

2013 Geothermal Lease Sale

Winnemucca District Office

General Lease Stipulations

Applicable to All Nominated Lease Parcels

Cultural & Native American

NV-WDO-CRNA-01, General

The authorized officer of the BLM would consult with the appropriate Native American Tribes and State Historic Preservation Officers regarding historic and cultural resources per Section 106 of the National Historical Preservation Act. The presence of archaeological sites and historic properties would be determined on the basis of a records search and literature review of recorded sites and properties in the proposed lease area and a buffer around the lease area, if appropriate. Additional historical, cultural or ethnographic research, consultation and/or inventories may be required to identify resources, determine effects, mitigate adverse effects and complete the Section 106 process.

Authority/Supporting Documentation:

PEIS for Geothermal Leasing in the Western US, ROD, December 2008

NV-WDO-CRNA-02, NTL/General

All surface disturbing activities proposed after issuance of the lease are subject to compliance with Section 106 of the National Historic Protection Act (NHPA) and its implementation through the protocol between the BLM Nevada State Director and the Nevada State Historic Preservation Officer.

Authority/Supporting Documentation:

EA-NV-02-029 Geothermal Resources Leasing PEA, DR, September 2002

Lands & Realty

NV-WDO-L&R-01, NTL

This parcel contains linear Right(s)-of-Way. Contact ROW holder prior to any geothermal activities. No drilling, including exploration or development activities, within linear rights-of-way. Maintain a safe distance from electric conductors as recommended by the National Electric Safety Code.

Authority/Supporting Documentation:

EA-NV-02-029 Geothermal Resources Leasing PEA, DR, September 2002

Paleontological Resources

NV-WDO-PALEO-01, NTL/General

This area has low potential for vertebrate paleontological resources. Potential Fossil Yield Classification (PFYC) 1 & 2: Very Low/Low Potential.

This area may contain vertebrate paleontological resources. In the event that previously undiscovered paleontological resources are discovered in the performance of any surface disturbing activities, the item(s) or condition(s) will be left intact and immediately brought to the attention of the authorized officer of the BLM. If fossils are discovered, avoidance or data recovery will be required prior to their disturbance if they are deemed to be of scientific importance. Surface restrictions may be applied to surface disturbing activities.

Authority/Supporting Documentation:

PEIS for Geothermal Leasing in the Western US, ROD, December 2008;
WO-IM-2008-009, Potential Fossil Yield Classification (PFYC) System for Paleontological Resources on Public Lands, dated October 15, 2007;
WO-IM-2009-011, Assessment and Mitigation of Potential Impacts to Paleontological Resources, dated October 10, 2008.

Threatened & Endangered & Special Status Species:

NV-WDO-SSS-01, General/NTL

The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed, threatened, endangered, or other special status species or result in the destruction or adverse modifications of a designated or proposed critical habitat. BLM will not approve any ground disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act, 16 U.S.C. 1531, as amended, including completion of any required procedure for conference or consultation.

NTL: All plants and any member of the animal kingdom, including without limitation any mammal, fish, bird, amphibian, reptile, mollusk, crustacean, arthropod, or other invertebrates, (BLM Manual Rel. 6840, IM 2009-039), designated as endangered, threatened, or other special status will be considered in each project proposal. The parcel habitat will be evaluated for the presence or potential presence of any listed species. If special status species are located on sites proposed for development, it may be necessary to exclude disturbance activities or develop mitigation measures. It is the applicant's responsibility to address the impacts of the proposed activities on known or potential species and offer alternative proposals or mitigation measures to the BLM for consideration. Surveys will be performed at the applicant's expense by a biologist and/or botanist acceptable to the BLM. Survey methodology will follow Winnemucca District established protocols. Any variation from the Winnemucca District developed protocols must be

approved in advance by the BLM. Surveys will be conducted at an appropriate time (seasonally and hourly) with regard to species specificity.

Authority/Supporting Documentation:

PEIS for Geothermal Leasing in the Western US, ROD, December 2008

BLM Instruction Memorandum No. 2002-174, Oil and Gas Lease Stipulations, dated May 21, 2002;

WO-IM2009-039, Transmittal of Revised 6840 Special Status Species Manual and Direction for State Directors to Review and Revise Existing Bureau Sensitive Species Lists, dated December 12, 2008;

BLM Manual Rel. 6840, Special Status Species Management, dated January 17, 2001; Supersedes Rel. 6-116;

IM-NV-2003-064, Pygmy Rabbit Surveys, dated May 16, 2003

Wildlife Stipulations

NV-WDO-WILD-05, General

Sensitive Species Stipulation. **Controlled Surface use or Timing Limitation to protect agency-designated sensitive species.** For agency-designated sensitive species (e.g. sage grouse), a lease stipulation (controlled surface use, or timing limitations) would be imposed for those portions of high value/key/crucial species habitat where other existing measures are inadequate to meet agency management objectives.

NTL: Based on habitat characteristics, the lessee may be required to conduct surveys for sensitive species that may potentially utilize the area.

Authority/Supporting Documentation:

PEIS for Geothermal Leasing in the Western US, ROD, December 2008

NV-WDO-WILD-07, General/NTL

General migratory birds timing limitation. Ground disturbing activities during the migratory bird-nesting season (approximately March through July) shall not be conducted in order to avoid potential violation of the Migratory Bird Act of 1918. Should ground-disturbing activities be necessary during this period, appropriate inventories for migratory birds shall be conducted no sooner than 10 days prior to ground-disturbance. This survey would identify either breeding adult birds or nest sites within the areas to be disturbed. If active nests are present, the proponent would coordinate with the BLM to develop appropriate protection measures for these sites, which may include avoidance, construction constraints, and/or establish buffers.

NTL: The general definition of the migratory bird nesting season may be modified with consideration to the bird species that may potentially (based on habitat analysis) utilize the area. Surveys will be performed no more than ten (10) and no less than three (3) days prior to proposed disturbance activities. The applicant will notify the BLM biologist no less than five (5) work days prior to a survey being conducted. The surveys will be performed at the applicant's expense by a biologist acceptable to the BLM. Survey methodology will follow Winnemucca

District established protocols and approval by the BLM biologist. BLM personnel have the option of accompanying the applicant's surveyor. Surveys will be conducted at an appropriate time (seasonally and hourly) with regard to species specificity. Protective measures will be implemented during all phases of reproductive behavior (i.e. courtship, nest building, nesting & fledging).

Authority/Supporting Documentation:

EA-NV-02-029 Geothermal Resources Leasing PEA, DR, September 2002

NV-WDO-WILD-08, General/NTL

Eagles and Raptors. Bald or Golden eagles or other raptors or their habitat may be present in the lease area or within the vicinity of the lease area. The listed Instruction Memorandums (IMs) will apply to this lease parcel unless they have been superseded by further BLM directives at the time of and during the processing of an applicant's proposed action.

Authority/Supporting Documentation:

IM-NV-2010-063, Guidance for the Development of Project-specific Avian and Bat Protection Plans for Renewable Energy Facilities, dated August 30, 2010;

WO-IM-2010-156, Bald and Golden Eagle Protection Act- Golden Eagle National Environmental Policy Act and Avian Protection Plan Guidance for Renewable Energy, dated July 9, 2010;

IM-NV-2010-034, Consultation under the Bald and Golden Eagle Act for Projects, dated May 6, 2010;

WO-IM-2008-086, Bureau-wide Guidance for Raptor (Birds of Prey) Protection and Conservation, dated March 11, 2008

NV-WDO-WILD-09, General/NTL

Bats. Any bat species or habitat suitable for bats may be present in the lease area or within the vicinity of the lease area. The listed Instruction Memorandums (IMs) will be applicable to this lease parcel unless they have been superseded by further BLM directives at the time of and during the process of an applicant's proposed action.

Authority/Supporting Documentation:

WO-IM-2010-181, Wildlife, Threatened and Endangered Species, Recreation, and Abandoned Mine Lands, dated August 19, 2010;

IM-NV-2010-063, Guidance for the Development of Project-specific Avian and Bat Protection Plans for Renewable Energy Facilities, dated August 30, 2010

NV-WDO-WILD-10, General/NTL

Other Biota. Prior to site development, a survey for invertebrates will be conducted on areas where geothermal surface expressions occur.

Authority/Supporting Documentation:

EA-NV-02-029 Geothermal Resources Leasing PEA, DR, September 2002

Water Resources

NV-WDO-WATER-01, General/NTL

Monitoring surface and subsurface water resources. As exploration and development activities commence, the operator shall institute a surface and subsurface hydrologic monitoring program. The details of the monitoring programs will be site-specific and the intensity shall be commensurate with the level of exploration.

Authority/Supporting Documentation:

EA-NV-02-029 Geothermal Resources Leasing PEA, DR, September 2002;

PEIS for Geothermal Leasing in the Western US, October 2008;