

DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION RECEIVED

NORTHEASTERN LAND OFFICE

JAN 23 2004

D.N.R.C.



STATE OF MONTANA RECEIVED

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FEB 11 2004

HAVRE UNIT OFFICE
PO BOX 868
210 SIXTH AVENUE
HAVRE, MONTANA 59501-0868

January 20, 2004

LEGISLATIVE ENVIRONMENTAL
POLICY OFFICE

MEMORANDUM

TO: Clive Rooney, Area Manager, Northeastern Land Office
Wanda Walks, Mineral Leasing Section, Helena Office

FR: Dan Dobler, Havre Unit Manager, NELO *Dan Dobler*

RE: Proposed Seismic Permit No. 1422
Polaris Exploration Ltd. / Alta Canada
Township 31.0 North, Range 20.0 East
Section 16: All (State does not own surface)
Township 31.0 North, Range 20.0 East
Section 27: N $\frac{1}{2}$ N $\frac{1}{2}$
Township 31.0 North, Range 20.0 East
Section 33: SE $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$
Township 32.0 North, Range 19.0 East
Section 36: All
Township 32.0 North, Range 20.0 East
Section 15: SW $\frac{1}{4}$
Blaine County, Montana

Township 32.0 North, Range 20.0 East
Section 16: All (State does not own surface)
Township 32.0 North, Range 20.0 East
Section 22: NW $\frac{1}{4}$
Township 32.0 North, Range 21.0 East
Section 16: All
Township 33.0 North, Range 19.0 East
Section 14: NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$

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DNRC NELO

Polaris Exploration Ltd. is proposing to conduct a 2-D seismic project on the above referenced tracts of State land. This type of project will create low impact energy sources by using vibroseis equipment. This equipment is used to locate shallow natural gas producing formations.

The proposed project will involve approximately 5 $\frac{1}{4}$ miles of State owned surface and subsurface lands. The surface impacts will consist mainly from limited vehicular travel across the surface and soil compaction from the tires and vibrating platform of the vibroseis equipment. The proponent will be required to contact the State's surface lessees to inform them of the proposed seismic project. The proponent will be required to settle all surface damages within a reasonable time period following the completion of the proposed seismic project. This project will have minor environmental impacts to the grazing and agricultural acreage associated with the above referenced tracts of land. If the proponent conducts this project during frozen or dry surface conditions and complies with the Departments terms and conditions for seismic activity on State land, there will be no negative impacts to these natural resources.

I have attached the Environmental Assessment Checklist for your review. Please review the EA Checklist, sign and date it, and return an executed copy to the Havre Unit Office. Please forward a copy of the EA Checklist to Connie Daruk, so that she can submit it to the EQC. I am recommending that the Department issue Polaris Exploration Ltd. a seismic permit to conduct a 2-D seismic project across the above referenced tracts of land. Listed below are the stipulations for Seismic Permit No. 1422:

STIPULATIONS

1. Permittee shall contact the Havre Unit Office, 24 hours prior to commencing any surface activities at: PO Box 868, Havre, MT 59501, phone (406) 265-5236.

2. The permittee shall be responsible for controlling any noxious weeds introduced by permittee's activity on State owned surface and subsurface lands and shall prevent or eradicate the spread of those noxious weeds onto land adjoining the leased premises.
3. These tracts of State land may contain significant archaeological, historical, and/or paleontological resources. If any of these resources are located in the direct route of the proposed seismic line, the permittee shall cease all activity and contact the Havre Unit Office and the Department Archaeologist in Helena immediately.
4. It is the responsibility of the permittee to make sure that the seismic company that has been contracted to do the seismic work under this permit has a valid permit with the county and has registered their bond with the Secretary of State's Office.
5. In order to prevent the introduction of noxious weeds on State lands, vehicles and ATV's used on this project must be power washed prior to use.
6. Permittee shall contact State surface lessees, 48 hours prior to any seismic activity on the State owned surface and/or subsurface lands.
7. Seismic activity will occur on dry or frozen ground only. **No activity will be allowed during muddy or thawing conditions.**
8. No vehicle oil changes or petroleum disposal shall occur on these lands.
9. There will be no off-road traffic other than necessary to accomplish the seismographic goals.
10. **Vehicles will not be allowed to traverse steep slopes greater than 25%, or areas with very thin soils that may be rutted and left open to erosion. All receiver lines will be placed on steep slopes by hand crews.**
11. All gates will be closed, and all fences that are taken down will be repaired as soon as possible. The Havre Unit Office recommends that the seismic company use gates as much as possible to limit the impact to the surface on all lands.
12. All flagging tape will be removed from the roads and fences leading into the site, along designated routes, and fence lines indicating where gates are located, once the project is completed.
13. There is woody species present on most of these tracts of State land. Those species include snowberry, woods rose, greasewood, buffaloberry, silver sagebrush, and Russian olive. Trucks will avoid these species by going around them. **If woody draws are present, these areas must be avoided. The permittee will not be allowed to cross the Snake Creek ditch or Lonetree Coulee and disturb the woody vegetation that exists there.** If the permittee wants to cross a woody draw they must receive written permission from the Havre Unit Office on the agreed upon crossing location.
14. The permittee shall settle all surface damages within a reasonable time period following the completion of the proposed seismic project.
15. All seismic activity is prohibited within 150 feet of the center pivots located in Sec. 14, T33N, R19E.

CHECKLIST ENVIRONMENTAL ASSESSMENT

Project Name: Seismic Permit No. 1422	Proposed Implementation Date: February 2, 2004
Proponent: Polaris Exploration Ltd., 4550 35 th St. SE, Calgary, Alberta 72B-35 c/o Stephen Boyle, P.O. Box 801, Chinook, MT 59523 - Phone Number (406) 357-2221, Room 14 (Bear Paw Motel)	
Type and Purpose of Action: Polaris Exploration Ltd. is proposing to conduct a 2-D seismic project for the exploration of natural gas formations across several tracts of State land.	
Location: <i>(See attached page for legal descriptions)</i>	County: Blaine County, Montana

I. PROJECT DEVELOPMENT

<p>1. PUBLIC INVOLVEMENT, AGENCIES, GROUPS OR INDIVIDUALS CONTACTED: Provide a brief chronology of the scoping and ongoing involvement for this project.</p>	<p>The Department of Natural Resources and Conservation (DNRC) has been petitioned by Polaris Exploration Ltd. to conduct 2-D seismic activities on State land. The Montana DNRC sent out scoping letters to the following State surface lessees; John D. Tilleman, C & S Ranch - c/o Richard N. Shockley, Conrad Farms, Inc., Joe Brummer, Patrick R. & Kathi L. Molyneaux, and Briese Brothers. The scoping letters identify the proposed seismic project for each of the above referenced State surface lessees and their associated surface leases on State land.</p>
<p>2. OTHER GOVERNMENTAL AGENCIES WITH JURISDICTION, LIST OF PERMITS NEEDED:</p>	<p>The Montana DNRC's, Havre Unit Office, Minerals and Management Bureau, and the Montana Board of Oil & Gas are the only governmental agencies with jurisdiction for this type of project on lands in which the State of Montana owns the surface, mineral rights, or both surface and mineral rights. Polaris Exploration Ltd. will need to obtain a seismic permit from the Montana DNRC, prior to conducting any seismic activity on State lands. The seismic company that has been contracted to do the seismic work under this permit must have a valid permit with the county and have registered their bond with the Secretary of State's Office.</p>
<p>3. ALTERNATIVES CONSIDERED:</p>	<p>Action Alternative: Grant Polaris Exploration Ltd. permission to conduct 2-D seismic activities for the exploration of natural gas formations on State land.</p> <p>No Action Alternative: Deny Polaris Exploration Ltd. a seismic permit to conduct 2-D seismic activities for the exploration of natural gas formations on State land.</p>

II. IMPACTS ON THE PHYSICAL ENVIRONMENT	
RESOURCE	POTENTIAL IMPACTS
<p>4. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE: Are fragile, compactible or unstable soils present? Are there unusual geologic features? Are there special reclamation considerations?</p>	<p>Action Alternative: The soils will receive a minimal disturbance with this type of activity. The proposed seismic project will only take place while the ground is frozen or dry. No unusual geological features are present on these tracts of State land. The soils are suitable for this type of activity, but may experience some compaction due to the heavy equipment that is used. There are no special reclamation considerations for this project.</p> <p>No Action Alternative: The soils that are located on these tracts of State land will not be disturbed. The seismic company will not be issued a seismic permit to conduct a 2-D seismic project across these tracts of State land.</p>
<p>5. WATER QUALITY, QUANTITY AND DISTRIBUTION: Are important surface or groundwater resources present? Is there potential for violation of ambient water quality standards, drinking water maximum contaminant levels, or degradation of water quality?</p>	<p>Action Alternative: The location of the seismic project does contain important surface and/or groundwater resources during different times of the year. The seismic company is prohibited from any seismic activity within 300 feet of any springs, water wells, streams, lakes or water storage reservoir facilities to maintain the integrity of these water resources. The seismic company is also prohibited from any seismic activity within 150 feet of any center pivot used for irrigation purposes. This type of activity does not have the potential to contaminate drinking water or degrade the present water quality found in this area.</p> <p>No Action Alternative: The water quality, quantity, and distribution will not be impacted. The seismic company will not be allowed to conduct a 2-D seismic project across these tracts of State land. Water quality standards will not be violated. Drinking water will not be degraded in this area.</p>

II. IMPACTS ON THE PHYSICAL ENVIRONMENT

6. AIR QUALITY: Will pollutants or particulate be produced? Is the project influenced by air quality regulations or zones (Class I airshed)?

Action Alternative: The project is expected to have a minimal impact on the air quality in the surrounding area of the proposed activity. An increase in traffic across these areas by the seismic company will produce some particulates, during the initial stages of the project. However, after the seismic company completes the project, traffic will return to normal in these areas. The seismic company will be required to use existing roads and trails for moving equipment from place to place.

No Action Alternative: The present air quality will not be impacted on these tracts of State land. No pollutants or particulates will be produced in this area. The seismic company will not be issued a seismic permit to conduct 2-D seismic activities on these tracts of State land.

II. IMPACTS ON THE PHYSICAL ENVIRONMENT

7. VEGETATION COVER, QUANTITY AND QUALITY: Will vegetative communities be permanently altered? Are any rare plants or cover types present?

The vegetative communities found on the native rangeland include the following plants: western wheatgrass (*Agropyron smithii*), needle-and-thread (*Stipa comata*), blue grama (*Bouteloua gracilis*), prairie junegrass (*Koeleria pyramidata*), green needlegrass (*Stipa viridula*), sedges (*Carex spp.*), sandberg bluegrass (*Poa secunda*), cudweed sagewort (*Artemisia ludoviciana*), fringed sagewort (*Artemisia frigida*), dense clubmoss (*Selaginella densa*), silver sagebrush (*Artemisia cana*), buffaloberry (*Sheperdia argentea*), greasewood (*Sarcobatus vermiculatus*), creeping juniper (*Juniperus horizontalis*), Rocky Mountain Juniper (*Juniperus scopulorum*), and woods rose (*Rosa woodsii*).

The agricultural commodities found on the agricultural land may include the following crops: newly seeded winter wheat, winter wheat stubble, spring wheat stubble, barley stubble, and annual weeds.

Action Alternative: The proposed project is expected to have a minimal impact on the vegetative cover, quantity, and quality of these tracts of State land. The vegetative communities in the immediate area of disturbance will receive minimal impact. Rare plants or cover types will not receive long-term impacts with this type of project. There will be no vehicular activity, other than specified on the plat map. The seismic company will not be allowed to traverse up, down, or across the steep slopes that are found within the proposed project area. The seismic company will not be allowed to cross Snake Creek ditch or other coulee areas where woody vegetation exists. The agricultural commodities will be minimally impacted with this type of activity. Newly seeded winter wheat will be the only commodity that will experience some type of disturbance with this type of activity. The disturbance will be very minimal since the seismic activity will only be allowed to take place during frozen or dry surface conditions.

No Action Alternative: The vegetative communities found throughout the proposed project area will not be altered. Rare plant and cover types will not be impacted. The seismic company will not be issued a seismic permit to conduct a 2-D seismic project on these tracts of State land.

II. IMPACTS ON THE PHYSICAL ENVIRONMENT

<p>8. TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS: Is there substantial use of the area by important wildlife, birds or fish?</p>	<p>Action Alternative: The area of the proposed activity is used by many different types of wildlife and bird species. Wildlife may be temporarily dispersed in this area during the seismic project. Wildlife and bird species found in this area will not be permanently relocated, as a result of this activity. Once the project is completed, wildlife and bird species will return to normal activities in this area. Wildlife habitat will not be significantly impacted by seismic activity.</p> <p>No Action Alternative: The terrestrial and avian life and their habitats will not be impacted. The seismic company will not be issued a seismic permit to conduct a 2-D seismic project on these tracts of State land.</p>
<p>9. UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES: Are any federally listed threatened or endangered species or identified habitat present? Any wetlands? Sensitive Species or Species of special concern?</p>	<p>Action Alternative: The timing of this project will take place while the ground is frozen or dry. This should minimize the overall disturbance to existing habitat types and ecosystem. Federally listed, threatened, and endangered species will be able to migrate through this area with minimal disturbance. There are sensitive species and species of special concern known to use these areas as habitat. These species may be temporarily displaced with this type of activity on these tracts of State land. However, these species will not be permanently relocated with this type of activity. The seismic company will complete their work in one to two days and they will leave the area completely. All wildlife species found in this area will return to normal everyday activities, once the seismic company finishes the project and leaves this area. There are no wetlands in the immediate area of the proposed disturbances on these tracts of State land.</p> <p>No Action Alternative: The unique, endangered, fragile or limited environmental resources found in the immediate area of the proposed project will not be impacted. The seismic company will not be issued a seismic permit to conduct a 2-D seismic project on these tracts of State land.</p>
<p>10. HISTORICAL AND ARCHAEOLOGICAL SITES: Are any historical, archaeological or paleontological resources present?</p> <p>(Continued on Next Page)</p>	<p>Action Alternative: The Montana DNRC has surveyed the proposed project area for existing cultural resources. The Montana DNRC Archaeologist, Patrick Rennie, was contacted for his input on cultural resources in this area.</p> <p>(Continued on Next Page)</p>

II. IMPACTS ON THE PHYSICAL ENVIRONMENT

<p>10. HISTORICAL AND ARCHAEOLOGICAL SITES: Are any historical, archaeological or paleontological resources present?</p> <p style="text-align: center;"><u>(Continued from Previous Page)</u></p>	<p style="text-align: center;"><u>(Continued from Previous Page)</u></p> <p>He has seen no evidence that 2-D seismic activities, on frozen or dry ground, have any ability to impact any kind of cultural resource.</p> <p><u>No Action Alternative:</u> Historical and archaeological resources present on these tracts of State land will remain intact. Unknown historical and archaeological resources present on these tracts of State land will not be disturbed. The seismic company will not be issued a seismic permit to conduct this seismic project. There will be no alterations to the existing or unknown historical or archaeological resources.</p>
<p>11. AESTHETICS: Is the project on a prominent topographic feature? Will it be visible from populated or scenic areas? Will there be excessive noise or light?</p>	<p><u>Action Alternative:</u> The proposed project is located in a semi-rural area. Some areas contained within this project will be visible to the public until native grasses begin new growth or new crops are seeded. The project will create some excessive noise during the initial stages of the project. However, the noise levels will return to normal once the project is completed and the seismic company pulls out of the area.</p> <p><u>No Action Alternative:</u> The project will not impact the aesthetic character of the land. The seismic company will not be issued a seismic permit to conduct 2-D seismic activities on these tracts of State land.</p>
<p>12. DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR OR ENERGY: Will the project use resources that are limited in the area? Are there other activities nearby that will affect the project?</p>	<p><u>Action Alternative:</u> The grazing and agricultural land will receive minimal, short-term impacts with this type of proposed activity. The project will take place while the ground is frozen or dry, in order to limit the impact to the native rangeland resources and newly planted crops. The project will not use resources that are limited in the area.</p> <p><u>No Action Alternative:</u> There will be no demands on the environmental resources of land, water, air or energy, The Montana DNRC will not issue Polaris Exploration a seismic permit to conduct seismic activities on these tracts of State land.</p>
<p>13. OTHER ENVIRONMENTAL DOCUMENTS PERTINENT TO THE AREA: Are there other studies, plans or projects on this tract?</p> <p style="text-align: center;"><u>(Continued on Next Page)</u></p>	<p><u>Action Alternative:</u> The DNRC will continue to monitor mineral and surface management activities on State land to assess the impacts of these projects on the surrounding ecosystem. The Montana DNRC will continue to administer the licensed activities that are currently taking place on State land.</p> <p style="text-align: center;"><u>(Continued on Next Page)</u></p>

II. IMPACTS ON THE PHYSICAL ENVIRONMENT

13. OTHER ENVIRONMENTAL DOCUMENTS PERTINENT TO THE AREA: Are there other studies, plans or projects on this tract?

(Continued from Previous Page)

(Continued from Previous Page)

No Action Alternative: No further studies, plans, or projects will be needed. The Montana DNRC will not issue the seismic company a seismic permit to conduct 2-D seismic activities across these tracts of State land. The Montana DNRC Trust Land Management Division will continue to perform field appraisals on tracts of State owned land every ten years.

III. IMPACTS ON THE HUMAN POPULATION

RESOURCE

POTENTIAL IMPACTS AND MITIGATION MEASURES

14. HUMAN HEALTH AND SAFETY: Will this project add to health and safety risks in the area?

Action Alternative: The seismic company, subcontractors, and/or their employees understand the risks involved in this type of project. They assume the risks involved in seismic project as an occupational hazard. The project will have no long-term impacts to the human health and safety of the people found in this area.

No Action Alternative: The human health and safety risks found in this area will continue to remain minimal. There will be no human health or safety risks to the seismic company, subcontractors, and/or its employees.

15. INDUSTRIAL, COMMERCIAL AND AGRICULTURAL ACTIVITIES AND PRODUCTION: Will the project add to or alter these activities?

Action Alternative: The Montana DNRC has set up stipulations for the seismic company to ensure that the industrial, commercial, and agricultural activities will not be altered with this type of project. The native rangeland and agricultural land will be impacted with this type of activity. The proposed project will matt the grass down, but will not impact the long-term, future forage productivity on these tracts of grazing land. The project will have a minimal impact to the agricultural land, since the project can only be completed during frozen or dry surface conditions. Damages will be settled with the State's surface lessees within a reasonable time period following the completion of the proposed seismic project.

No Action Alternative: The industrial, commercial, and agricultural activities will not be altered. The seismic company will not be issued a seismic permit. Native rangeland forage production will remain the same. Crops will not be impacted on the State land.

<p>16. QUANTITY AND DISTRIBUTION OF EMPLOYMENT: Will the project create, move or eliminate jobs? If so, estimated number.</p>	<p>Action Alternative: The project will not alter the quantity and distribution of employment in this area. The project will create short-term jobs for the seismic company's employees, but will have no impact on the local quantity and distribution of employment.</p> <p>No Action Alternative: The quantity and distribution of employment will not be impacted in the surrounding area. The seismic company's employees travel all around the United States doing seismic projects and they will simply move on to the next job.</p>
<p>17. LOCAL AND STATE TAX BASE AND TAX REVENUES: Will the project create or eliminate tax revenue?</p>	<p>Action Alternative: The project will not create or eliminate tax revenue in Blaine County. The local and state tax bases will remain the same.</p> <p>No Action Alternative: The local and state tax bases will not be impacted. Tax revenue in Blaine County will remain the same.</p>
<p>18. DEMAND FOR GOVERNMENT SERVICES: Will substantial traffic be added to existing roads? Will other services (fire protection, police, schools, etc) be needed?</p>	<p>Action Alternative: The project will increase traffic on the existing roads during the initial stages of the project. Traffic will return to normal, once the seismic company has completed the project. The project will not require other services such as police, fire departments, or schools. No additional government services will be needed on these tracts of State land.</p> <p>No Action Alternative: There will be no additional demands for government services. The Montana DNRC will not issue the Polaris Exploration a seismic permit to conduct 2-D seismic activities on these tracts of State land.</p>
<p>19. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS: Are there State, County, City, USFS, BLM, Tribal, etc. zoning or management plans in effect?</p>	<p>Action Alternative: The goal of the Montana DNRC/TLMD is to manage the State of Montana's trust land resources to produce revenue for the trust beneficiaries, while considering environmental factors and protecting the future income-generating capacity of the land. Exploring for natural gas and oil formations on State land has the potential to increase the income-generating capacity of the land. If natural gas or oil formations are found on the State land, additional revenue may be generated for the trust beneficiaries, through royalties from the sale of natural gas and/or oil. Natural gas and/or oil development proposals will be reviewed through the same MEPA process as seismic projects.</p> <p>No Action Alternative: There will be no impacts to the locally adopted environmental plans or goals that the Montana DNRC/TLMD has for these tracts of State land.</p>

<p>20. ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES: Are wilderness or recreational areas nearby or accessed through this tract? Is there recreational potential within the tract?</p>	<p>Action Alternative: Some of the locations in the proposed project do have recreational potential. Some of these tracts of State land do have legal access for recreational activities. Upland game bird hunting, big game hunting, bird watching, and hiking are just some of the types of recreational activities that take place in this area. The proposed project will not alter these activities. Recreational activities will return to normal once the seismic company is done with this project.</p> <p>No Action Alternative: The access to and quality of the wilderness and recreational activities found in this area will continue to remain the same. These tracts of State land that have legal access, will continue to be used for recreational purposes by people who possess a State Lands Recreational Use License.</p>
<p>21. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING: Will the project add to the population and require additional housing?</p>	<p>Action Alternative: The density and distribution of population and housing will not be impacted with the approval of the proposed project. The proposed activity will increase traffic on the designated roads into the areas of the project. The increase in traffic will only occur during the initial stages of the seismic project. The location of the proposed project is in a semi-rural area. This area is primarily used for livestock grazing purposes and the production of dryland agricultural commodities.</p> <p>No Action Alternative: The density and distribution of population and housing will not change in this area. The proposed project will not have any impact on the density and distribution of population and housing in this area, regardless of the decision from the Montana DNRC.</p>
<p>22. SOCIAL STRUCTURES AND MORES: Is some disruption of native or traditional lifestyles or communities possible?</p>	<p>Action Alternative: This project will have a minimal impact on the traditional lifestyles found in this area. The social structures and mores will not be impacted by the proposed seismic activity, especially since these communities are located in rural areas.</p> <p>No Action Alternative: The social structures and mores will continue to stay the same. The native and traditional lifestyles found in this area will not be disrupted.</p>

<p>23. CULTURAL UNIQUENESS AND DIVERSITY: Will the action cause a shift in some unique quality of the area?</p>	<p>Action Alternative: The proposed activity will not cause a shift in any unique quality of the surrounding area. The seismic project will not change the cultural uniqueness and/or the diversity on these tracts of State land.</p> <p>No Action Alternative: The cultural uniqueness and diversity of the land will not be disturbed. The seismic company will not be issued a seismic permit to conduct 2-D seismic activities across these tracts of State land.</p>
<p>24. OTHER APPROPRIATE SOCIAL AND ECONOMIC CIRCUMSTANCES:</p>	<p>Action Alternative: Polaris Exploration Ltd. is proposing to conduct a 2-D seismic project to explore for natural gas and oil within the different soil formations below these tracts of State land. They may find natural gas formations and propose to drill an exploratory well to tap into this resource. This activity would present another proposed project to the Montana DNRC. The Montana DNRC will deal with that issue when and if it comes along.</p> <p>No Action Alternative: The Montana DNRC will not issue a seismic permit for this project. There are no other appropriate social and/or economic circumstances to discuss in this Environmental Assessment Checklist.</p>

EA Checklist Prepared By: Dan Dobler
Name

 Havre Unit Manager
Title

 Dan Dobler
Signature

 January 20, 2004
Date

IV. FINDING	
25. ALTERNATIVE SELECTED:	NSI Action
26. SIGNIFICANCE OF POTENTIAL IMPACTS:	N.S. I Action
27. Need for Further Environmental Analysis: <input type="checkbox"/> EIS <input type="checkbox"/> More Detailed EA <input checked="" type="checkbox"/> No Further Analysis	

EA Checklist Approved By: Clive Rooney Area Manager, Northeastern Land Office
Name Title

 1/21/04
Signature Date

Seismic Permit No. 1422

(Legal Descriptions)

All, Section 16, Township 31.0 North, Range 20.0 East (No Surface)

N $\frac{1}{2}$ N $\frac{1}{2}$, Section 27, Township 31.0 North, Range 20.0 East

SE $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, Section 33, Township 31.0 North, Range 20.0 East

All, Section 36, Township 32.0 North, Range 19.0 East

SW $\frac{1}{4}$, Section 15, Township 32.0 North, Range 20.0 East

All, Section 16, Township 32.0 North, Range 20.0 East (No Surface)

NW $\frac{1}{4}$, Section 22, Township 32.0 North, Range 20.0 East

All, Section 16, Township 32.0 North, Range 21.0 East

NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, Section 14, Township 33.0 North, Range 19.0 East