

DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION

NORTHEASTERN LAND OFFICE

DNRC - Trust Land Management Division



STATE OF MONTANA

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HAVRE, MONTANA 59501-0868

November 19, 2004

MEMORANDUM

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

**FR:** Dan Dobler, Havre Unit Manager, Northeastern Land Office *Dan Dobler*

**RE:** Seismic Permit No. 1448  
Encore Acquisition / Polaris Explorer USA, Inc.  
Township 34.0 North, Range 12.0 East  
Section 36: W $\frac{1}{2}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$   
Hill County, Montana

RECEIVED

NOV 25 2004

Polaris Explorer USA, Inc. is proposing to conduct a 3-D seismic project across the above referenced tract of state land. Polaris Explorer USA, Inc. has been hired on behalf of Encore Operating, L.P. to complete this seismic project. 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 cross approximately 1 $\frac{1}{2}$  miles of state owned grazing and agricultural land. 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 lessee(s), Donald R. & Kristine Jo Kline, 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 impact on the grazing and agricultural acreage associated with the above referenced tract of state land. There will be minimal negative impacts to the natural resources found on this tract of state 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.

I have attached an 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 Environmental Quality Council. I am recommending that the Department issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across the above referenced tract of state land. Listed below are the stipulations for Seismic Permit No. 1448:

STIPULATIONS

1. Permittee shall contact the Havre Unit Office, 48 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 lands and shall prevent or eradicate the spread of those noxious weeds onto land adjoining the leased premises.

3. This tract 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 the state's surface lessee(s), 48 hours prior to any surface activity on this tract of state land.
7. Seismic activity will occur on dry or frozen ground only. No activity will be allowed during muddy conditions.
8. No vehicle oil changes or petroleum disposal shall occur on this tract of state land.
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 existing 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 may be woody species present on 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. 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.

Enclosures: EA Checklist/Topo Map

# CHECKLIST ENVIRONMENTAL ASSESSMENT

Project Name: Seismic Permit No. 1448	Proposed Implementation Date: November 24, 2004
Proponent: Encore Acquisition/Polaris Explorer USA, Inc., C/o Town House Inns, 601 W First St., Havre, MT 59501	
Type and Purpose of Action: Polaris Explorer USA, Inc. is proposing to conduct a 3-D seismic project across state land for the exploration of natural gas formations. The project is expected to cross approximately 1½ miles over a tract of state grazing and agricultural land. Polaris Explorer USA, Inc. is conducting this project on behalf of Encore Operating, L.P.	
Location: <u>Township 34.0 North, Range 12.0 East, M.P.M.</u> Section 36: W½, NW¼NE¼, SW¼SE¼	County: Hill 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 Encore Acquisition / Polaris Explorer USA, Inc. to conduct a 3-D seismic project across the above referenced tract of state land. Polaris Explorer USA, Inc. has been hired on behalf of Encore Operating, L.P. to conduct this seismic project. The Montana DNRC sent out a scoping letter to state surface lessee(s), Donald R. &amp; Kristine Jo Kline regarding this proposed project. The scoping letter identifies the location of the proposed seismic project and how damages will be settled with Polaris Explorer USA, Inc.</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 &amp; Gas are the only governmental agencies with jurisdiction for this type of project. Polaris Explorer USA, Inc. will need to obtain a seismic permit from the Montana DNRC, prior to conducting any seismic activity on this tract of state land. 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><b>Action Alternative:</b> Grant Polaris Explorer USA, Inc. permission to conduct a 3-D seismic project for the exploration of natural gas formations across the above referenced tract of state land. The Montana DNRC will issue Polaris Explorer USA, Inc. a seismic permit to conduct a seismic project across this tract of state land.</p> <p><b>No Action Alternative:</b> The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of 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><b>Action Alternative:</b> 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 this tract 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 for this type of project. There are no special reclamation considerations for this project.</p> <p><b>No Action Alternative:</b> The soils that are located on this tract of state land will not be disturbed. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing 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><b>Action Alternative:</b> The location of the proposed seismic project does not contain any important surface and/or groundwater resources. 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. This type of activity does not have the potential to contaminate drinking water or degrade the present water quality found in this area. This project will not violate any ambient water quality standards within this area.</p> <p><b>No Action Alternative:</b> The water quality, quantity, and distribution will not be impacted on this tract of state land. Water quality standards will not be violated. Drinking water will not be degraded in this area. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</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 proposed seismic project is expected to have a minimal impact on the air quality in the surrounding area. An increase in traffic across this tract of agricultural and grazing land will produce some particulates, throughout the entire course of the project. However, after the seismic company completes the project, traffic will return to normal in this area. The seismic company will be required to use existing roads and trails for moving equipment from place to place.

No Action Alternative: The air quality currently found on this tract of state land and within the surrounding area will not be impacted. No pollutants or particulates will be produced. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing 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 portion of 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*), and woods rose (*Rosa woodsii*).

**Action Alternative:** The proposed project is expected to have a minimal impact on the vegetative cover, quantity, and quality of the native rangeland and agricultural land found on this tract of state land. The agricultural land consists of small strips of stubble from this year's spring wheat crop and summer fallow. The environmental impacts on the agricultural land will be very minimal. The vegetative communities in the immediate area of disturbance will receive minimal impact. There will be no vehicular activity, other than specified on the plat map on both the agricultural and grazing land. The agricultural commodities will be minimally impacted with this type of activity, since the spring wheat crop has been harvested. Polaris Explorer USA, Inc. will settle all surface damages with Donald R. & Kristine Jo Kline within a reasonable time period following the completion of the seismic project. The overall disturbance to the agricultural and grazing land will be 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. No rare plants and cover types exist in this area. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing 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><b>Action Alternative:</b> 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, throughout the course of 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 the seismic project.</p> <p><b>No Action Alternative:</b> The terrestrial and avian life and their habitats associated with this tract of state land will not be altered. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing 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><b>Action Alternative:</b> The timing of this project will take place while the ground is frozen or dry. This will minimize the overall disturbance to existing habitat types, agricultural commodities, and the native rangeland. Federally listed, threatened, and endangered species will be able to migrate through this area with minimal disturbance. Wildlife and bird species may be temporarily displaced with this type of activity. However, these species will not be permanently relocated as a result of 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 located within the immediate area of the proposed disturbance on this tract of state land.</p> <p><b>No Action Alternative:</b> The unique, endangered, fragile or limited environmental resources found within the immediate area of the proposed project will not be impacted. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>

## II. IMPACTS ON THE PHYSICAL ENVIRONMENT

<p>10. HISTORICAL AND ARCHAEOLOGICAL SITES: Are any historical, archaeological or paleontological resources present?</p>	<p><b>Action Alternative:</b> The Montana DNRC has surveyed the proposed project area for existing cultural resources. No historical, archaeological, or paleontological resources are known to exist in the area of the proposed disturbance. The Montana DNRC Archaeologist, Patrick Rennie, was contacted for his input on cultural resources in this area. He has seen no evidence that 3-D seismic activities have an ability to impact any kind of cultural resource, when done on frozen or dry ground.</p> <p><b>No Action Alternative:</b> Unknown or buried historical and archaeological resources present on this tract of state land will not be disturbed. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</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><b>Action Alternative:</b> The proposed project is located in a rural area approximately 7 miles north of Kremlin, Montana. The area that will be disturbed throughout the course of this project will be visible to the public until next spring, when native vegetation begins new growth and new agricultural commodities are seeded on the agricultural land. The project will create some excessive noise throughout the entire course of the seismic 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><b>No Action Alternative:</b> The aesthetic character currently found on this tract of state land will not be altered. The proposed area of disturbance will not be visible to the public. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>

II. IMPACTS ON THE PHYSICAL ENVIRONMENT

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?

**Action Alternative:** The grazing and agricultural lands will receive minimal, short-term impacts with this type of activity. The project will take place while the ground is frozen or dry, in order to limit the impacts on the native rangeland and the agricultural farmland. The project will not use resources that are limited in the area.

**No Action Alternative:** There will be no demands on the environmental resources of land, water, air or energy that is currently found on this tract of state land. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.

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

**Action Alternative:** The DNRC will continue to monitor mineral and surface management activities on state lands to assess the impacts of these types of projects on the surrounding ecosystem. The Montana DNRC will continue to administer the licensed activities that are currently authorized to take place on this tract of state land.

**No Action Alternative:** No further studies, plans, or projects will be needed. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land. The Montana DNRC, Trust Land Management Division, Havre Unit Office will continue to monitor agricultural and grazing management on this tracts of state land, in accordance with Montana State Statute.

III. IMPACTS ON THE HUMAN POPULATION	
RESOURCE	POTENTIAL IMPACTS AND MITIGATION MEASURES
<p>14. HUMAN HEALTH AND SAFETY: Will this project add to health and safety risks in the area?</p>	<p><b>Action Alternative:</b> The seismic company, its subcontractors, and/or their employees understand the risks involved with this type of project. They assume the risks involved in seismic project as an occupational hazard. The project will not add to the human health and safety risks of the people who live and work in this area.</p> <p><b>No Action Alternative:</b> 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. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>
<p>15. INDUSTRIAL, COMMERCIAL AND AGRICULTURAL ACTIVITIES AND PRODUCTION: Will the project add to or alter these activities?</p>	<p><b>Action Alternative:</b> The Montana DNRC has set up stipulations for the seismic company to ensure that the agricultural and grazing 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 native grasses and forbs down, but will not impact the long-term, future forage productivity of the grazing land. The project will have even less of an environmental impact on the agricultural land, since there are no crops planted on it at this time. Surface damages will be settled with the state's surface lessees within a reasonable time period following the completion of the proposed seismic project.</p> <p><b>No Action Alternative:</b> The industrial, commercial, and agricultural activities will not be altered on this tract of state land. Native rangeland forage production will not be reduced. There will be no soil compaction on the agricultural land from the heavy seismic recording vehicles. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>

<p>16. QUANTITY AND DISTRIBUTION OF EMPLOYMENT: Will the project create, move or eliminate jobs? If so, estimated number.</p>	<p><b>Action Alternative:</b> The project will not alter the quantity and distribution of employment in this area. The seismic project will create short-term jobs for Polaris Explorer USA, Inc.'s employees, but will have no impact on the local quantity and distribution of employment.</p> <p><b>No Action Alternative:</b> 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. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>
<p>17. LOCAL AND STATE TAX BASE AND TAX REVENUES: Will the project create or eliminate tax revenue?</p>	<p><b>Action Alternative:</b> The project will not create or eliminate tax revenue in Hill County. The local and state tax bases will remain the same.</p> <p><b>No Action Alternative:</b> The local and state tax base will not be impacted. Tax revenue in Hill County will remain the same. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</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><b>Action Alternative:</b> The project will increase traffic on the existing roads, throughout the entire course 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 this tract of state land.</p> <p><b>No Action Alternative:</b> There will not be a substantial increase in traffic on the existing roads in this area. There will be no demand for additional government services. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>

<p>19. <b>LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS:</b> Are there State, County, City, USFS, BLM, Tribal, etc. zoning or management plans in effect?</p>	<p><b>Action Alternative:</b> 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 get be generated for the trust beneficiaries, through royalties from the sale of natural gas and/or oil, if a well is drilled and it is capable of commercial production. Natural gas and/or oil development proposals will be reviewed through the same MEPA process as seismic projects.</p> <p><b>No Action Alternative:</b> There are no known locally adopted environmental plans or goals for this tract of state land. The Montana DNRC/TLMD does not have any other plans or goals for this tract of state land at this point in time. There are no zoning or management plans in effect for this area.</p>
<p>20. <b>ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES:</b> Are wilderness or recreational areas nearby or accessed through this tract? Is there recreational potential within the tract?</p>	<p><b>Action Alternative:</b> The tract of state land identified in the proposed project does have recreational potential. This tract does 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 not be impacted with this type of project.</p> <p><b>No Action Alternative:</b> The access to and quality of the wilderness and recreational activities found in this area will continue to remain the same. This tract of state land does have legal access and will continue to be used for recreational purposes by people who possess a Montana State Conservation License.</p>

<p>21. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING: Will the project add to the population and require additional housing?</p>	<p><b>Action Alternative:</b> The density and distribution of population and housing will not be impacted with this type of 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 proposed project is located in a rural area approximately 7 miles north of Kremlin, Montana. This area is primarily used for livestock grazing purposes and the production of dryland agricultural commodities.</p> <p><b>No Action Alternative:</b> The density and distribution of population and housing will not change in this area. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>
<p>22. SOCIAL STRUCTURES AND MORES: Is some disruption of native or traditional lifestyles or communities possible?</p>	<p><b>Action Alternative:</b> This project will have a minimal impact on the traditional lifestyles found within 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><b>No Action Alternative:</b> The social structures and mores will continue to stay the same. The native and traditional lifestyles found in this area will not be disrupted. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>
<p>23. CULTURAL UNIQUENESS AND DIVERSITY: Will the action cause a shift in some unique quality of the area?</p>	<p><b>Action Alternative:</b> The proposed activity will not cause a shift in any of the unique qualities that are found within the surrounding area. The seismic project will not change the cultural uniqueness and/or the diversity that is found on this tract of state agricultural and grazing land.</p> <p><b>No Action Alternative:</b> The cultural uniqueness and diversity of the land and its people will not be shifted in any way. The Montana DNRC will not issue Polaris Explorer USA, Inc. a seismic permit to conduct a 3-D seismic project across this tract of state agricultural and grazing land.</p>



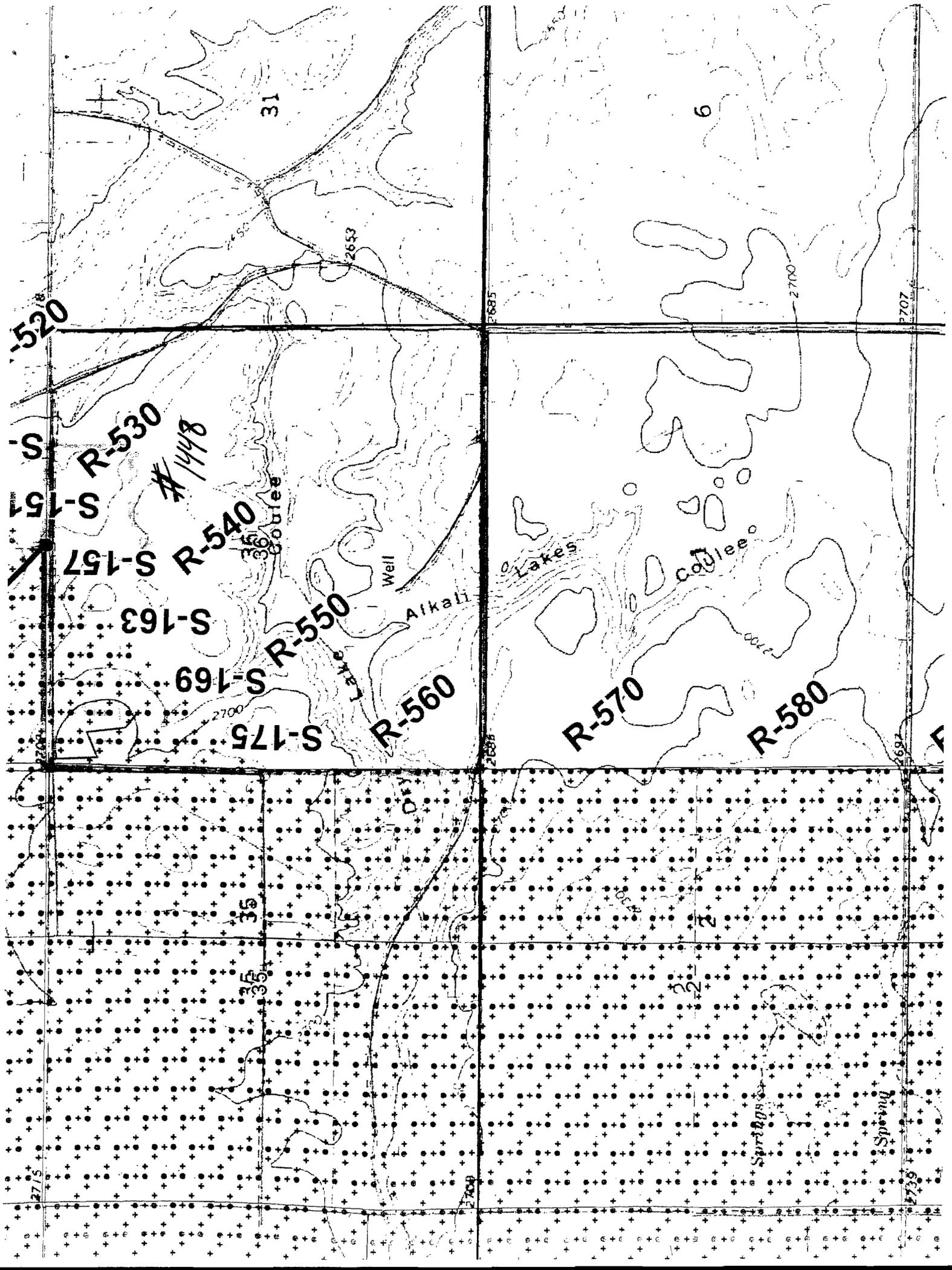
IV. FINDING	
25. ALTERNATIVE SELECTED:	Action
26. SIGNIFICANCE OF POTENTIAL IMPACTS:	N.S. I.
27. Need for Further Environmental Analysis:  <input type="checkbox"/> EIS <input type="checkbox"/> More Detailed EA <input checked="" type="checkbox"/> No Further Analysis	

EA Checklist Approved By: Clive Rooney  
Name

Area Manager, Northeastern Land Office  
Title

  
Signature

11/30/4  
Date



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S-157  
R-530

#1448

S-163  
S-169

S-175  
R-540  
R-550

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35

R-560  
R-570

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2

2

Springs

Spring

Well

Alkali

Lakes

Coolee

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2700

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2704

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