MINUTE ITEM

27

09/23/87
W 6005.3
Willard/Meier

CONSIDERATION OF APPLICATIONS FOR RENEWAL OF NON-EXCLUSIVE GEOPHYSICAL SURVEY PERMITS ON TIDE AND SUBMERGED LANDS UNDER THE JURISDICTION OF THE STATE LANDS COMMISSION

During consideration of Calendar Item 27, attached, considerable testimony was heard.

Upon motion duly made by Commission-Alternate Stancell, the Commission denied the permits without prejudice by a vote of 2-0.

This Calendar Item will be reconsidered at a Special Meeting on October 7, 1987.

LANDS FILE
EXHIBIT NO. 3045

CALENDAR ITEM

A)
) Statewide
S)

- 27

09/23/87
W 6005.3
Willard/Meier

CONSIDERATION OF APPLICATIONS FOR
RENEWAL OF NON-EXCLUSIVE GEOPHYSICAL SURVEY PERMITS
ON TIDE AND SUBMERGED LANDS UNDER THE JURISDICTION OF THE
STATE LANDS COMMISSION

APPLICANTS: See Exhibit "A".

REQUESTED ACTION: The Commission has before it requests from nineteen applicants for renewal of non-exclusive geophysical survey permits on tide and submerged lands under the Commission's jurisdiction.

STAFF RECOMMENDATION:

Staff recommends that the Commission deny renewal of the nineteen Non-Exclusive Geophysical Permits as requested. Staff further recommends approval of an amended Limited Non-Exclusive Geophysical Permit to be issued to the nineteen applicants. The amended permit would allow only those geophysical surveys which use low-energy acoustical or passive survey equipment. Such surveys would be conducted on tide and submerged lands under the jurisdiction of the State Lands Commission within permit regions I, II, III and IV as depicted on Exhibit "B" hereto.

Staff also recommends that the Commission modify five permits which expire after September 28, 1987, so that such permits are subject to the same limitations, terms and conditions as those new permits which the Commission may authorize. Such modification would be effective on October 28, 1987, after thirty days notice, as required under the current permit.

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TERMS AND CONDITIONS:

The terms and conditions of the amended permit would be as set forth in Exhibit "C". The amended permits would terminate on October 1, 1990, unless earlier renewed.

STATUTORY REFERENCES:

A. P.R.C. Section 6826.

B. Cal. Adm. Code, Title 2, Article 2.9, Section 2100.

DISCUSSION:

On May 24, 1984, pursuant to the provisions of the California Environmental Quality Act (CEQA) and Title 14 of the California Administrative Code, Division 6, Chapter 3 (the CEQA Guidelines), the Commission prepared, circulated, considered and adopted a Proposed Negative Declaration (NE 358, State Clearinghouse 8402[illegible]13), for the issuance of geophysical survey permits with initial terms of three years. At that time, the Commission found that there was no substantial evidence that the program and permits, as revised and approved, would have a significant effect on the environment. (14 Cal. Adm. Code 15074(b)).

The 36 permits issued on or after the above date were to expire on May 31, 1987. Prior to that date, the Commission received applications for renewal of a number of these permits. At its regular meeting on May 28, 1987, the Commission extended the term of the existing permits for 120 days, terminating on September 28, 1987. The purpose of the extension was to allow the Commission and its Staff to complete a series of workshops with commercial fishermen and to obtain and analyze additional information necessary for a complete evaluation of the renewal proposal now before the Commission. At this time, the Commission has before it renewal applications from nineteen permittees.

The primary issue before the Commission is whether to require the preparation of an environmental impact report (EIR) before permitting further geophysical activity. Staff recommends that the Commission require that an EIR be completed before permitting further offshore geophysical activity employing high or moderate energy acoustical pulses. This would give the Commission an opportunity to evaluate the full environmental effects of such work. However, geophysical activity employing

low energy acoustical or passive data collection equipment should be allowed to proceed, insofar as Staff has been presented with no evidence such activity may have an adverse effect on the environment.

A. GEOPHYSICAL ACTIVITY GENERALLY

The geophysical permits currently issued authorize and regulate any activity involving seismic, gravity, magnetic, electrical, and geochemical methods used to measure and record physical properties of surface and subsurface geological structures. Among the many activities for which the data obtained is used are the following: 1) engineering, design, and construction of offshore projects, such as docks, breakwaters, sewer outfalls and offshore pipelines; 2) dredging; 3) environmental research, such as the identification of hard- and soft-bottom habitat; 4) the location of ocean-bottom hazards, both natural and manmade; 5) location of cultural and archeological resources; 6) identification of shallow faulting which may indicate some earthquake hazard; and 7) performance of offshore system safety programs. Data obtained by using high energy acoustical equipment is also used for identifying geological structures which may contain oil or gas. Essentially all work offshore and many major onshore projects require the collection and analysis of offshore geophysical data.

Geophysical survey work most frequently involves the generation of acoustical waves or pulses. As these pulses reflect off different kinds of materials, other devices, called hydrophones, are used to collect the reflected signals. The different ways in which a signal is reflected provide evidence of the type of materials and geological features present. In the past, explosives were used to generate such acoustic pulses. Because the use of explosives in open waters killed large numbers of fish under certain circumstances, their use is not allowed under the permits currently issued. Technological advances now provide less damaging means of doing the work.

Oil and gas exploration requires deep subsurface information to identify strata and structures which may contain hydrocarbons. With existing technology, the amounts of energy needed to penetrate sufficiently below the surface cannot be generated except by air or water compression devices or high energy sparker systems. Hydrophones located on marine seismic cables up to two miles in length are necessary for recording the reflected acoustic signal.

Where deep, subsurface penetration is not needed, lower energy levels are employed. Smaller air and water compression

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devices and other instruments, such as some sparkers and gas exploders, are used to generate acoustic pulses of moderate energy levels. Low energy acoustic pulses are generated by side-scan sonar, sub-bottom profilers, fathometers, mini-sparkers and electro-mechanical devices. These instruments are towed on cables 30 to 1000 feet in length. Long cables for hydrophones are not needed for low energy systems.

Entirely passive data collection methods, involving the use of gravity meters or magnetometers, are also employed, although they are of limited value. Even though no energy is generated by these devices, their use is regulated under the existing permit.

B. THE ENVIRONMENTAL ISSUES

The Commission Staff has received considerable public commentary calling for completion of an EIR before further geophysical activity is permitted. The primary environmental issues concern the effect high energy acoustic pulses may have on marine life and divers.

The concern most frequently raised by commercial fishermen involves fish dispersal: i.e., the situation in which acoustic signals cause fish to disperse from their normal feeding grounds and deviate from more normal feeding and behavior patterns. Fishermen claim that, when high energy work is performed in an area, fish immediately disperse and, after a series of surveys, may vacate an area altogether. While some contend that these claims are exaggerated or not well founded, the claims have given rise to a serious controversy in the fishing community.

Three studies have been released which attempt to address the claims regarding such behavioral changes among fish. All three studies examined the effects created by the use of large air and water compression devices producing high energy acoustic pulses.

The first, completed in Norway in 1984, determined that, under certain conditions, the discharge of large, high energy acoustic pulses causes modification in fish behavior. This study, commonly called the "Norwegian" study, has been criticized as being improperly and unrealistically performed. Nevertheless, since its translation into English in 1986, it has been cited as evidence of the need for an EIR.

Another study was prepared at the behest of the Fish Dispersal Committee, which included representatives of the State Lands Commission, MMS, the Department of Fish and Game, other federal and state agencies, and the oil and fishing industries.

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Because this study lacked adequate scientific controls, its results did not clearly demonstrate whether or not fish behavior modification occurred.

The Minerals Management Service (MMS) released a third study in July of this year. The MMS study was specifically intended to address concerns in California, and the work was performed in waters off San Luis Obispo County.

As with the Norwegian study, the MMS study concluded that, under the conditions in which the work was performed, fish did change their behavior and did not immediately return to normal patterns after acoustical work stopped. Fishing with hook and line was also attempted while air compression devices were discharged nearby. Under such conditions, catch of specific rockfish species was reduced when compared with catches in the area when geophysical work was not performed.

However, as with the Norwegian study, the MMS study has been criticized as being too narrow in scope, improperly controlled, and unrealistically conducted in comparison to actual operating conditions. Many individuals and organizations nevertheless find considerable support in the study for an EIR.

Another potential environmental issue involves the effect high energy acoustic pulses may have on abalone and sea urchin divers. Potential damage to eardrums and loss of equilibrium or consciousness are the primary concerns. While substantial data exists on the subjects of underwater acoustics and standoff distances, it is not clear how much of this information may be relevant to the issues here involved. Until such data is gathered and analyzed, such as in the preparation of an EIR, the Commission will not be in a position to determine the validity of the expressed concerns. Nor will the Commission be able to determine what, if any, conditions or regulations may be appropriate in order to ensure diver safety during the performance of high energy acoustic work.

Another issue involves damage to crab and lobster traps caused by the one- to two-mile long cables used for high-energy geophysical work. These long cables are difficult to control and may entangle and break lines connecting traps with their marking buoys. If the trap cannot be located and retrieved, it will continue to collect crabs. Because crabs are scavengers and cannibalistic, dead crab in a trap will continue to attract more crab from the area until the trap itself disintegrates after four to six weeks. The problem was addressed in 1984, when the Commission required geophysical operators to avoid fishing activity. The Commission also adopted notice requirements under which the geophysical operators are required notify the fishing

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community of pending surveys in order to identify and avoid potential conflicts. Nevertheless, problems still occasionally arise.

The shorter cables of 30 to 1000 feet employed in low energy geophysical work do not present a problem for crab and lobster fishermen because the shorter cables are more easily controlled. The Commission Staff has never in fact been presented with a complaint involving the shorter cables.

CEQA provides that an EIR must be completed before a project is approved where there is substantial evidence the project may have a significant effect on the environment. The results of the Norwegian and MMS studies and fishermen's claims regarding fish dispersal, although contested, may be considered sufficient evidence of a potentially significant impact, insofar as they show at least some modification of fish behavior. The concerns raised by divers and the potential impacts on crab trapping posed by the long cables used for high energy acoustical work also support the position that an EIR must be prepared.

While the fish dispersal studies have been criticized and the claims by fishermen and divers disputed, the controversy itself may be considered support for an EIR. The CEQA Guidelines provide that, where it is not clear whether there is substantial evidence that a project may have a significant effect on the environment and where a serious public controversy over the project's environmental effects has arisen or experts disagree over whether the projects environmental effects are serious, an EIR should be prepared. In this case, the Commission is faced with both a disagreement among experts and a serious environmental controversy.

Other environmental issues have been raised with respect to geophysical activity involving acoustic pulses of high and moderate energy levels. Nevertheless, the issues raised above are sufficient in Staff's opinion to justify the preparation of an EIR before the Commission permits any further geophysical activity which employs high or moderate energy acoustic pulses.

C. SCOPE OF THE EIR

Staff is recommending that the proposed EIR address the potential environmental effects of the use of high and moderate energy acoustic devices, because the use of such devices has given rise to controversy. All evidence of potential adverse effects has been directed toward the use of such equipment. Furthermore, all of the studies addressing fish dispersal have been confined to the effects of high energy acoustic pulses,

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producing energy levels of 50 to several hundred kilojoules of energy. Other studies concerning the effects of geophysical activity on eggs and larvae were similarly directed solely toward high energy acoustic pulses.

Staff has never heard a complaint or comment with respect to any work using side-scan sonar, sub-bottom profilers, or low energy mini-sparkers or electro-mechanical devices. Nor has Staff been presented with any evidence, substantial or otherwise, that low energy acoustic pulses cause any potentially adverse environmental effects. The energy levels involved with these acoustic sources are less than 2 kilojoules. For comparison, the acoustic energy levels produced by a typical diesel power sport fishing or recreational boat are approximately 2 to 5 kilojoules.

The use of low energy devices also does not involve the use of long cables. The lower the energy levels employed, the closer the signal-collection equipment will be to the geophysical vessel. The low energy levels here contemplated would involve cables no longer than 1000 feet. Such cables are sufficiently maneuverable to preclude physical conflicts. No physical conflicts with such short cable lengths have ever been reported to Commission Staff.

Low energy work is also necessary for environmental work, particularly in identifying hard- and soft-bottom habitat, oceanbottom topography, and underwater geological hazards and debris. Work for the benefit of the fishing and diving industries, such as harbor development and maintenance, dredging, and topographical surveys, also requires data from low energy geophysical activity. It is therefore Staff's opinion that a comprehensive prohibition of all geophysical work would be unnecessary and inappropriate.

D. STAFF'S RECOMMENDATION

Based on the foregoing, the analysis within the previously certified Negative Declaration, and public comments received, low energy or passive geophysical work should be permitted to continue under the provisions and conditions of the Commission's permit, as amended and contained in Exhibit C.

The same cannot be recommended for geophysical activities employing high energy sources. The serious public controversy which has recently arisen, the current studies which have shown potential effects on fish dispersal, claims from the fishing and diving communities, and the general disagreement among experts on the issues lead the Commission Staff to recommend completion of an EIR before further offshore high energy work is authorized.

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The permit recommended by Staff would limit the energy levels of the acoustic pulses generated during geophysical activities to 2 kilojoules. No potential for adverse environmental effects has been identified at that level. The energy-level limitation would permit the use of electro-mechanical devices and mini-sparker systems, which produce up to 2 kilojoules of acoustic energy; sub-bottom profilers and side-scan sonar, which produce almost no acoustical energy; and entirely passive geophysical devices, such as gravity meters and magnetometers. Given current technology, no air or water compression devices could be used.

While adverse environmental impacts would also likely be avoided even at higher levels, Staff has insufficient data to determine the level at which the potential for harm may begin to arise. The 2-kilojoule limit therefore avoids any potential for adverse effects.

On March 16, 1987, Staff recirculated the Negative Declaration previously certified by the Commission in 1984 with respect to all offshore geophysical activity. The recirculated Negative Declaration included a supplemental fisheries discussion regarding dispersal and potential impacts to the eggs and larvae of commercial species. In response, Staff received numerous comments from commercial fishing and diving organizations and various public agencies, including Santa Barbara, San Francisco, and Mendocino Counties and the Coastal Commission, each of which called for preparation of an EIR. However, all such comments were directed solely toward issues arising from high energy acoustical work.

CONCLUSION

Staff believes that completion of an EIR is necessary and appropriate before the Commission permits any further offshore geophysical activity involving the generation of high energy acoustic pulses. Geophysical work entailing moderate energy acoustic pulses, from 2 to 50 kilojoules, should also be prohibited because of the uncertainty regarding the environmental effect. The potential for environmental impact decreases as lower energy levels are employed, but the level at which all potential harm is avoided cannot be determined with exactitude, given present data.

Nevertheless, when acoustic energy levels of less than 2 kilojoules are generated, no environmental risks are apparent. Staff therefore recommends that such low energy work be allowed to proceed.

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EXHIBIT
A. List of Applicants
B. Permit Regions
C. Permit Form

IT IS RECOMMENDED THAT THE COMMISSION:

1. FIND THAT THE DENIAL OF THE APPLICATIONS FOR RENEWAL OF NON-EXCLUSIVE GEOPHYSICAL SURVEY PERMITS, AS REQUESTED BY THE NINETEEN APPLICANTS IS EXEMPT FROM THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO SECTION 15270 OF THE GUIDELINES, IN THAT CEQA DOES NOT APPLY TO PROJECTS WHICH A PUBLIC AGENCY REJECTS OR DISAPPROVES.

2. DENY THE APPLICATIONS FOR RENEWAL OF NON-EXCLUSIVE GEOPHYSICAL SURVEY PERMITS, AS REQUESTED BY THE APPLICANT LISTED IN EXHIBIT A.

3. DETERMINE THAT ON MAY 24, 1984, A NEGATIVE DECLARATION, ND 358, STATE CLEARINGHOUSE 84020113, WAS CONSIDERED AND ADOPTED FOR THE PROGRAM UNDER WHICH ISSUANCE OF THIS PERMIT IS PROPOSED PURSUANT TO THE PROVISIONS OF CEQA AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN AND THE COMMENTS IN THE COMMISSION'S FILES WHICH WERE RECEIVED IN RESPONSE THERETO.

4. DETERMINE THAT THERE IS NO SUBSTANTIAL EVIDENCE THAT THE PROGRAM UNDER WHICH ISSUANCE OF THE PERMIT IS PROPOSED, AS REVISED AND APPROVED, WILL HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.

5. FIND THAT THE ACTIVITIES AS PROPOSED ARE CONSISTENT WITH THE USE CLASSIFICATIONS DESIGNATED FOR THE LANDS PURSUANT TO P.R.C. 6370 ET. SEQ.

6. AUTHORIZE THE ISSUANCE OF LIMITED NON-EXCLUSIVE GEOPHYSICAL PERMITS IN THE FORM AS SHOWN IN EXHIBIT C, ATTACHED HERETO, TO THE APPLICANTS LISTED ON EXHIBIT A, SUCH PERMITS PROVIDING THAT THE PERMITTEE MAY OPERATE ONLY SUCH GEOPHYSICAL SURVEY EQUIPMENT IN STATE WATERS WHICH PRODUCES ACOUSTICAL ENERGY OF NO MORE THAN TWO KILOJOULES, AS DETERMINED BY MEMBERS OF THE COMMISSION STAFF.

7. DETERMINE THAT, BEFORE THE COMMISSION WILL CONSIDER THE USE OF GEOPHYSICAL SURVEY EQUIPMENT NOT PERMITTED UNDER THE PROPOSED PERMIT, AN ENVIRONMENTAL IMPACT REPORT MUST BE COMPLETED, IN COMPLIANCE WITH CEQA, CONCERNING THE POTENTIAL ENVIRONMENTAL EFFECTS OF THE USE OF SUCH GEOPHYSICAL

EQUIPMENT.

8. DIRECT THAT ALL PERMITS HERE AUTHORIZED, PRESENTLY OUTSTANDING, OR HEREAFTER ISSUED, SUBJECT TO SUBSEQUENT MODIFICATION BY THE COMMISSION, TERMINATE ON OR BEFORE SEPTEMBER 30, 1990, UNLESS RENEWED AT THAT TIME.

9. DIRECT THAT, EFFECTIVE OCTOBER 23, 1987, THOSE PERMITS WHICH WILL NOT TERMINATE ON SEPTEMBER 28, 1987, WHICH ARE HELD BY THOSE NON-APPLICANT PARTIES LISTED ON EXHIBIT "A", SHALL BE MODIFIED, PURSUANT TO SECTION 14 OF SUCH PERMITS, SO THAT THEY CONFORM TO THE PERMITS HERE AUTHORIZED, IN THE FORM AS SHOWN IN EXHIBIT "C", ATTACHED HERETO.

DECISION PAGE 158.9
DATE ISSUED 3055

EXHIBIT "A"

A. APPLICANTS: Those parties who have submitted applications for renewal of their permits.

PERMIT NUMBER	APPLICANT
PRC 6623	Phillips Petroleum
6624	ARCO Oil and Gas
6628	Cities Services, Inc.
6631	Chevron USA
6634	Digicon Geophysical Corp.
6636	Meridian Ocean Systems
6637	Mobil Oil Corp.
6639	Pelagos Corp.
6647	Shell Western E & P, Inc.
6650	Union Oil Company of Cal.
6651	Western Geophysical Company of Am.
6654	Texaco USA
6661	Geophysical Service, Inc.
6663	Exxon Company USA
6667	Harding Lawson Associates
6701	Ocean Surveys Inc.
7039	Eco Systems Management Assoc.
7100	Geo 3, Inc.
7101	Land and Sea Surveyors

B. NON-APPLICANT PARTIES: Those parties holding permits which expire after September 28, 1987.

PERMIT NUMBER	NON-APPLICANT PARTIES
PRC 6626	USGS
6628	Criterion
6887	Scientific Surveys
6922	University of Southern California
6963	Sea Surveyor

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EXHIBIT "B"

PERMIT REGIONS

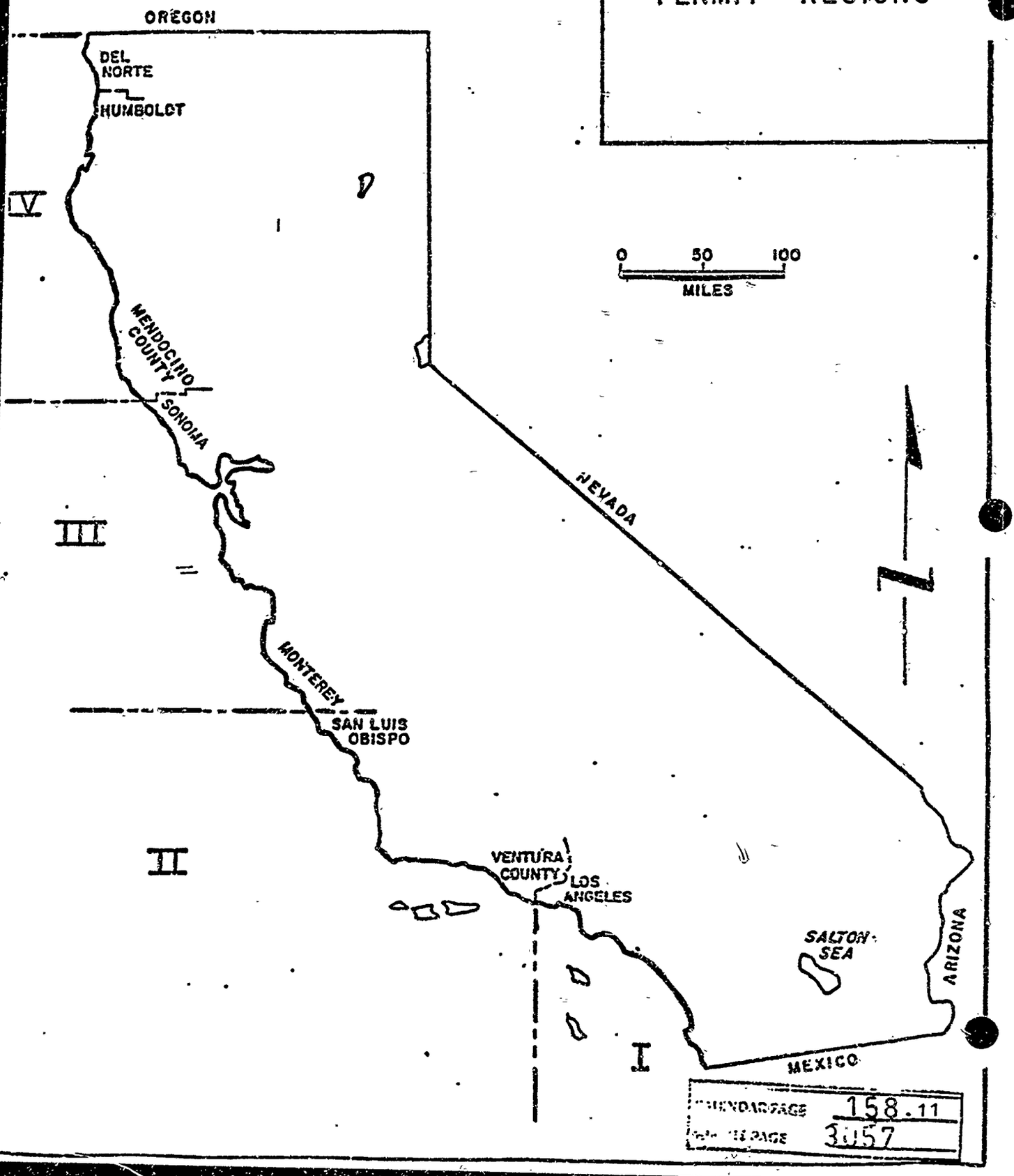

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EXHIBIT "C"

W_____

PRC_____

STATE LANDS COMMISSION
STATE OF CALIFORNIA
SURVEY PERMIT P.R.C.
GENERAL PERMIT TO CONDUCT GEOPHYSICAL SURVEYS

Pursuant to Division 6 of the California Public Resources Code and Title 2 of the California Administrative Code, the State of California, acting by and through the State lands Commission (State) hereby issues to_____ (Permittee) a non-exclusive geophysical survey permit subject to the following terms and conditions:

TERMS AND CONDITIONS

1. Permit Area: This permit covers offshore state waters, excluding inland waterways, known as Regions I, II, III and IV, as described below, and within state tide and submerged lands between the Mexican and Oregon borders out to three (3) nautical miles:

A. Region I - the area between the Mexican Border and the Los Angeles/Ventura County line;

B. Region II - the area between the Los Angeles/Ventura County line and the San Luis Obispo/Monterey County line;

C. Region III - the area between the San Luis Obispo/Monterey County line and Sonoma/Mendocino County line, excluding San Francisco, San Pablo, and Suisun Bays; and,

D. Region IV - the area between the Sonoma/Mendocino County line and the Oregon Border.

The above Regions are outlined on the map attached as Exhibit A.

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2. Term of Permit: This permit shall commence on the first day of the month following the month in which it is authorized by the State Lands Commission, and shall continue until September 30, 1990, unless terminated sooner as provided in this permit.

3. Scope of Activities: Permittee shall comply with the terms of this permit whenever the equipment specified in Section 4 is deployed or geophysical data are to be collected within the permit area. Geophysical surveys shall include seismic, gravity, magnetic, electrical and geochemical methods of measuring and recording physical properties of subsurface geologic structures.

4. Equipment/Survey Methods: Permittee is authorized under this permit to collect geophysical data utilizing such equipment as is set forth on Exhibit B.

5. Multiple Use: This permit is nonexclusive and is issued subject to all existing valid rights at the date of this permit. Such rights shall not be affected by the issuance of this permit. The State shall have the right to issue additional, non-exclusive survey permits and leases or other entitlements for uses which are not inconsistent with this permit.

6. Operations:

A. Permittee shall conduct all activities with due regard for the preservation of the property covered by this permit, potential environmental impacts, peak fishing seasons and with due caution to minimize damage to third parties.

B. Geophysical acoustic pulse-generating equipment shall not be started in State waters when whales are observed within two kilometers of Permittee's geophysical boat.

C. On the first day of each survey, the Permittee shall use a boat to scout the area to be covered within the first 24 hours of operations for the purpose of searching for and avoiding potential conflicts with commercial fishing activities or equipment.

D. Permittee shall have at least one person on board each vessel during survey operations that has attended a Fisheries and Environmental Training Program.

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7. Observers: The State may require the Permittee to furnish food, quarters, and marine transportation, if necessary, for a State representative on any vessel conducting operations authorized by this permit. The State representative may observe and inspect all operations conducted pursuant to this permit.

If the State representative notes permit violations or determines adverse effects are being caused or are imminent, the representative may recommend suspension of activities to the Executive Officer. Upon approval of the Executive Officer, the representative may carry out suspension of the activities allowed under this permit pursuant to Section 14.

8. Notification Procedure: The Permittee shall follow the complete notification procedure set forth in Exhibit B for all geophysical surveys where equipment is deployed "over-the-side" of the vessel. This notice shall include the information required under Exhibit C, Section B, Contents of Notice, and in the format displayed in Exhibit E.

For all other geophysical surveys covered by this permit, the Permittee shall notify the State a minimum of ten (10) days before commencing the survey.

9. Data Submission and Examination:

A. The Permittee shall submit a field operations report, in a form that is attached hereto as Exhibit D, to the State as soon as possible, but not more than thirty (30) days after the completion of any survey activities conducted under this permit. Information required includes:

(1) A narrative description of the work performed, the data obtained, and the logs produced from the operations;

(2) Charts, maps, or plats indicating the areas in which any exploration was conducted, specifically identifying the lines of geophysical traverses, (pre-plot map(s) may be used provided it accurately depicts the area and lines surveyed), accompanied by a reference sufficient to identify the data produced from each activity;

(3) The dates and times during which the actual exploration was performed;

(4) The nature and location of any environmental hazards;

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(5) A description of any accident, injury, damage to or loss of property which resulted from the reported activities; and,

(6) Such other information relative to the permitted activities as may be requested.

B. Permittee shall make available, upon request, and the Commission shall have the right to inspect and/or copyfactual and physical survey results, logs, records, field acquired data, processed records or any other data/information resulting from operations under this permit. These data and information shall include, but are not limited to, geophysical data from:

(1) Deep seismic reflection ("Common Depth Point") and refraction;

(2) High resolution systems including but not limited to bathymetry, side-scan sonar, sub-bottom profiler, and electro-mechanical devices;

(3) Film negatives and/or blackline or blueline paper copies of final stacked sections and migrated sections. Paper copies and film negatives of sections chosen for State use shall be made at one-half scale, (2 1/2 inches per second);

(4) Post-plot maps at a reasonable and appropriate scale for the dimensions of the survey and whenever possible a scale of 1:48,000 (1 inch equals 4000 feet). A narrative summary of accuracy of shot points and ship tracks;

(5) Copies of navigation tapes and velocity tapes with narrative summary of accuracy of shot points and ship tracks;

(6) Gravity data reduced or compiled as Free-Air or Bouguer maps whenever possible or in profile form. Magnetometer data corrected for International Geomagnetic Reference Field in profiles or whenever possible in map form. Data to include how reductions and corrections were made; and

(7) Any other systems/devices used to detect or imply the presence of mineral resources including oil or natural gas. The State Lands Commission shall reimburse the Permittee for the reasonable costs of reproducing any data or information.

C. In the event that information or data obtained under this permit are transferred from the Permittee to a third party, or, subsequently, from a third party to another third party, the transferor shall notify the State and shall require the receiving third party, in writing, to expressly agree to

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abide by the obligations of the Permittee under Section 9 of this permit as a condition precedent to the transfer of the information or data.

D. The following definitions apply to words used in this section:

(1) Factual or physical survey results include all data and information gathered as the result of any and all operations conducted under this permit by whatever means.

(2) Data means all facts, statistics or samples.

(3) Processed Records mean data collected under a permit which have been processed. Processing involves changing the form of data so as to facilitate interpretation. Processing operations include, but are not limited to, applying corrections for known perturbing causes, rearranging or filtering data, and combining or transforming data elements.

E. The Commission reserves the right to disclose any data or information acquired from Permittee to an independent contractor or agent for the purpose of reproducing, processing, reprocessing, or interpreting such data or information for the use of the Commission. Such data and information, as well as products derived therefrom, shall be held confidential as required by Public Resources Code Section 6826(c).

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10. Third Party Damage Claims:

A. Permittee shall make a good-faith effort to settle all claims brought by third-parties for damages resulting from Permittee's geophysical activities.

B. The State Lands Commission may consider and determine any claims for damage to commercial fishermen resulting from Permittee's geophysical activities where such claim is submitted to it in writing after 60 days following written demand and proof of claim to the Permittee. If the Commission determines that the Permittee owes the claimant damages, for the purposes of this permit, Permittee's obligation to pay the claimant shall also be considered an obligation to the Commission.

11. Bond: Permittee shall furnish, and maintain, until released by the State, a bond or letter of credit in the sum of twenty-five (25) thousand dollars, in favor of the State, for its exclusive use and benefit, to guarantee the faithful performance

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by the Permittee of this Permit's terms and conditions and satisfaction of third-party damage claims. The bond or letter of credit shall be delivered to the State at the address specified in Section 16, prior to the effective date of this permit.

The bond or letter of credit shall be noncancellable and shall, by its own terms, remain in effect until at least ninety days after the termination date of this permit, unless earlier released by the State.

12. Insurance: At the option of the State, Permittee shall submit a certificate of self-insurance or procure and maintain liability property damage, or other insurance, for the benefit of the State in an amount satisfactory to the State.

13. Indemnity: Permittee agrees to indemnify, save harmless and, at the option of the State, defend the State of California, its officers, agents and employees against any and all claims, demands, causes of action, or liability of any kind which may be asserted against or imposed upon the State of California or any of its officers, agents or employees by any third person or entity arising out of or connected with Permittee's operations hereunder.

14. Modification, Revocation, or Suspension: The activities provided for in this permit may be suspended, in whole or in part, upon a finding by the Executive Officer of the State Lands Commission, or another person designated by the Executive Officer, that suspension of the activity authorized by this permit would be in the public interest. Such suspension shall be effective upon receipt by Permittee of a written or oral (to be confirmed in writing) notice thereof which shall indicate (1) the extent of the suspension (2) the reasons for this action, and (3) any corrective or preventive measures to be taken by Permittee deemed necessary by the Executive Officer, or designee, to meet the general public interest.

Permittee shall take immediate action to comply with the provisions of the suspension. Permittee may request a hearing before the State Lands Commission in order to present information relevant to a decision as to whether his permit should be reinstated, modified, or revoked.

This permit may be modified or revoked by the State Lands Commission upon thirty (30) days' notice. Any suspension, modification, or revocation of this permit shall not be a basis for any claim for damages against the State of California.

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Proper grounds for modification, revocation or suspension include, but are not limited to, a finding by the Commission, following a noticed public hearing, that the permittee(s) or their representatives are not cooperating adequately to ensure the timely planning and completion of the scientific and technical evaluations as required by the Commission.

15. Permits: Permittee shall obtain all necessary and applicable permits and obey all laws and regulations applicable to the conduct of operations under this permit.

16. Notices: All written notices to the State or Permittee which are not part of the notification procedure identified in Section 8 shall be deemed to have been fully given when made in writing, and deposited in the United States mail, with first class postage prepaid, addressed as follows:

To the State:

State Lands Commission
245 West Broadway, Suite 425
Long Beach, CA 90802-4471
Attention: Geophysical Coordinator

To the Permittee:

_____
_____
_____
Attention: _____

The address to which notices shall be mailed may be changed by written notice, as is provided in this paragraph.

17. Assignment: Permittee may not assign, sublease or transfer this permit or any interest therein without prior Commission approval. However, Permittee may subcontract part or all of the work to be performed. Any such subcontractor shall be the agent of Permittee and Permittee shall remain responsible to the State under the terms of this permit.

18. Successors: If for any reason this permit is transferred by operation of law or otherwise, it shall apply to and bind the heirs, successors, executors, administrators and assigns of all of the parties to this permit. All parties to this permit shall be jointly and severally liable under the terms of this permit.

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IN WITNESS WHEREOF, the parties hereto have executed this permit as of the date entered below.

STATE OF CALIFORNIA
STATE LANDS COMMISSION

Date

Chief, Extractive Development

PERMITTEE*

Date

By: _____

Title _____

Address

City and State

*In executing this document, the following is required:

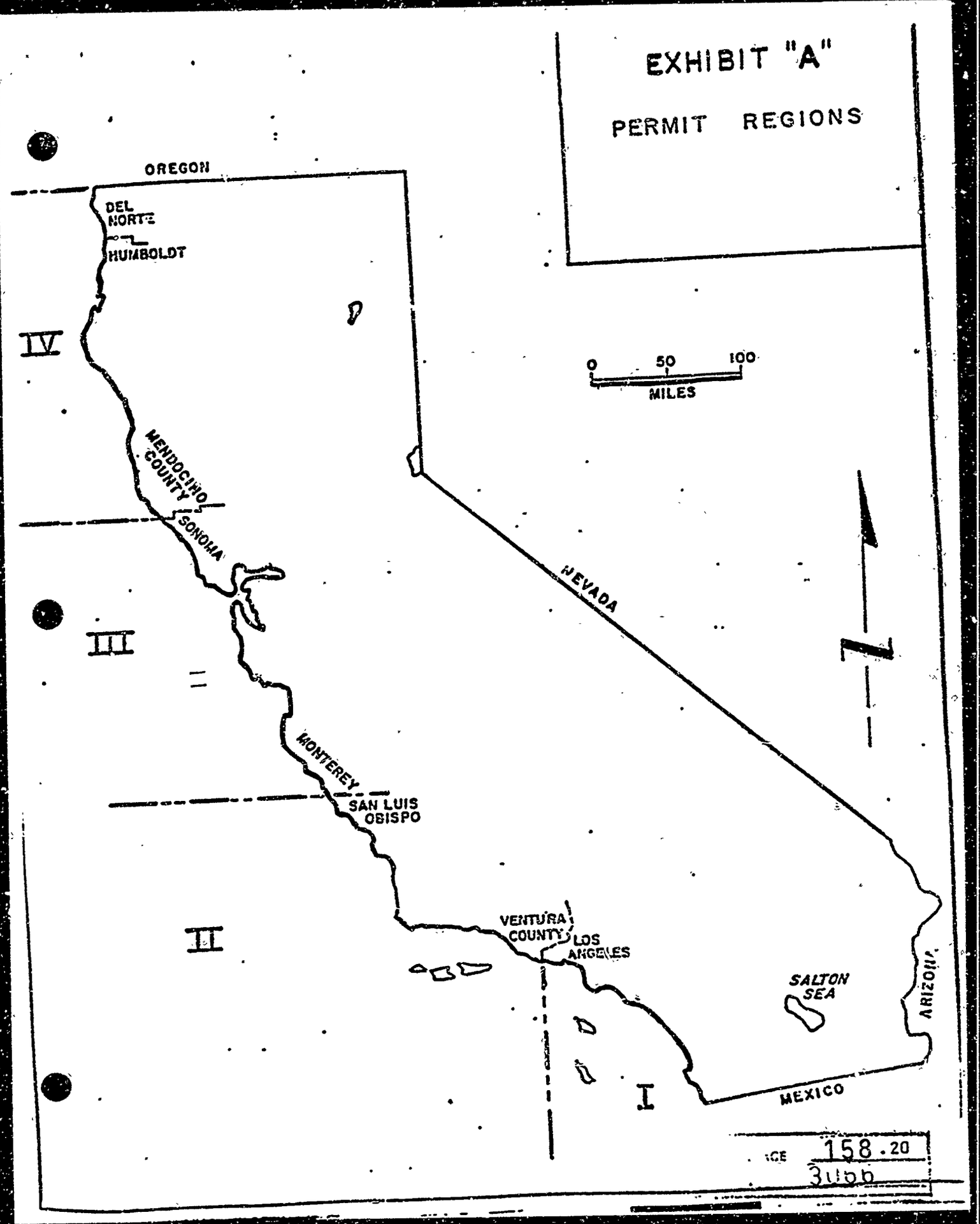
Corporations: Certificate of Corporate Secretary providing that the Board of Directors authorized the execution of this permit specifically or authority to execute documents of this type generally. An example of the type of form required is attached as Exhibit E.

Individuals: Acknowledgment of signature is required.

...ICE 158.19
... 3055

EXHIBIT "A"

PERMIT REGIONS



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3056

EXHIBIT B

AUTHORIZED EQUIPMENT AND SURVEY METHODS

Under this permit, Permittee is authorized to collect geophysical data utilizing sniffers, electro-mechanical and pizeo-electric equipment, and nonexplosive acoustic pulse-generating and receiving methods.

Notwithstanding the above, the permittee is prohibited from operating in state waters any and all geophysical survey equipment producing acoustical energy of more than two kilojoules. Any question or uncertainty as to whether particular survey equipment produces acoustical energy of more than two kilojoules shall be determined by the Staff of the State Lands Commission.

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EXHIBIT C

NOTIFICATION PROCEDURES

The State may, upon 30-days' notice to Permittee, prescribe additional or different procedures to be followed by the Permittee.

A. General Requirements: Whenever surveys are to be commenced under this permit, Permittee shall give notice in the following manner:

1. At least 15 days, but no more than 21 days, in advance of any actual operations, written notice of the proposed operations must be received by the parties specified in Paragraph C. An exception may be made by the Executive Officer, or his/her designee, if the Permittee demonstrates the area to be surveyed is clear of commercial fishing activities and equipment. In this case, the Permittee shall use a boat to scout the area for the remainder of the above notification period unless the Executive Officer or designee is assured that all commercial fishermen have had adequate opportunity to work out conflicts with the Permittee.

2. One working day in advance of the actual operations, the Permittee shall inform the State's Geophysical Coordinator (213/590-5201), by telephone, to confirm the receipt of required notices by the parties listed in Paragraph C. The Permittee shall also advise what responses, if any, were received. The Permittee shall also send to the State's Geophysical Coordinator a copy of any final preplot of the survey, which shall reflect any changes made in the planned survey.

3. Permittee shall use its best efforts to notify the parties listed in Paragraph C and any other affected individuals of substantial addition, modification, deviation, delay, or cancellation, concerning the survey area or survey dates, in the original notice. Permittee shall notify the State Lands Commission of such modifications or delays prior to their occurrence.

4. Permittee shall notify the State's Geophysical Coordinator by telephone within one working day of completion of the survey activity.

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B. Contents of Notice: The written notification required shall include information in the formal requested in Exhibit D and outlined below:

1. The name of the vessel, the name of the ship's captain/designee, the ship's call signs and the specific radio channel which will be monitored by the vessel at all times during operations authorized by this permit;

2. The exact dates through which the survey will be conducted within any given specific area of the general permit area and the daily hours of operation during such period;

3. A full-sized navigation chart (with Loran C notation, if available) showing the area to be affected by the survey, including turning area;

4. A listing of equipment to be used in the survey and length(s) of the tow(s);

5. The name and telephone number of a representative of the Permittee who can resolve multiple-use conflicts; and

6. The name and telephone number of the State Lands Commission Geophysical Coordinator.

The copy of the notice to the State Lands Commission must contain the above information, as well as the proposed tracklines, to be run and the proprietary owner of the data/information collected.

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C. Parties to Receive Notice: The following parties are to receive the notice specified in Paragraph A.1. This list will be modified periodically by the Commission Staff upon 15 days notice by the State's Geophysical Coordinator.

REGION I: Notification must be sent, as specified in the notification format, to the following parties for operations in Region I:

GOVERNMENT OFFICES AND UNIVERSITIES

In addition to notification, permitee shall coordinate all activities to be conducted under this permit with the following agencies.

MMS Representative
William F. Roberts
Regional Supervisor
1340 West Sixth Street
Los Angeles, CA 90017
(213) 894-2500

California Coastal Commission
631 Howard St., 4th Floor
Energy Division
San Francisco, CA 94105
Attn: Susan Hansch
(415) 543-8555

California Department of Fish & Game
245 West Broadway
Long Beach, CA 90802
Attn: Regional Manager, John L. Baxter
(213) 590-5132

Environmental Protection Agency
215 Fremont Street
Mail Code W51
San Francisco, CA 94105
Attn: Patricia Ekland
(415) 974-8283

National Marine Fisheries Service
300 South Ferry Street,
Room 2011
Terminal Island, CA 90731
Attn: Chief of Habitat & Environmental Branch,
Jim Slawson
(213) 548-2517

U.S. Air Force
Western Space & Missile Center
WSMC/SE
Vandenberg Air Force Base, CA 93437
Attn: Offshore Manager
(805) 866-3602

U.S. Coast Guard Commander
11th Coast Guard District
400 Oceangate
Long Beach, CA 90822
Attn: Aids to Navigation (oan)
(213) 590-2222

U.S. Fish and Wildlife Service
24000 Avila Road
Laguna Niguel, CA 92677
Attn: OCS Coordinator,
John Wolfe
(714) 831-4270

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U.S. Navy
Commander, FACSFAC
Naval Air Station, North Island
San Diego, CA 92135
Attn: Oil Liaison Officer
(619) 437-6850 or 6866

U.S. Navy Commander
Pacific Missile Test Center
Point Mugu, CA 93042
Attn: Code 3204
(805) 989-8731

University of California, San Diego
Scripps Institute of Oceanography
Mail Stop A-010
La Jolla, CA 92093
Attn: Associate Director,
George G. Shor, Jr.
(619) 534-2230

For operations south of the San Diego/Orange County Line, a notification must also be sent to:

Area Marine Advisor
5555 Overland Ave. - Bldg. 4
San Diego, CA 92123
(619) 694-2845

HARBORMASTER'S OFFICES

Notify only those harbormaster's offices within 100 miles of the proposed survey [illegible] physical surveys, the envelope shall be prominently labeled "SURVEY NOTICE - POST IMMEDIATELY"

Harbor Manager
3900 Pelican Way
Oxnard, CA 93030
(805) 984-8695

Harbormaster's Office
1603 Anchors Way Drive
Ventura, CA 93001
(805) 642-8618
(805) 488-3677

Harbormaster's Office
280 Marina Way
Redondo Beach, Ca 90277
(213) 372-1171

Harbormaster's Office
Breakwater
Santa Barbara, CA 93109
(805) 963-1737

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Harbormaster's Office
Oxnard Harbor District
P.O. Box 608
Port Hueneme, CA 93041

Oceanside Harbor District
1540 Harbor Drive
North Oceanside, CA 92054
Attn: Harbor Police
(619) 722-1419

Port of San Diego
Chief of Harbor Police
P.O. Box 488
San Diego, CA 92112
(619) 291-3900

Orange County Harbor Department
Dana Point Harbor
Dana Point, CA 92629
(714) 496-2242

COMMERCIAL FISHING ORGANIZATIONS

California Coastal Operators Group
121 Gray Avenue, Suite 3
Santa Barbara, CA 93101
Attn: Carolyn Hubble
(805) 966-7113

International Seafood Market
3920 W. Channel Islands Blvd.
Oxnard, CA 93030
(805) 985-5374

California Gillnetter's Association
1423 Silvius
San Pedro, Ca 90731

North Harbor Landing
4904 North Harbor Drive
San Diego, CA 92106
(619) 224-9671

Chesapeake Fish Co., Inc.
535 Harbor Lane
San Diego, CA 92101

Pacific Coast Federation of Fishermen's Associations, Inc.
P.O. Box 1626
Sausalito, CA 94965
Attn: W.F. Grader, Jr.
(415) 331-5080

Commercial Fisherman's Association of Santa Barbara
c/o Fish Market
119 Harbor Way
Santa Barbara, Ca 93109
Attn: Tom Dabney
(805) 966-4494

Dana Point Fuel Dock
34661 Puerto Place
Dana Point, CA 92629

San Diego Fish Co., Inc.
585 Harbor Lane
San Diego, CA 92101
(619) 232-2095

Fisherman's Cooperative Assoc. of San Pedro
Berth 73
San Pedro, CA 90731
(213) 832-5377

Sportsment's Sea Food
1617 Quivira Road
San Diego, CA 92109
(619) 224-3551

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Fishermen's Quay Corp.
1449-F Spinnaker Drive
Ventura, CA 93001
(805) 644-8286

Fishermen's Union of America
Pacific and Caribbean Area
640 State Street
San Diego, CA 92101

Harbor Fish Market
282 S. Harbor Drive
Oceanside, CA 92054
(619) 722-8441

Pacific Fishery Management Council
2000 S.W. 1st Ave., #420
Portland, Oregon 97201
Attn: Lawrence D. Six
(503) 221-6352

Southern California Lobstermen's Association
356 Sunset Dr.
Encinitas, CA 92024

G-Street Pier
Attn: John Heying
814 Daphne Ct.
Carlsbad, CA 92008

San Diego Sportfishing Assoc.
4385 Cape May Ave.
San Diego, CA 92107
Attn: Cary Black

Union Oil Fuel Dock
Breakwater
Santa Barbara, CA 93109
(805) 962-7186

Wayman Fish Co.
1449-D Spinnaker Drive
Ventura, Ca 93001
(805) 644-0425

Western Enterprises
1423 Silvius St.
San Pedro, CA 90731
Attn: Tony West
(213) 832-6143

San Diego Fishermen's Association
1446 Front St.,
Suite 306
San Diego, CA 92101
(619)234-3901

Pacific Shellfish Co.
6361 Yarrow Drive
Carlsbad, CA 92008

Kelco
2145 E. Belt St
San Diego, CA 92113
Attn: Dr. Ron McPeak

Six copies must be sent to University of Southern California Marine Advisory Services, 820 S. Seaside Avenue, Terminal Island, CA 90731, (213) 830-6328.

Notices will be posted at the following locations:

a. General Fishermen's Service, Inc., Terminal Island, CA
b. Hy-C-Tane Corp., San Pedro, CA
c. Jankovich & Sons, San Pedro, CA
d. Pioneer Fish co., San Pedro, CA
e. State Fish Co., San Pedro, CA

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REGION II: Notification must be sent, as specified in the notification format, to the following parties for operations in Region II.

GOVERNMENT OFFICES AND UNIVERSITIES:

In addition to notification, permitee shall coordinate all activities to be conducted under this permit with the following agencies.

MMS Representative
William F. Roberts
Regional Supervisor
1340 West Sixth St.
Los Angeles, CA 90017
(213) 894-2500

California Coastal Commission
631 Howard St., 4th Floor
Energy Division
San Francisco, CA 94105
Attn: Susan Hansch
(415) 543-8555

California Department of Fish & Game
245 West Broadway
Long Beach, CA 90802
Attn: Regional Manager,
John L. Baxter
(213) 590-5132

Environmental Protection Agency
215 Fremont Street
Mail Code W51
San Francisco, CA 94105
Attn: Patricia Ekland
(415) 974-8283

National Marine Fisheries Service
300 South Ferry Street,
Room 2011
Terminal Island, CA 90731
Attn: Chief of Habitat & Environmental Branch,
Jim Slawson
(213) 548-2517

U.S. Air Force
Western Space & Missile Center
WSMC/SE
Vandenberg Air Force Base, CA 93437
Attn: Offshore Manager
(805) 866-3602

U.S. Fish and Wildlife Service
24000 Avila Road
Laguna Niguel, CA 92677
Attn: OCS Coordinator,
John Wolfe
(714) 831-4270

U.S. Navy
Commander, FACSFAC
Naval Air Station, North Island
San Diego, CA 92135
Attn: Oil Liaison Officer
(619) 437-6850 or 6866

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For operations in the areas listed below, a notification must also be sent to:

* Los Angeles/Ventura County Line to the San Luis Obispo/Montery County Line.

Area Marine Advisor
377 Storke Road
Goleta, CA 93117
(805) 968-2149

* Santa Barbara Channel

California Department of Fish and Game
1350 Front Street, Room 6042
San Diego, Ca 92101
Attn: John Duffy
(619) 237-7311

* South of Point Conception

U.S. Navy
Commander, Pacific Missile Test Center
Point Mugu, CA 93042
Attn: Code 3204
(805) 989-8731

* North of Point Conception

California Department of Fish and Game
213 Beach Street
Morro Bay, CA 93442
Attn: Unit Manager
(805) 772-3011

* South of Point Arguello

University of California, San Diego
Scripps Institute of Oceanography
Mail Stop A-010
La Jolla, CA 92093
Attn: Associate Director,
George G. Shor, Jr.
(619) 534-2230

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* South of Santa Barbara/San Luis Obispo County Line

U.S. Coast Guard
Commander, 11th Coast Guard District
400 Oceangate
Long Beach, CA 90822
Attn: Aids to Navigation (oan)
(213 590-2220

* North of Santa Barbara/San Luis Obispo County Line

Commander (oan)
12th Coast Guard District
Coast Guard Island
Alameda, CA 94501-5100
(415) 437-3506

* Morro Bay and Vicinity

AT&T Communications
412 Mt. Kemble Ave., Rm N420
Morristown, NJ 07960
Attn: Manager, Mr. Jeffrey Ewald
(201) 644-6346

* North of San Simeon

U.S. Navy, CPWP
Naval Air Station, Moffett Field, Building 300
Moffett Field, CA 94035
Attn: Code 33
(415) 966-5606

HARBORMASTER'S OFFICES

Notify only those Harbormaster's offices within 100 miles of the proposed survey. For geophysical surveys, the envelope shall be prominently labeled "SEISMIC SURVEY NOTICE - POST IMMEDIATELY"

Harbor Manager
3900 Pelican Way
Oxnard, CA 93030
(805) 984-8695

Harbormaster's Office
1603 Anchors Way Drive
Ventura, CA 92001
(805) 642-8618
(805) 488-3677

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Harbormaster's Office
280 Marine Way
Redondo Beach, Ca 90277
(213) 372-1171

Harbormaster's Office
Breakwater
Santa Barbara, CA 93109
(805) 963-1737

Harbormaster's Office
Oxnard Harbor District
P.O. Box 608
Port Hueneme, CA 93041
(805) 488-3677

Oceanside Harbor District
540 Harbor Drive
North Oceanside, CA 92054
Attn: Harbor Police
(619) 722-1419

Port of San Diego
Chief of Harbor Police
P.O. Box 488
San Diego, CA 92112
(619) 291-3900

Orange County Harbor Department
Dana Point Harbor
Dana Point, CA 92629
(714) 496-2242

Harbor Office
City of Monterey
City Hall
Monterey, CA 93940
(408) 646-3950

Harbor Patrol
1275 Embarcadero
Morro Bay, Ca 93442

Harbormaster's Office
P.O. Box 10
Moss Landing, CA 95039
(408) 633-2461

Three copies must be sent to the Harbormaster's Office, P.O. Box 249, Pier 3, Avila Beach, Ca 93424. Notices will be posted at the following locations:

a. Old Port Fish Co., Avila Beach, CA
b. Rusty's, Avila Beach, CA

COMMERCIAL FISHING ORGANIZATIONS

California Coastal Operators Group
121 Gray Avenue, Suite 3
Santa Barbara, CA 93101
Attn: Carolyn Hubble
(805) 966-7113

International Seafood Market
3920 W. Channel Islands Blvd.
Oxnard, CA 93030
(805) 985-5374

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California Gillnetter's Association
1423 Silvius
San Pedro, CA 90731

Central Coast Seafood
P.O. Box 1076
Morro Bay, CA 93442
Attn: Kathy

Chesapeake Fish Co., Inc.
535 Harbor lane
San Diego, CA 92101

Pacific Coast Federation of Fishermen's Associations, Inc.
P.O. Box 1626
Sausalito, CA 94965
Attn: W.F. Grader, Jr.
(415) 332-5080

Commercial Fisherman's Association of Santa Barbara
c/o Fish Market
119 Harbor Way
Santa Barbara, Ca 93109
(805) 966-4494

Liaison Office
121 Gray Ave, Suite 3
Santa Barbara, CA 93101
Attn: Dr. Craig Fusaro
(805) 963-8819

Fisherman's Cooperative Assoc. of San Pedro
Berth 73
San Pedro, CA 90731
(213 832-5377

Marine Service and Equipment
1169 Market Street
Morro Bay, CA 93442

Fishermen's Quay Corp.
1449-F Spinnaker Drive
Ventura, CA 93001
(805) 644-8286

Union Oil Fuel Dock
Breakwater
Santa Barbara, CA 93109
(805) 962-7186

Monterey Fish Co
P.O. Box 1875
Wharf #2
Monterey, CA 93940

Wayman Fish Co.
1449-D Spinnaker Drive
Ventura, Ca 93001
(805) 644-0425

Monterey Marine State
P.O. Box 1230
Wharf #2
Monterey, CA 93940

Morro Bay Fuel Dock
201 Main Street
Morro Bay, Ca 93442

Morro Bay Marina Inc.
699 Embarcadero
Morro Bay, CA 93442

Moss Landing Commercial Fisherman's Association
P.O. Box 44
Moss Landing, CA 95039

Santa Barbara Shellfish Co.
2300 Stern's Wharf
Santa Barbara, CA 93101

Tom's Fisherman's Supply, Inc.
2210 East Cliff Drive
Santa Cruz, CA 95026

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Woodward Marine
P.O. Box 45A
Moss Landing, CA 95039

Captain Vincent Yellusich
Wharf #2
P.O. Box 2046
Monterey, CA 93940

Six copies must be sent to University of Southern California Marine Advisory Services, 820 S. Seaside Avenue, Terminal Island, CA 90731, (213) 830-6328.

Notices will be posted at the following locations:

a. General Fishermen's Service, Inc., Terminal Island, Ca.
b. Hy-C-Tane Corp., San Pedro, Ca.
c. Jankovich & Sons, San Pedro, Ca.
d. Pioneer Fish Co., San Pedro, Ca.
e. State Fish Co., San Pedro, Ca.

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REGION III: Notification must be sent, as specified in the notification format, to the following parties for operations in Region III:

GOVERNMENT OFFICES AND UNIVERSITIES

In addition to notification, permittee shall coordinate all activities to be conducted under this permit with the following agencies.

California Coastal Commission
631 Howard St., 4th Floor
Energy Division
San Francisco, CA 94105
Attn: Susan Hansch
(415) 543-8555

California Department of Fish & Game
245 West Broadway
Long Beach, CA 90802
Attn: John L. Baxter
Regional Manager
(213) 590-5132

Environmental Protection Agency
215 Fremont Street
Mail Code W51
San Francisco, CA 94105
Attn: Patricia Ekland
(415) 974-8283

National Marine Fisheries Service
300 South Ferry Street
Room 2011
Terminal Island, CA 90731
Attn: Chief of Habitat & Environmental Branch,
Jim Slauson
(213) 548-2517

U.S. Air Force
Western Space & Missile Center
WSMC/SE
Vandenberg Air Force Base, CA 93437
Attn: Offshore Manager
(805) 866-3602

U.S. Fish and Wildlife Service
24000 Avila Road
Laguna Niguel, CA 92677
Attn: OCS Coordinator,
John Wolfe
(714) 831-4270

Commander (oan)
12th Coast Guard District
Coast Guard Island
Alameda, CA 94501-5100
(415) 437-3465

U.S. Navy, CPWP
Naval Air Station, Moffett Field, Building 300
Moffett Field, CA 94035
Attn: Code 33
(415) 966-5606

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MMS Representative
William F. Roberts
Regional Supervisor
1340 West Sixth Street
Los Angeles, CA 90017
(213) 894-2500

For operations in the areas listed below, notification must also be sent to:

* South of Santa Cruz/San Mateo County Line

Area Marine Advisor
1432 Freedom Boulevard
Watsonville, CA 95076
(408) 724-4734

California Department of Fish and Game
2201 Graden Road
Monterey, CA 93940
Attn: Unit Manager
(408) 649-2870

* Santa Cruz/San Mateo County Line to San Francisco/Marin County Line

Area Marine Advisor
P.O. Box 34066
San Francisco, CA 94134
(415) 586-4115

* North of Santa Cruz/San Mateo County Line

California Department of Fish and Game
411 Burgess Drive
Menlo Park, CA 94025
Attn: Unit Manager
(415) 326-0324

* North of San Francisco/Marin County Line

Area Marine Advisor
2604 Ventura Avenue, Room 100-P
Santa Rosa, CA 95401
(707) 527-2621

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HARBORMASTER'S OFFICES

Notify only those Harbormaster's offices within 100 miles of the proposed survey. For geophysical surveys, the envelope shall be prominently labeled "SEISMIC SURVEY NOTICE - POST IMMEDIATELY"

Harbor Office
City of Monterey
City Hall
Monterey, CA 93940
(408) 646-3950

Harbormaster's Office
P.O. Box 10
Moss Landing, CA 95039
(408) 633-2461

Santa Cruz Port District
136 5th Avenue
Santa Cruz CA 95062
(408) 475-6161

Harbor Patrol
1275 Embarcadero
Morro Bay, CA 93442

San Mateo County Harbor District
Pillar Point Harbor, #1, Johnson Pier
Half Moon Bay, CA 94019

Harbormaster's Office
Noyo Harbor
19101 S. Harbor Drive
Ft. Bragg, CA 95437

Three copies must be sent to the Harbormaster's Office, P.O. Box 249, Pier 3, Avila Beach, CA 93424. Notices will be posted at the following locations:

a. Old Port Fish Co., Avila Beach, Ca.

b. Rusty's, Avila Beach, Ca.

COMMERCIAL FISHING ORGANIZATIONS

Anchor Fish Co. & Fuel Dock
Noyo Harbor
780 N. Harbor Drive
Fort Bragg, CA 95437

Crab Boat Owner's Association
2905 Jones Street
San Francisco, CA 94133

Central Coast Seafood
P.O. Box 1076
Morro Bay, CA 93442
Attn: Kathy

Pacific Coast Federation of Fishermen's Associations, Inc.
P.O. Box 1626
Sausalito, CA 94965
Attn. W.F. Grader, Jr.
(415) 332-5080

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Fort Bragg Marine
Noyo Harbor
P.O. Box 702
Fort Bragg, CA 95437

Marine Service and Equipment
1169 Market Street
Morro Bay, CA 93442

Monterey Fish Co
P.O. Box 1875
Wharf #2
Monteray, CA 93940

Monterey Marine State
P.O. Box 1230
Wharf #2
Monterey, CA 93940

Morro Bay Marina, Inc.
699 Embarcadero
Morro Bay, CA 93442

Woodward Marine
P.O. Box 45A
Moss Landing, CA 95039

Meridith Fish Co.
Noyo Harbor
Box 727
Fort Bragg, CA 95437

Salmon Troller's Marketing Association
P.O. Box 137
Fort Bragg, CA 95437

Moss Landing Commercial Fisherman's Association
P.O. Box 44
Moss Landing, CA 95039

Morro Bay Fuel Dock
201 Main Street
Morro Bay, CA 93442

Tom's Fisherman's Supply, Inc.
2210 East Cliff Drive
Santa Cruz, CA 95026

Captain Vincent Yellusich
Wharf #2
P.O. Box 2046
Monterey, CA 93940

Six copies must be sent to Bodega Bay Fishermen's Marketing Association, P.O. Box 321, Bodega Bay, CA 94923. Notices will be posted at the following locations:

a. Harbor Dock, Bodega Bay, Ca.
b. Lucas Wharf, Bodega Bay, Ca.
c. Mason Marina, Bodega Bay, Ca.
d. Meridith Fish Co., Bodega Bay, Ca.
e. The Tides, Bodega Bay, Ca.

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REGION IV: Notification must be sent, as specified in the notification format, to the following parties for operations in Region IV:

GOVERNMENT OFFICES AND UNIVERSITIES

In addition to notification, permittee shall coordinate all activities to be conducted under this permit with the following agencies.

California Coastal Commission
631 Howard St., 4th Floor
Energy Division
San Francisco, CA 94105
Attn: Susan Hansch
(415) 543-8555

California Department of Fish & Game
245 West Broadway
Long Beach, CA 90802
Attn: Regional Manager, John L. Baxter
(213) 590-5132

Environmental Protection Agency
215 Fremont Street
Mail Code W51
San Francisco, CA 94105
Attn: Patricia Ekland
(415) 974-8283

National Marine Fisheries Service
300 South Ferry Street
Room 2011
Terminal Island, CA 90731
Attn: Chief of Habitat & Environmental Branch, Jim Slawson
(213) 548-2517

U.S. Air Force
Western Space & Missile Center
WSMC/SE
Vandenberg Air Force Base, CA 93437
Attn: Offshore Manager
(805) 866-3602

U.S. Fish and Wildlife Service
24000 Avila Road
Laguna Niguel, CA 92677
Attn: OCS Coordinator, John Wolfe
(714) 831-4270

Commander (oan)
12th Coast Guard District
Coast Guard Island
Alameda, CA 94501-5100
(415) 437-3506

U.S. Navy, CPWP
Naval Air Station, Moffett Field, Building 300
Moffett Field, CA 94035
Attn: Code 33
(415) 966-5606

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U.S. Coast Guard
Commander, USCG Group Humboldt Bay
McKinleyville, CA 95521
(707) 839-3241

MMS Representative
William F. Roberts
Regional Supervisor
1340 West Sixth Street
Los Angeles, CA 90017
(213) 894-2500

For operations in the areas listed below, notification must also be sent to:

* South of Mendocino/Humboldt County Line

Area Marine Advisor
2604 Ventura Ave., Room 100-P
Santa Rosa, CA 95401
(707) 527-2621

California Department of Fish and Game
19160 South Harbor Drive
Fort Bragg, CA 95437
Attn: Unit Manager
(707) 964-9078

* Point Arena and Vicinity

AT&T Communications
412 Mt. Kemble Ave., Rm. N420
Morristown, NJ 07960
Attn: Manager, Mr. Jeffrey Ewald
(201) 644-6346

* North of Mendocino/Humboldt County Line

California Deparment of Fish and Game
619 Second Street
Eureka, CA 95501
Attn: Unit Manager
(707) 442-1402

* Mendocino/Humboldt County Line to Humboldt/Del Norte County Line

Area Marine Advisor
Foot of Commercial Street
Eureka, CA 95501
(707) 443-8369

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* North of Humboldt/Del Norte County Line

Area Marine Advisor
Courthouse Annex
981 H Street
Crescent City, CA 95531
(707) 464-4711

HARBORMASTER'S OFFICES

Notify only those Harbormaster's offices within 100 miles of the proposed survey. For geophysical surveys, the envelope shall be prominently labeled "SEISMIC SURVEY NOTICE - POST IMMEDIATELY"

Humboldt Bay Harbor Recreation & Conservation District
Woodley Island Marina & State Hwy. 256
Eureka, CA 95501

Santa Cruz Port District
135 5th Avenue
Santa Cruz CA 95062
(408) 475-6161

San Mateo County Harbor District
Pillar Point Harbor, #1, Johnson Pier
Half Moon Bay, CA 94019

Harbormaster's Office
Noyo Harbor
19101 S. Harbor Drive
Fort Bragg, CA 95437

COMMERCIAL FISHING ORGANIZATIONS

Anchor Fish Co. & Fuel Dock
Noyo Harbor
780 N. Harbor Drive
Fort Bragg, CA 95437

Crab Boat Owner's Association
2905 Jones Street
San Francisco, CA 94133

Caito Fisheries
P.O. Box 402
Eureka, CA 95501

Fort Bragg Marine
Noyo Harbor
P.O. Box 702
Fort Bragg, CA 95437

Davenport Marine Station
Foot of Commercial St.
Eureka, CA 95501

Pacific Coast Federation of Fishermen's Associations, Inc.
P.O. Box 1626
Sausalito, CA 94965
Attn: W.F. Grader, Jr.
(415) 332-5080

Meridith Fish Co.
Noyo Harbor
P.O. Box 727
Fort Bragg, CA 95437

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Eureka Fisheries
P.O. Box 217
Fields Landing, CA 95537

Salmon Troller's Marketing Association
P.O. Box 137
Fort Bragg, CA 95437

Fishermen's Marketing Assn.
320 Second St., Suite 2B
Eureka, CA 95501

Humboldt Marine Services
#1 Yard Road
Fields Landing, CA 95537

Humboldt Seafoods
P.O. Box 84
Eureka, CA 95501

Katy's Smoke House
P.O. Box 621
Trinidad, CA 95570

Pacific Choice Seafoods
#1 Commercial Street Wharf
Eureka, CA 95501

Pacific Fishery Management Council
2000 S.W. 1st Avenue, #420
Portland, Oregon 97201
Attn: Lawrence D. Six
(603) 221-6352

Six copies must be sent to Bodega Bay Fishermen's Marketing Association, P.O. Box 321, Bodega Bay, CA 94923. Notices will be posted at the following locations:

a. Harbor Dock, Bodega Bay, Ca.
b. Lucas Wharf, Bodega Bay, Ca.
c. Mason Marina, Bodega Bay, Ca.
d. Meridith Fish Co., Bodega Bay, Ca.
e. The Tides, Bodega Bay, Ca.

Four copies must be sent to Del Norte Fishermen's Marketing Association, P.O. Box 397, Crescent City, CA 95531, (707) 464-5414. Notices will be posted at the following locations:

a. Bayside Marina, Crescent City, Ca.
b. England Marina, Crescent City, Ca.
c. Otter Distributing and Marine Service, Crescent City, Ca.

Nine copies must be sent to Humboldt Fisherman's Marketing Association, Inc., 216 "H" Street, Eureka, CA 95501. Notices will be posted at the following locations:

a. Eureka Fisheries, Eureka, Ca.
b. Humboldt Fisheries, Eureka, Ca.
c. Nor'Cal Fisheries, Eureka, Ca.
d. Woodley Island Marina, Eureka, Ca.
e. Two bulletin boards at small boat basin

CALL NUMBER 158.41
PUB. PLACE 3037

EXHIBIT D

DATE: _____

PRC NO.: _____

REGION: _____

Field Operation Report

COMPANY: _____

*SURVEY LOCATION: _____

SURVEY TYPE: _____

NUMBER OF LINE MILES SURVEYED (NM): _____

SURVEY DATE(S): _____

EQUIPMENT USED: _____

_____

TYPE(S) DATA AVAILABLE: _____

_____

DATA AVAILABILITY: _____

LOCATION: _____

PERSON TO CONTACT: _____

FOR DATA (Name, Address, Telephone): _____

_____

DESCRIPTION OF ACTIVITIES (Brief): _____

_____

_____

_____

_____

REMARKS (Use Additional Pages if Necessary): _____

_____

_____

_____

_____

_____

_____

* Post-Plot Maps(s) or Modified Pre-Plot Map Attached

CASE NO. RANGE 158.42
HOUSE PAGE 3088

EXHIBIT E

Applicant/Permittee's
Mailing Address:

Date:
Jurisdiction: ____Federal____State____Both
If State: Permit #PRC_____
Region: _____
Area: _____

SEISMIC SURVEY NOTICE

Check One: _____new survey _____time extension of a previous survey

CHEVRON (Applicant/Permittee) will conduct a geological/geophysical survey offshore California in the survey area outlined on the accompanying navigation chart segment. If you foresee potential interference with commercial fishing or other activities, please contact the person(s) listed below:

FEDERAL WATERS (outside 3 nautical miles)
1) Applicant's representative
2) MMS representative

NOTE: Any comments regarding potential conflicts in Federal waters must be received by the applicant's representative and MMS within 10 days of the receipt of this notice.

STATE WATERS (inside 3 nautical miles)
1) Permittee's representative
2) SLC representative

NOTE: Any comments regarding potential conflicts in State waters should be received as soon as possible by the permittee's representative, no more than 15 days after the receipt of this notice.

1. Expected Date of Operation _____
2. Hours of Operation _____
3. Vessel Name _____
4. Vessel Official Number _____
5. Vessel Radio Call Sign _____
6. Vessel Captain's Name _____
7. Vessel will monitor Radio Channel(s) _____ during operations.
8. Vessel Navigation System _____
9. Seismic Equipment to be used _____
10. Approximate length of cable tow _____

Applicant's
Representative: (Call collect)

MMS
Representative:
William F. Roberts
Regional Supervisor
1340 West 6th Street
Los Angeles, CA 90017
(213) 894-2500

State Lands
Representative:
Susan Livenick
Geophysical Coordinator
245 W. Broadway, Suite 425
Long Beach, CA 90802
(213) 590-5201

FEDERAL AND STATE AGENCIES AND AREA MARINE ADVISORS: Please acknowledge receipt of this notice by returning a signed copy of this notice to the MMS if the survey is in Federal waters.

Recipient's Mailing
Address:

_____
(Recipient's Signature)

_____
(Recipient's Title)

CALENDAR PAGE 158.43
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EXHIBIT F

INSTRUCTIONS: CORPORATE APPROVAL

In order for a Non-Exclusive Geophysical Permit to be issued, the Commission requires proof that the Directors of the Corporation seeking the permit have given their approval to the terms of the permit. Attached is a Certificate of Corporation. Please complete the form and attach a copy of the resolution adopted by the Applicant's Board of Directors authorizing the Applicant to obtain the permit.

If the Applicant is not a corporation, please provide some explanation as to the authority of the person seeking this permit.

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CERTIFICATE OF SECRETARY

I certify that:

I am the duly qualified and acting (Assistant) Secretary of

_____
(Name of Corporation)

a _____ corporation authorized to do business
(Name of State)

in California.

The attached is a true copy of a resolution duly adopted by the Board of Directors of the corporation authorizing the corporation to obtain the Non-Exclusive Geophysical Permit, under the terms, conditions and regulations required by the State Lands Commission. The resolution was adopted at regular (or special) meeting of the Board duly held on _____, 19__ and entered in the minutes of such meeting in the minute book of the corporation.

The resolution is in conformity with the articles of incorporation and bylaws of the corporation, has never been modified or repealed, and is now in full force and effect.

Dated: _____, 19___.

(Corporate Seal)

_____
(Signature)