

CHECKLIST ENVIRONMENTAL ASSESSMENT

Project Name:	Proposed Vecta Oil and Gas LTD., Solar 3D Seismic Project, Permit #1572
Proposed Implementation Date:	Spring 2012
Proponent:	Vecta Oil and Gas LTD., C/O John Schroeder, PO Box 1025, Shelby, MT 59474
Location:	See below list of tracts
County:	Toole County
Trust:	Common Schools (CS) and Capitol Buildings (CB), see below list of tracts.

I. TYPE AND PURPOSE OF ACTION

Vecta Oil and Gas LTD has requested a seismic permit to explore for natural gas and/or oil deposits on the tracts (listed below) of State Land in Toole County Montana. The 3D seismic proposal will use vibe trucks (vibrosis) to generate source energy.

Solar 3D SEISMIC PROJECT

Township	Range	Section	Portion	State Surface	Private Surface	State Oil&Gas	Private Oil&Gas	Trust
36N	2W	6	Lot 1	42.16			42.16	CS
36N	2W	19	Lots 2, 3, 4, SW4NE4, NW4SE4, NE4SW4,	219.51			219.51	CB
36N	3W	4	NW4SW4	40.00			40.00	CB
36N	3W	5	SW4NE4	40.00			40.00	CB
36N	3W	9	SE4NW4, S2NE4, SE4SW4	160.00			160.00	CB
36N	3W	9	SW4SW4	40.00		40.00		CS
36N	3W	16	ALL	640.00		640.00		CS
36N	3W	17	NE4NW4, N2NE4	120.00		120.00		
36N	3W	21	SW4NW4	40.00			40.00	CB
37N	3W	34	ALL	640.00		640.00		CS
37N	3W	36	ALL	640.00		640.00		CS
TOTALS				499.51	0.00	0.00	499.51	CB
TOTALS				2,122.16	0.00	2,080.00	42.16	CS

II. PROJECT DEVELOPMENT

1. PUBLIC INVOLVEMENT, AGENCIES, GROUPS OR INDIVIDUALS CONTACTED:

Provide a brief chronology of the scoping and ongoing involvement for this project.

Vecta Oil and Gas LTD., C/O John Schroeder - Proponent
DNRC-Surface and Mineral Owner
Montana Board of Oil and Gas Conservation
Leo and Wilma Flesch-Surface Lessee
Simmes Ranch Inc.-Surface Lessee
Jay and Alex McAlpine-Surface Lessee
Alex McAlpine-Surface Lessee
Vecta Oil and Gas LTD.-Oil and Gas Lessee
Ranck Oil Company Inc.-Oil and Gas Lessee
William J. Strickler, LLC-Oil and Gas Lessee
Tommy C. Craighead-Oil and Gas Lessee
Plain Energy USA, LLC-Oil and Gas Lessee
Robert G. Lockwood-Oil and Gas Lessee

2. OTHER GOVERNMENTAL AGENCIES WITH JURISDICTION, LIST OF PERMITS NEEDED:

The DNRC Trust Land Management Division and Minerals Management Bureau have jurisdiction over this proposed project on State surface and mineral ownership. A County permit and proof of qualification to conduct business in the State of Montana will also be required.

DNRC is not aware of any other agencies with jurisdiction or other permits needed to complete this project

3. ALTERNATIVES CONSIDERED:

Alternative A (No Action) – Deny Vecta Oil and Gas LTD. permission to conduct the 3D seismic survey.

Alternative B (the Proposed action) –Grant Vecta Oil and Gas LTD. permission to conduct the 3D seismic survey using the Conrad Unit Office's recommendations to minimize adverse environmental impacts.

III. IMPACTS ON THE PHYSICAL ENVIRONMENT

- *RESOURCES potentially impacted are listed on the form, followed by common issues that would be considered.*
- *Explain POTENTIAL IMPACTS AND MITIGATIONS following each resource heading.*
- *Enter "NONE" If no impacts are identified or the resource is not present.*

4. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE:

Consider the presence of fragile, compactable or unstable soils. Identify unusual geologic features. Specify any special reclamation considerations. Identify any cumulative impacts to soils.

The soils within the proposed project areas are silty, sandy, dense clays, clays, thin hilly and rough breaks. The terrain of the Solar 3D project is mostly rolling hills, brush filled coulees, and alkali flats consisting of mainly native rangeland. The proposed action may cause localized areas of soil erosion and compaction from the manipulation of vehicles and equipment on the surface. The proposed seismic project work may only be done when the topsoil is dry or frozen to minimize soil erosion and compaction. The proposed action will temporarily disturb a small portion of the landscape. Any impacts to the soil are expected to be minor, and temporary.

Standard Special Stipulations including no vehicle operation during wet or muddy conditions, no seismic testing on slopes greater than 25%, and no seismic testing in wet zones, which will minimize any impacts.

No cumulative effects to the soils are anticipated.

5. WATER QUALITY, QUANTITY AND DISTRIBUTION:

Identify important surface or groundwater resources. Consider the potential for violation of ambient water quality standards, drinking water maximum contaminant levels, or degradation of water quality. Identify cumulative effects to water resources.

There are numerous documented and/or recorded water rights associated with the proposed project areas. There are also numerous reservoirs, pits, and springs in the proposed project areas. The proponent will be required by the Standard Special Stipulations to stay 300 feet from springs, water wells, streams, lakes, or water storage reservoir facilities while conducting vibratory operations. No drilling or blasting operations are planned for this project. Numerous brushy coulees cut the tracts in the proposed project area. Standard Special Stipulations requires no seismic activity within 100 feet of woody draws. This requirement will limit the damage to these areas.

No important surface or groundwater resources will be impacted by the proposed project by utilizing the above Standard Special Stipulations.

Other water quality and/or quantity issues will not be impacted by the proposed action.

6. AIR QUALITY:

What pollutants or particulate would be produced? Identify air quality regulations or zones (e.g. Class I air shed) the project would influence. Identify cumulative effects to air quality.

The proposed seismic project will not consist of any disturbance to soils, so no cumulative effects to air quality are anticipated.

7. VEGETATION COVER, QUANTITY AND QUALITY:

What changes would the action cause to vegetative communities? Consider rare plants or cover types that would be affected. Identify cumulative effects to vegetation.

The vegetation within the proposed project area consists primarily of native rangeland grasses, forbs, and shrubs. Woody draws and riparian areas will be avoided. The vegetation along the proposed seismic routes will be minimally impacted. Restricting the vibroseis and vehicle activity to only frozen and/or dry conditions will minimize any impacts to the vegetation. Vehicle traffic will flatten some standing, native and tame vegetation. Compacted (trampled) vegetation is expected to recover quickly and naturally.

A review of Natural Heritage data through the NRIS was conducted for T36N, R2W: There were no plant species of concern noted or potential species of concern noted.

A review of Natural Heritage data through the NRIS was conducted for T36N, R3W: There were no plant species of concern noted or potential species of concern noted.

A review of Natural Heritage data through the NRIS was conducted for T37N, R3W: There were no plant species of concern noted or potential species of concern noted.

8. TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS:

Consider substantial habitat values and use of the area by wildlife, birds or fish. Identify cumulative effects to fish and wildlife.

The areas are not considered critical wildlife habitat. However, these tracts provide habitat for a variety of big game species (mule deer, whitetail deer, and pronghorn antelope), predators (coyote, fox, and badger), upland game birds (ring neck pheasant, sharp tail grouse, Hungarian partridge), other non-game mammals, raptors and various songbirds. The proposal does not include any land use change which would yield changes to the wildlife habitat. The proposed action will not impact wildlife forage, cover, or traveling corridors. Nor will this action change the juxtaposition of wildlife forage, water, or hiding and thermal cover. Wildlife usage is expected to return to "normal" (pre-action usage) following the seismic operations. Physical ground disturbing activities are not planned. The proposed action will not have long-term negative effects on existing wildlife species and/or wildlife habitat.

9. UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES:

Consider any federally listed threatened or endangered species or habitat identified in the project area. Determine effects to wetlands. Consider Sensitive Species or Species of special concern. Identify cumulative effects to these species and their habitat.

There are no threatened or endangered species, sensitive habitat types, or other species of special concern associated with the proposed project area. At this time, no known unique, endangered, fragile or limited environmental resources have been identified within the proposed project area. Physical ground disturbing activities are not planned.

A review of Natural Heritage data through the NRIS was conducted for T36N, R2W. There was one animal species of concern and one potential species of concern noted on the NRIS survey: Mammals-Hoary Bat. Birds-Short-eared Owl. These particular tracts of agricultural and grazing land do not contain many, if any of these species. If any are present, they will be dispersed into the surrounding permanent cover and return to the project area once it is completed.

A review of Natural Heritage data through the NRIS was conducted for T36N, R3W. There was one animal species of concern and one potential species of concern noted on the NRIS survey: Mammals-Hoary Bat. Birds-Swainson's Hawk. These particular tracts of grazing land do not contain many, if any of these species. If any are present, they will be dispersed into the surrounding permanent cover and return to the project area once it is completed.

A review of Natural Heritage data through the NRIS was conducted for T37N, R3W. There was one animal species of concern and one potential species of concern noted on the NRIS survey: Mammals-Hoary Bat. Birds-Barrow's Goldeneye. These particular tracts of grazing land do not contain many, if any of these species. If any are present, they will be dispersed into the surrounding permanent cover and return to the project area once it is completed.

10. HISTORICAL AND ARCHAEOLOGICAL SITES:

Identify and determine effects to historical, archaeological or paleontological resources.

A review of previous field evaluations as well as on site inspections indicated the presence of numerous stone circles and rock cairns on Section 19, T36N, R2W, Section 4, 5, 9, and 16, T36N, R3W, and Section 34 and 36, T37N, R3W. This type of seismic activity has very low impacts to historical, archaeological, and paleontological resources. The DNRC archaeologist, Patrick Rennie, has been informed of seismic surveys occurring throughout this region and does not have any cultural resource concerns with this type of seismic exploration as long as the operations are restricted to dry or frozen soil conditions.

The proponent will be required by the Standard Special Stipulations to avoid and report any historical, archeological, and paleontological resources encountered in the project area as well to conduct seismic activities only during dry and frozen conditions.

11. AESTHETICS:

Determine if the project is located on a prominent topographic feature, or may be visible from populated or scenic areas. What level of noise, light or visual change would be produced? Identify cumulative effects to aesthetics.

During seismic operations, a variety of vehicles, including ATVS, pickups, buggies, and large vibroseis trucks will be seen and possibly heard by people in the vicinity of the operations. The survey vehicles and equipment will only be visible during the seismic operation and therefore no long term affects to the aesthetics of this area will occur.

The state land does not provide any unique scenic qualities not also provided on adjacent private lands. The proposed activity will be conducted in a remote area, so there would be no change to the aesthetics in either alternative.

No direct or cumulative effects to aesthetics are anticipated.

12. DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR OR ENERGY:

Determine the amount of limited resources the project would require. Identify other activities nearby that the project would affect. Identify cumulative effects to environmental resources.

The demand on environmental resources such as land, water, air, or energy will not be affected by the proposed action. The proposed action will not consume resources that are limited in the area. There are no other projects in the area that will affect the proposed project.

13. OTHER ENVIRONMENTAL DOCUMENTS PERTINENT TO THE AREA:

List other studies, plans or projects on this tract. Determine cumulative impacts likely to occur as a result of current private, state or federal actions in the analysis area, and from future proposed state actions in the analysis area that are under MEPA review (scoped) or permitting review by any state agency.

There are no other projects or plans being considered on the tracts listed on this EA.

IV. IMPACTS ON THE HUMAN POPULATION
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| <ul style="list-style-type: none">• <i>RESOURCES potentially impacted are listed on the form, followed by common issues that would be considered.</i>• <i>Explain POTENTIAL IMPACTS AND MITIGATIONS following each resource heading.</i>• <i>Enter "NONE" if no impacts are identified or the resource is not present.</i> |
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14. HUMAN HEALTH AND SAFETY:

Identify any health and safety risks posed by the project.

There will be some health and safety concerns associated with the operation of heavy seismic equipment in remote areas during the spring. The proponent and their employees are aware of any health and safety hazards and accept them as occupational hazards.

Once the survey has been completed, there will be no health and safety concerns associated with this project.

15. INDUSTRIAL, COMMERCIAL AND AGRICULTURE ACTIVITIES AND PRODUCTION:

Identify how the project would add to or alter these activities.

The local economy (motels, restaurants, etc.) will benefit from this project. This project will not add to or deter from other industrial, agricultural, or commercial activities in this area.

This proposed oil and gas exploration project could lead to increased oil and gas drilling activity in the area. There is a potential for increased industrial activity associated with oil and gas production in this area.

16. QUANTITY AND DISTRIBUTION OF EMPLOYMENT:

Estimate the number of jobs the project would create, move or eliminate. Identify cumulative effects to the employment market.

The proposed activity will create a limited number of jobs. These positions are already held by employees of the proponent. No new jobs will be created.

No cumulative effects to the employment market are anticipated.

17. LOCAL AND STATE TAX BASE AND TAX REVENUES:

Estimate tax revenue the project would create or eliminate. Identify cumulative effects to taxes and revenue.

This seismic project will temporarily increase the tax base or tax revenues through payroll taxes and vehicle registrations.

There are no other direct or cumulative effects to taxes or revenue for the proposed project.

18. DEMAND FOR GOVERNMENT SERVICES:

Estimate increases in traffic and changes to traffic patterns. What changes would be needed to fire protection, police, schools, etc.? Identify cumulative effects of this and other projects on government services

There will be a temporary increase in local traffic if this project is approved, but the traffic levels will return to normal, "pre-action", levels once the project is completed.

There will be no direct or cumulative effects on government services.

19. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS:

List State, County, City, USFS, BLM, Tribal, and other zoning or management plans, and identify how they would affect this project.

The proposed action is in compliance with State and County laws. No other management plans are in effect for the area.

20. ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES:

Identify any wilderness or recreational areas nearby or access routes through this tract. Determine the effects of the project on recreational potential within the tract. Identify cumulative effects to recreational and wilderness activities.

The tracts of state land are rural and generally have low recreational value. The majority of the tracts are legally accessible and the proposed action is not expected to impact general recreational and wilderness activities on the state tracts.

21. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING:

Estimate population changes and additional housing the project would require. Identify cumulative effects to population and housing

The proposal does not include any changes to housing or developments.

No direct or cumulative effects to population or housing are anticipated.

22. SOCIAL STRUCTURES AND MORES:

Identify potential disruption of native or traditional lifestyles or communities.

There are no native, unique or traditional lifestyles or communities in the vicinity that would be impacted by the proposal.

23. CULTURAL UNIQUENESS AND DIVERSITY:

How would the action affect any unique quality of the area?

The proposed action will not impact the cultural uniqueness or diversity of the area.

24. OTHER APPROPRIATE SOCIAL AND ECONOMIC CIRCUMSTANCES:

Estimate the return to the trust. Include appropriate economic analysis. Identify potential future uses for the analysis area other than existing management. Identify cumulative economic and social effects likely to occur as a result of the proposed action.

The Solar 3D project will traverse 2,122.16 Common Schools Trust Surface acres and 499.51 Capitol Buildings Surface acres. The Settlement of Damages will return \$5.00/acre to the Common Schools Trust for surface only with no lessee consisting of 42.16 acres for a total of \$210.80. The Settlement of Damages will return \$5.00/acre to the Capitol Buildings Trust for surface only with surface lessees consisting of 499.51 acres for a total of \$2,497.55. The total amount due to the DNRC is \$2,708.35. There is also potential for the proposed project to locate extractable gas and/or oil resources on state land.

The development of gas and oil resources would generate additional revenue to the trusts.

EA Checklist Prepared By:	Name: Tony Nickol	Date: March 26, 2012
	Title: Land Use Specialist, Conrad Unit, Central Land Office	

V. FINDING

25. ALTERNATIVE SELECTED:

Alternative B (the Proposed action) – Alternative B (the Proposed action) – Grant Vecta Oil and Gas LTD. permission to conduct the 3D seismic survey using the Conrad Unit Office's recommendations to minimize adverse environmental impacts.

26. SIGNIFICANCE OF POTENTIAL IMPACTS:

Significant impacts are not anticipated to occur as a result of issuing this seismic permit. This project is located within the Kevin / Sunburst oil and gas field. Seismic testing practices in this area are well established, common practices which have demonstrated to result in little long term impact. There are no critical or unique habitats within the project area and stipulations within the seismic permit and on attachment "A" will address immediate resource concerns.

27. NEED FOR FURTHER ENVIRONMENTAL ANALYSIS:

EIS

More Detailed EA

No Further Analysis

EA Checklist Approved By:	Name: Erik Eneboe
	Title: Conrad Unit Manager, CLO, DNRC
Signature: 	Date: March 26, 2012

Solar 3D with State lands

