

# STATE OF ALASKA

**FRANK MURKOWSKI, GOVERNOR**

**DEPARTMENT OF NATURAL RESOURCES**

**DIVISION OF OIL AND GAS**

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ANCHORAGE, ALASKA 99501-3510

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August 18, 2004

PGS Onshore Inc.  
Attn. Larry Watt  
341 West Tudor Road # 206  
Anchorage, Alaska 99503

RE: Geophysical Exploration Permit  
Nenana Basin

MLUP/AK 04-05

Dear Mr. Watt:

The Division of Oil and Gas approves the PGS permit application, dated May 3, 2004, to conduct geophysical exploration on State of Alaska lands in the Nenana Exploration License and adjoining state land. This permit, designated MLUP/AK 04-05, authorizes PGS to conduct seismic surveys utilizing vibrators as the energy source.

The state land involved in this activity is subject to an exploration license that can be converted to oil and gas leases that can be developed for conventional oil and gas or shallow natural gas, including coal bed methane. The majority of the land in this survey area is state owned. Rights to conduct this activity on non-state lands will be obtained elsewhere. The clearing on State and privately owned lands must comply with the Alaska Forest Resources and Practices Act.

The project consists of 215 line miles of 2D seismic survey within a roughly 415 square mile area in the Nenana Basin southwest of Fairbanks near the town of Nenana. The northern most portion of the project is in the Minto Flats State Game Refuge and it extends south to Dune Lake. The program is proposed for the winter of 2004-2005. After freeze-up the line and source point locations will be surveyed. Mulchers will clear the lines of standing vegetation to a width of approximately 14 feet. The root system and vegetative mat will not be disturbed. A temporary camp for 35 men will be established near the center of the area. A tractor will pull a drag over the access route from Nenana to the camp and from the camp along the cleared primary seismic lines running northeast by southwest to the far ends of the project to provide improved access for personnel and supplies. Recording cables and geophones will be laid out along one side of the seismic line. Vibrators will travel the lines stopping about every 200 feet and vibrating. After recording, the geophone cables will be removed and all trash, flagging, and

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other debris cleaned up. The process is repeated in a different area until the program is complete. The application and supporting materials further describe the activity.

To meet your requested time frame the **effective date** of this permit is from **December 1, 2004 to April 30, 2005** and may be extended for any number of consecutive periods, each period not to exceed one year consistent with 11 AAC 96.040(c). This permit is subject to the stipulations set forth in Attachment (1), Attachment (2), Attachment (3), and the following stipulations:

1. **You must return a signed copy of Attachment (3) to the Division of Oil and Gas before beginning operations. Your signature acknowledges your obligation to fulfill the requirements of the Data Submittal as well as other terms of the permit. The attachment includes a detailed description of the permittee's data responsibilities, the rules for reimbursement, and an opportunity to request the data remain confidential.**
2. This permit does not authorize activity on Mental Health Trust Lands, School Trust Lands, or Park Lands. An additional authorization from ADF&G under AS 16.20 is required for operations within the Minto Flats State Game Refuge.
3. The PGS bond is applied to secure performance with the terms of this permit, and in addition to other uses, may be used to pay claims made by third parties for damages resulting from the exercise of rights under AS 38.05.125 and AS 38.05.130, or other rights to surface entry that may exist due to State ownership of the subsurface estate. Additional bonding may be required under AS 38.05.130.
4. Approval of this permit does not constitute the specific approval required for surface entry without an agreement with the surface owner. Before entering on privately owned surface in exercise of the state's mineral rights the permittee must comply with AS 38.05.130 and an additional approval is required from the Division of Oil and Gas.
5. The permittee shall defend, indemnify and hold the State of Alaska harmless from and against any and all claims, damages, suits, losses, liabilities and expenses for injury to or death of persons and damage to or loss of property arising out of or in connection with the entry on and use of State lands authorized under this approval by the permittee, its contractors, subcontractors and their employees.
6. The Division of Oil and Gas, Permit and Compliance Unit shall be notified in Anchorage at **(907) 269-8776** and the Division of Mining Land and Water in Fairbanks at **(907) 451-2722** if, during the conduct of operations, state resources are damaged or a land use conflict occurs.
7. The permittee shall immediately notify the Department of Environmental Conservation (DEC) of any unauthorized discharge, leak, or spill of hydrocarbons or toxic or hazardous substances. To notify DEC of incidents outside of normal business hours, call **1 800 478-9300**.
8. The DNR 24-hour **spill, explosion, or fire report number is (907) 451-2678**. The permittee shall immediately notify the Department of Natural Resources by phone of any unauthorized discharges of oil to water, any discharge of hazardous substances other than oil, and any

discharge of oil greater than 55 gallons solely to land and outside an impermeable barrier. If the discharge of oil is greater than 10 gallons but less than 55 gallons it must be reported within 48 hours by phone or fax. If a discharge is less than 10 gallons it may be reported in writing in the completion report. The Northern Region Office of the Division of Mining Land and Water shall be supplied with all follow-up incident reports.

This geophysical exploration permit is issued in accordance with Alaska Statute 38.05, and Alaska Miscellaneous Land Use Regulations 11 AAC 96, and Alaska Statute 46.40. A person affected by this decision may appeal it, in accordance with 11 AAC 02. Any appeal must be received by **September 7, 2004** and may be mailed or delivered to Thomas Irwin, Commissioner, Department of Natural Resources, 550 W. 7th Avenue, Suite 1400, Anchorage, Alaska 99501; faxed to 1-907-269-8918, or sent by electronic mail to [dnr\\_appeals@dnr.state.ak.us](mailto:dnr_appeals@dnr.state.ak.us). This decision takes effect immediately. If no appeal is filed by the appeal deadline, this decision becomes a final administrative order and decision of the department on the 31st day after issuance. An eligible person must first appeal this decision in accordance with 11 AAC 02 before appealing this decision to Superior Court. A copy of 11 AAC 02 may be obtained from this office or any regional information office of the Department of Natural Resources.

The approval of this application signifies only that DNR has no objection to the operations as outlined in the application. It does not constitute certification of any property right or land status claimed by the applicant nor does it relieve the applicant of responsibility to obtain approvals or permits from other persons or governmental agencies as may also be required.

If you have any questions please give me a call in Anchorage at 269-8776, fax 269-3484, or e-mail [Matt\\_Rader@dnr.state.ak.us](mailto:Matt_Rader@dnr.state.ak.us).

Sincerely,

/S/

Matt Rader  
Natural Resource Specialist

(3) Attachments

MLUP/AK 04-05 Nenana Basin

Permit Distribution:

US Mail

MAYOR, CITY OF ANDERSON  
MAYOR, DENALI BOROUGH  
TANANA CHIEFS CONF  
MAYOR, CITY OF NENANA  
PRES., TOGHOTTHELE CORP  
NENANA NATIVE VILLAGE  
PRES., DOYON LIMITED  
PRES., SETH-DE-YA-AH CORP  
MINTO IRA COUNCIL  
MAYOR, CITY OF FAIRBANKS  
MAYOR, FAIRBANKS NORTHSTAR BORO  
PRES, MINTO NENANA ADV COMM  
TANANA VALLEY SPORTSMAN  
ALASKA OUTDOOR COUNCIL  
PATRICIA LYLES

Email

Mac Mclean, OHMP  
Jim Durst, OHMP  
Jim Fish, ADFG  
Gary Schultz, DMLW NR  
Jeanne Proulx, DMLW NR  
Kerry Walsh, DMLW NR  
Kathy Means, DMLW SC  
Holly Hill, DMLW SC  
Judy Bittner, SHPO  
Sefanie Ludwig, SHPO  
Anna Plager, Parks  
John Maisch, NR Forestry  
Paul Maki, Tanana Valley Forest  
Christy Everett, USACOE  
Don Mears, BLM  
Larry Bright, USFWS  
Steve Lewis, USFWS  
Mike Franger, Mental Health Trust  
Kara Moriarty, Fairbanks Chamber of Com  
Arthur Hussey, Northern Center for Enviro  
Gail Mayo, Arctic Audubon Society  
Jim Mery, Doyon  
Larry Watt, PGS  
Bob Mason, ANDEX  
Tom Dodds, ANDEX

## Attachment (1)

### Access and Lines

1. Existing roads, **trails**, and natural clearings must be used wherever possible while satisfying geological location requirements. Trail and line widths shall be kept to a minimum.
2. The clearing of lines and **trails** will be accomplished using mulchers with mulching or masticating heads. A flail type head such as a hydro-ax may also be used. The trunk of spruce trees must be completely pulverized and not pushed to the side of the line or trail unless they are harvested and removed from the area before ceasing seismic operations. If spruce trees or logs are to be harvested and removed, contact the Division of Forestry at (907) 451-2600 for instructions regarding harvest specifications and storage location, from which the Division of Forestry will either sell the logs or make them available for public use. All other tree species may be mulched or cut into 10-15 foot lengths and placed so they cannot roll. Brush and slash will be spread or scattered without damaging other trees, or chipped and scattered in such a way as to preclude being washed into any watercourse.
3. The use of ground contact vehicles for off-road travel is limited to those areas that have adequate ground frost and snow cover to prevent damage to the ground surface and vegetative mat.
4. The use of ground contact vehicles for off-road travel is subject to regional opening and closure issued by DNR Northern Region Office, DMLW. Operations are restricted to the winter seasonal opening. After **April 1**, the use of ground contact vehicles is subject to termination with 72 hours notice unless terminated earlier in response to conditions that result in damage to the ground surface or vegetative mat.
5. Lines Offsets: Every 5 line miles the mulched line will alternate from one side of the receiver cable to the other to interrupt direct line of sight down the line. The receiver cable will remain in a straight line. Within the Minto Flats Refuge the lines will be offset every 3 miles.
6. Where feasible and prudent, seismic lines should be **blocked** at either side when crossing existing access roads or **trails** by means such as felled birch or aspen trees (not spruce), brush piles, or other visual deterrent. Where new seismic lines cross existing access corridors in open areas, the block may need to be placed across the seismic line along a forested portion of the line that is back from the intersection. No seismic lines will be blocked in the Teklanika II Remote Recreational Cabin Sites staking area.
7. Existing snowmachine **trails**, will be marked with crossed survey lath where they intersect receiver cables and the receiver cables will be buried in the snow beneath the traveled surface of the existing trail.
8. Unattended vehicles and equipment will not be parked or left on the traveled surface of off-line **trails** or access routes.

### **Water Bodies**

9. Equipment, other than vessels, must not enter open water areas of a watercourse during winter. All stream crossings shall be over ice of sufficient thickness to support the weight of the vehicles and equipment. Ice or snow bridges constructed at stream crossings must not contain extraneous material (i.e., soil, rock, wood, or vegetation) and must be removed or breached before spring breakup.
10. Stream banks shall not be modified, altered, or disturbed to facilitate stream crossings without prior written approval from the DNR, Office of Habitat Management and Permitting (907 459-7254 or fax 907 456-3091) with notification to DNR, Division of Oil and Gas (907 269-8776 or fax 907 269-3484).
11. The camp will not be located within 500 feet of a **fish bearing water body**. Prior to establishing the camp the permittee will obtain approval for the location from DO&G, in consultation with OHMP and DMLW. No camps will be located within the Minto Flats State Game Refuge.
12. Except at approved crossing locations, riparian vegetation shall not be cleared within 100 feet of **fish bearing water bodies**.
13. To the extent feasible and prudent new access routes and seismic lines must cross **water bodies** perpendicular or near perpendicular to the watercourse to minimize crossing length and potential bank disturbance. Clearings at water body crossings should include a jogged approach along both sides to obstruct line of sight down the access route or seismic line.

### **Fuel and Hazardous Substances**

14. Vehicle maintenance, refueling, campsites, unattended vehicles, and/or storage and stockpiling of material on surface ice of lakes, ponds, rivers, or other **water bodies** are prohibited.
15. Stationary fuel storage facilities must not be placed within the annual floodplain of a watercourse or closer than 100 ft. to a **waterbody**. There will be no stationary fuel storage facilities within the Minto Flats State Game Refuge. There shall be no fueling, servicing or repair of vehicles or equipment, and no vehicles shall be left unattended within the floodplain or below the ordinary high water line of any river, lake or stream or closer than 100 ft. to a **waterbody**.
16. Hazardous materials, petroleum, or petroleum products shall be stored within a lined impermeable basin capable of retaining 110 percent storage capacity of the largest independent storage container.
17. Sorbent material in sufficient quantity to handle operation spills must be on hand at all times for use in the event of an oil or fuel spill.

18. All hazardous material containers and fuel drums must be marked with the contents, and permittee's or contractor's name.

### **Garbage and Debris**

19. **Trails** and campsites must be kept clean. Trash, survey lath, trail markers, and other debris must be picked up and disposed of at a DEC approved landfill or solid waste transfer site. Domestic garbage and putricibles may be incinerated in compliance with the air quality regulations in 18 AAC 50 and the ashes backhauled to a DEC approved disposal facility; stored frozen on-site in animal-proof containers with periodic backhaul to an approved waste disposal facility; or stored non-frozen on-site in animal-proof containers with daily backhaul to an approved waste disposal facility.
20. The campsite and seismic lines will be **inspected** for damage and debris by helicopter after the snow melts. Trash or debris will be recovered and properly disposed of prior to freeze-up the next winter. Surface damage will be recorded and reported and follow-up action, if any, may be required.

### **Wildlife**

21. Intentional harassment, disturbance or displacement of **wildlife** (including concentrations of moose, denning bears, nesting swans, and raptors) is prohibited.
22. Seismic activity is prohibited within ¼-mile of **trumpeter swan** nesting sites from April 1 through August 31. Permittee will request that ADF&G identify trumpeter swan nesting sites prior to operations during this time period. The licensee is advised to contact the U.S. Fish and Wildlife Service for information on locations, and recommended measures to accommodate, bald eagle and peregrine falcon nest sites.
23. Exploration and production activities should not be conducted within one-half mile of known occupied **grizzly and black bear dens**, unless alternative mitigation measures are approved by ADF&G with notification to DO&G. Known den sites should be obtained from ADF&G's Division of Wildlife Conservation, phone 459-7313, prior to commencement of any activities. Occupied dens encountered in the field should be reported to the above, and subsequently avoided by one-half mile until alternative mitigation measures are approved.

### **Land Disposals**

24. Seismic lines will not be cleared within the surveyed lots of the **Dune Lake** Subdivision or the **Teklanika Channel** Lake Subdivision.

25. The permittee shall coordinate with the DMLW regarding the **Teklanika II** Remote Recreational Cabin Sites staking area maps and the existence of any newly staked parcels encountered during survey activities to prevent unnecessary conflicts.

### **History and Archeology**

26. PGS Onshore will sponsor an archeological survey on those portions of the seismic lines that have a high probability of containing archeological sites. High probability areas include: (a) terraces and other high ground along the Teklanika River, (b) well-drained ground along water sources such as lakes, rivers and creeks, and (c) areas of higher elevations such as knolls and rock outcrops not particularly associated with major waterways. Only those portions of the high probability areas that are along the route of the proposed seismic line need to be surveyed. The survey shall occur, and the resulting report submitted to the Office of History and Archaeology, before the seismic testing begins. The survey shall occur during a time of year when the ground is thawed and clear of snow.
27. The Alaska Historic Preservation Act (AS 41.35.200) prohibits the appropriation, excavation, removal, injury, or destruction of any state-owned historic, prehistoric (paleontological) or archaeological site without a permit from the commissioner. Should any sites be discovered during the course of field operations, activities that may damage the site will cease and the Office of History and Archaeology in the Division of Parks and Outdoor Recreation (907-269-8721) shall be notified immediately.

### **Final Maps**

28. **By December 1, 2004** the permittee will submit final program maps. The final program will be reviewed to determine if the activity falls within the scope of the existing approval. The maps and support information, if needed, will show the location of activity in sufficient detail to determine the resources that might be affected and will include the following:
  - a. The **seismic lines**. Lines within the Teklanika II staking area cannot be changed from the final lines already submitted.
  - b. The location of the **camp**.
  - c. The **route** to be used to access the **camp** with reference to trail names and ADL numbers or other identification. (Consult with NR DMLW)
  - d. The proposed locations for line **blocks** based on available information for purposes of implementing mitigation measure 5 that requires physical blocking of seismic lines when they cross existing **trails**. (Consult with NR DMLW)

- e. The proposed locations for crossing **fish bearing water bodies** for the purpose of implementing mitigation measures 11 and 12 that prohibit clearing within 100 feet except at approved crossings. (Consult with NR OHMP)
- f. The proposed locations of line jogs for purposes of implementing mitigation measure 13 that requires visual obstruction of lines that cross **water bodies**.(Consult with OHMP)
- g. The locations of **bear dens** for purposes of implementing mitigation measure 23 requiring avoidance by ½ mile. (Consult with OHMP)

**Attachment (2)**

(Rev.6/22/04)

Reference: Upland Seismic Survey  
Vibroseis Only

Under 11 AAC 96.040 the following Alaska Department of Natural Resources administrative stipulations are attached to and made a part of the terms and conditions of the Geophysical Exploration Permit:

1. The permittee shall notify and obtain approval from the Division of Oil and Gas in advance of any activities that significantly deviate from the approved plan. Any action taken by the permittee or his agent which increases the overall scope of the project or which negates, alters, or minimizes the implied intent of any stipulation contained in this permit will be considered a significant deviation from the approved plan. Notification must include the date and the specific nature of the proposed operation, the reasons why the operation is different and a map showing the location of the operation. Significant deviations from the approved plan are permitted without prior notice to protect human safety or living resources; however, any such emergency deviation must be reported in writing to the Director, Division of Oil and Gas within 48 hours.
2. The permittee shall be responsible for all equipment used in association with the seismic survey. No equipment or materials are to be abandoned in the field. All lost equipment will be reported. If lost equipment is not recovered, the report will include a detailed explanation of the circumstances of the loss and the recovery effort.
3. The permittee shall provide the Alaska Department of Natural Resources with the name of a contact person who shall be familiar with the daily location and operating status of the seismic crew(s). The contact person shall provide this information to the Department of Natural Resources when requested by an authorized representative of the Department.
4. The Department of Natural Resources may require that an authorized representative of the Department be on-site during any operations conducted under this permit.
5. A completion report must be filed within thirty (30) days after termination of permitted activities with the Division of Oil and Gas. This report must contain the following information:
  - a) The dates when work was actually performed and, if 2D, the number of line miles actually surveyed, and if 3D, the number of square miles actually surveyed.
  - b) Paper shot point location maps and **digital files of the shot point locations in SEG P1 format**. The paper shot point map must show data ownership by line. If all lines are under single ownership a statement to that effect is sufficient.
  - c) A U.S.G.S. topographic map showing the actual location of all shot lines, camps, and routes of travel.
  - d) A report covering incidents of surface damage, land use conflicts, and the corrective actions taken.

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- e) A statement of cleanup activities and methods of debris disposal.
- 6. The Director, Division of Oil and Gas has the right at any time to amend or modify any provisions of this permit, or revoke this permit.
- 7. A copy of the permit and stipulations must be posted in a prominent location in the operator's camp.
- 8. The permit authorizes access across and exploration activity upon lands owned by the State of Alaska. No person may engage in mineral exploratory activity on land, the surface of which has been granted or leased by the State of Alaska, or on land for which the state has received the reserved interest of the United States, until good-faith attempts have been made to agree with the surface owner or lessee on settlement for damages which may be caused by such activity. If agreement cannot be reached, or the lease or surface owner cannot be found within a reasonable time, operations may be commenced on the land only with the specific approval of the director, and after making adequate provision for full payment of any damages which the owner may suffer. The approval of this permit does not grant the specific approval required to commence operations without a surface use agreement with the surface interest holder.
- 9. The seismic exploration activities granted under this permit must not diminish the use and enjoyment of lands encompassed within a native allotment. Before entering a pending or approved native allotment, the permittee shall contact the Bureau of Indian Affairs and Bureau of Land Management and comply with applicable federal law.
- 10. All wastewater must be disposed of in a manner acceptable to the Alaska Department of Environmental Conservation and drinking water must meet Alaska drinking water standards. For additional information contact the Alaska Department of Environmental Conservation.
- 11. Permittee shall abide by the provisions of Alaska's wildlife feeding regulation, 5 AAC 92.230. This regulation provides that it is unlawful to deliberately feed moose, bears, wolves, foxes or wolverines or to negligently leave human food or garbage in such a manner that it attracts such animals.
- 12. In areas of subsistence harvest, the permittee will coordinate survey activity with local subsistence users to prevent unnecessary conflicts. Permittee shall make a good-faith attempt to coordinate survey activities with the owners of trap-lines if known.

**Attachment (3)**

(REV 10-15-02)

**Geophysical Data Submission Requirements**

Under 11 AAC 96.210(1), the director has the right to inspect and require submission of seismic exploration data obtained under this permit for five years after the permittee provides notification that the initial processing has been completed.

As a condition of the issuance of this Geophysical Exploration Permit, the permittee acknowledges the requirements of 11 AAC 96.210(1) and agrees to notify the director and submit seismic exploration data at the request of the director as follows:

1. The permittee will submit written notice to the director of all seismic exploration data obtained under the permit within 30 days after termination of seismic exploration, and of the availability of processed seismic exploration data within 30 days after completion of initial processing of the data.

2. The permittee will submit processed data acquired under this permit to the division when it becomes available.

3. At a minimum, the permittee shall submit the following processed data; however, the director may request additional data submissions, [as defined in 11AAC 96.250 (6)] as the director determines necessary within the five-year period. The director may also require the resubmission of unreadable or incomplete data.

**4. Digital submission for 3-D seismic data:**

- A. The final stack and final migrated stack (line, cross-line, and bin center XY's must be in the trace headers).
- B. Common depth point gathers or partial offset/angle stacks processed for amplitude versus offset analysis (relative amplitude data, pre-stack migration, and normal move-out corrections).
- C. The bin center locations.
- D. Final stacking velocities.
- E. A report describing the acquisition, processing and polarity of the data in at least as much detail as a standard side label. Hardcopy is acceptable if digital is not available.

**5. Hardcopy submission for 3-D seismic data:**

- A. If not previously submitted with the required operations completion report, a map of the final survey with projection, spheroid, and scale clearly defined.

**6. Digital submission for 2-D seismic data:**

- A. The final stack and final migrated stack (shot point number, CDP number, and CDP XY location must be in the trace headers).
- B. Final stacking velocities.
- C. Shot and receiver locations.
- D. A report describing the acquisition, processing and polarity of the data in at least as much detail as a standard side label. Hardcopy is acceptable if digital is not available.

**7. Hardcopy submission for 2-D seismic data:**

- A. Prefold, blackline paper sections of the final stack and final migrated stack displayed at 2.5 inches per second.
- B. If not previously submitted with the required operations completion report, a post-plot map of the final survey with projection, spheroid, and scale clearly defined.

**8. Acceptable data formats are:**

- A. Seismic trace data – SEG-Y format, (original data format, i.e. 32 bit floating point).
- B. Seismic location data – SEG-P1 format.
- C. Velocity data - ASCII text files, or SEG-Y format.
- D. MS-DOS or UNIX.
- E. ASCII, TAR or ZIP.

**9. Data Projection, Datums, and Documentation:**

- A. All Data must be submitted in the original projection and datum that it was captured in to protect the integrity of the source.
- B. All geographic data submitted must include metadata defining the projection and datum (NAD 27 or NAD 83), and should identify the original coordinate system, datum, and units. The metadata should follow the Federal Geographic Data Committee (FGDC) Content Standards for Digital Geospatial Metadata.

10. Acceptable transmittal media for digital data are 8mm data cartridge, 3590 data cartridge, DLT tape, Digital Versatile Disc (DVD), Compact Disc (CD-ROM, CD-R, CD+R, CD-RW, and CD+RW), FTP transmission, or Firewire/ USB PC-hard drives. A 3.5-inch floppy diskette can be used for files smaller than 1.4 Megabytes.

11. Each document, tape, CD-ROM or other transmittal medium must be labeled with the correct MLUP number. Each document and container used to transfer the information should be marked “Confidential”. However, under Alaska Statute AS 38.05.035(a)(9)(C) and 11 AAC 96.220 the department will treat the information as confidential only upon written request by the person supplying the information, and only within the provisions of the law.

12. The state will reimburse the permittee for reasonable reproduction and shipping costs directly incurred as a result of complying with the requirement to submit seismic exploration data. (11 AAC 96.230) Reimbursable costs of reproduction include only the cost of the media on which the data are recorded; for instance, tapes, discs and data cartridges. **The state will not reimburse for indirect costs of preparing the data or the medium, such as time, personnel, equipment or contract services used to comply with the data request.** Invoice(s) must clearly specify the reimbursable costs associated with each MLUP number and survey.

The division will initiate reimbursement procedures within 30 days after it has received an acceptable copy of all the requested seismic exploration data if it has received an invoice. Data, invoices, and a **signed copy of this Geophysical Data Submission Requirement** should be submitted to attention of:

Christina Beaty  
The Division of Oil & Gas  
550 West 7<sup>th</sup> Avenue, Suite 800  
Anchorage, AK 99501

Hold data confidential

Release data to public

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

Signature of Permittee  
(Sign and return before beginning operations)