Ŕ
	2. Reduction of the numbers of any unique, rare or endangered species of animals?		
	3. Introduction of new species of snimals into an area, or result in a barrier to the migration or movement of animals?		
	4. Geterioration to existing fish or wildlife habitat?		\square
F.	Naise. Will the proposal result in:		
	1. Increase in existing noise levels? See attachment B		
	2. Exposure of people to severe noise levels? , ,		\mathbf{X}_{i}
G.	Light and Givre. Will the proposal result in:		
	1. The production of new light or glare?		
H:	Tand Use. Will the proposal result in:		
	1. Á substantial alteration of the present or planned land use of an area?		X
i.	Natural Resources, Will the proposal result in:	•	
	1. Increase in the rate of use of any natural resources?		X
	2. Substantial depletion of any nonrenewable resources?		\mathbf{x}
	S. C. CALLACE	234	30
	A SATE OF	3.96	

J.	Risk of Upset. Does the proposal result in:	Yes	Mayb	e 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 conditions? See Attachment B - Gaha standards are collowed for drilling.			
U	2. Possible interference with emergency response plan or an emergency evacuation plan?			K.
K.	Papulation. Will the proposal result in:			
	1. The alteration, distribution, density, or growth rate of the human population of the area?			K)
L.	Housing. Will the proposal result in:			
	1. Affecting existing housing/or create a demand for additional housing?			X
M.	Transportation/Circulation. Will the proposal result in:			, -
	1. Generation of substantial additional vahicular movement?			X
	2. Affecting existing parking facilities, or create a demand for new parking?			Į.
	3. Substantial impact unon existing transportation systems?			X
	4. Alterations to present terms of circulation or movement of people and/or goods?			X
	5. Alterations to waterborne, rail, or air traffic?			V
	6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians?			X
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?			X
	2. Police protection?			X
	3. Schools?			X
T)	4. Parks and other recreational facilities?			X
	5. Maintenance of public facilities, including roads?			X
	6. Other governmental services?			X
0.	Energy. Will the proposal result in:			
	1. Use of substantial amounts of fuel or energy?			\mathbf{x}
	2. Substantial increase in demand upon existing sources of energy, or require the development of new sources?	M	$\overline{\Box}$	X
₽.	Utilities. Will the proposal result in a need for new systems, or substantial alterations to the following utilities:	_		-
	1. Power or natural gas?			x
	2. Communication systems?			X
	3. Water?			$\overline{\mathbf{x}}$
	4. Seyer or suptic tanks?			X
	5. Storm water drainage?			X
	6. Solid waste and disposal?	Ē	$\overline{\Box}$	X
Q.	Human Health. Will the proposal result in:			
	1. Crestion of any health hazard or potential health hazard (excluding mental health)?	П		Ę
	2. Exposure of people to potential health hazards?		$\overline{\Box}$	Ğ
	Aesthetics. Will the proposal result in:		حيت	
→	1. The obstruction of any scenic vista or view open to the public, or prill the proposal result in the creation of an aesthetically offensive site open to public view?			X
S.	Recreation. Will the proposal result in:	23	4.	31
	1. An impact upon the quality or quantity of existing recreational opportunities?	1 -1	1/1	[X]

		·		•	
	i T.	Cultural Resources.	Yes '	Mayb	• 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 sesthetic effects to a prehistoric or historic building, structure, or object?			X
		3. Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values?			X
		4: Will the proposal restrict existing religious or sacred uses within the potential impact area?			\mathbf{x}
1	Ų.	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?			X
		2. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals?			X
		3. Does the project have impacts which are individually limited, but cumulatively considerable?			X
		4. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			K
0. E	OIS	CUSSION OF ENVIRONMENTAL EVALUATION (See Comments Attached)			
		See attachments A,B,C & E		ā	
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		LIMINARY DETERMINATION			
ר	_	he basis of this initial evaluation:			
L	ل ـ ا	find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECL be prepared.	FARA	ION	will
	i	I find that although the proposed project could have a significant effect on the environment; there will not be a si in this case becaus∋ the mitigation measures described on an attached sheet∠have been added to the project. DECLARATION will be prepared.	gnifica A NE	int eff GATI	léct VE
E	֓֞֞֞֞֞֞֞֞֝֟֝֟֝֟֝֓֓֓֞֟֟֞֝֓֓֓֞֟֟֓֓֓֓֓֟֟֝֓֓֓֓֟֟֝֓֓֓֟֟֝֟֓֓֓֓֟֟	I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPS required.	ACT	REPO	AT 🍎
		- All to the transfer of the second s			
D	ate	ب سناها فالشار من الله الله الله الله الله الله الله الل	_23 3 / 3	<u>4.</u> 8	32