



# United States Department of the Interior



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In Reply Refer To:  
3201  
NVW010.41

To: Lorenzo Trimble, Geothermal Lead, Nevada State Office

From: David Kampwerth, Field Manager, Humboldt River Field Office

Subject: October 2016 Geothermal Lease Parcels in the Humboldt River Field Office

In the end of April 2016, the Humboldt River Field Office (HRFO) received a Competitive Geothermal Lease Sale Memorandum from the Nevada State Office (NSO) containing a list of four geothermal lease parcels proposed for competitive sale on October 24, 2016. The HRFO staff has completed an initial review of the proposed geothermal lease parcels located within our jurisdiction.

Based upon our review, the HRFO recommends that the four parcels identified as Parcel 1 (NV-16-10-004), Parcel 2 (NV-16-10-005), Parcel 3 (NV-16-10-006), and Parcel 4 (NV-16-10-009) are eligible sites and should be made available for the upcoming geothermal lease sale. All four parcels were addressed in the attached Determination of National Environmental Policy Act Adequacy (DNA) and associated Decision Record (DR). All parcels are subject to the General Lease Stipulations. In addition, attachments to the DNA and DR detail site specific lease stipulations for each parcel.

The following resources were used in the evaluation of the nominated parcels: Programmatic Environmental Impact Statement for Geothermal Leasing in the Western United States, Record of Decision and Resource Management Plan Amendments for Geothermal Leasing in the Western United States, December 2008; BLM Final EIS Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 21, 2015; BLM Record of Decision and Approved Resource Management Plan Amendments for the Great Basin Region, Including the Greater Sage-grouse Sub-Regions of Idaho and Southwestern Montana, Nevada and Northeastern California, Oregon, Utah, September 2015.

A good faith effort has been made to consult with Tribes and incorporate their concerns, as we know them, into our recommendations. The future location of a proposed Traditional Cultural Property (TCP) in the vicinity of Black Warrior Peak was indicated to potentially overlap with portions of Parcels 1-3. In accordance with the 2015 Winnemucca District Resource Management Plan, Fluid Mineral Lease Sale Stipulations, HRFO will not permit surface occupancies in areas intersecting the proposed TCP. Native American Consultation continues and future concerns may arise. Should future concerns become evident prior to the time of sale, HRFO will promptly notify the NSO.

If you have any questions, please contact me at (775) 623-1501.

Sincerely,

A handwritten signature in blue ink, appearing to read "D. H. Kampwerth", with a stylized flourish at the end.

David Kampwerth  
Field Manager  
Humboldt River Field Office

**Attachments:**

- Decision Record
- DNA

## **Decision Record**

### **Determination of NEPA Adequacy (DNA) DOI-BLM-NV-010-2016-0014-DNA**

#### **2016 Geothermal Lease Parcels Subject to the Resource Management Plan for the Winnemucca District Planning Area**

I have reviewed the Determination of National Environmental Policy Act Adequacy (DNA), DOI-BLM-NV-010-2016-0014-DNA, evaluating four (4) geothermal lease parcels proposed for sale on October 26, 2016. I have determined that the proposed action is in conformance with the BLM Final EIS Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, approved May 21, 2015.

On the basis of the information contained in the DNA Worksheet, it has been determined that the lands nominated for geothermal leasing, which are identified on the attached parcel maps, are open for geothermal leasing, subject to the attached stipulations, and will not have environmental impacts beyond those already addressed in: Programmatic Environmental Impact Statement for Geothermal Leasing in the Western United States, Record of Decision and Resource Management Plan Amendments for Geothermal Leasing in the Western United States, December 2008; BLM Final EIS Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 21, 2015; BLM Record of Decision and Approved Resource Management Plan Amendments for the Great Basin Region, Including the Greater Sage-grouse Sub-Regions of Idaho and Southwestern Montana, Nevada and Northeastern California, Oregon, Utah, September 2015.

It is my decision to recommend that the parcels identified in the DNA, be offered subject to the attached stipulations, for a tentatively scheduled October 26, 2016, competitive geothermal lease sale. All parcels or parts thereof, are subject to the attached site specific lease stipulations and the general lease stipulations. Parcel maps have been attached for spatial reference. Recognize that a good faith effort has been made to consult with Tribes and incorporate their concerns, as we know them, into our recommendations. Native American Consultation continues and future concerns may arise. Should future concerns become evident prior to the time of sale, HRFO will promptly notify the NSO.

#### **AUTHORITY**

- The Geothermal Steam Act of 1970, Title 30, United States Code (USC), Chapter 23, Sections 1001 et seq. (30 USC 1001 et seq.).
- 43 CFR 3200, Geothermal Resources Leasing and Operations; Final Rule, May 2, 2007.
- Energy Independence and Security Act 2007 (Public Law 110-140)
- The 2005 Energy Policy Act; The National Energy Policy, Executive Order 13212

#### **APPEAL PROVISIONS**

A person who wishes to appeal to the Interior Board of Land Appeals must do so under 43 CFR 4.411 and must file in the office of the officer who made the decision (not the board), in writing to David Kampwerth, Field Manager, Humboldt River Field Office, 5100 East Winnemucca Blvd, Winnemucca, Nevada 89445. A person served with the decision being appealed must transmit the notice of appeal in time to be filed in the office where it is required to be filed within thirty (30) days after the date of service.

The notice of appeal must give the serial number or other identification of the case and may include a statement of reasons for the appeal, a statement of standing if required by §4.412(b), and any arguments the appellant wishes to make. Attached Form 1842-1 provides additional information regarding filing an appeal.

No extension of time will be granted for filing a notice of appeal. If a notice of appeal is filed after the grace period provided in §4.401(a), the notice of appeal will not be considered and the case will be closed by the officer from whose decision the appeal is taken. If the appeal is filed during the grace period provided in §4.401(a) and the delay in filing is not waived, as provided in that section, the notice of appeal will not be considered and the appeal will be dismissed by the Board.

The appellant shall serve a copy of the notice of appeal and any statements of reason, written arguments, or briefs under §4.413 on each adverse party named in the decision from which the appeal is taken and on the Office of the Solicitor, Pacific Southwest Regional Solicitor, U.S. Department of the Interior, 2800 Cottage Way, Room E-2753, Sacramento, California 95825-1890.

Service must be accompanied by personally serving a copy to the party or by sending the document by registered or certified mail, return receipt requested, to the address of record in the bureau, no later than 15 days after filing the document.

In addition, within thirty (30) days of receipt of this decision you have the right to file a petition for a stay together with your appeal in accordance with the regulations at 43 CFR 4.21. The petition must be served upon the same parties specified above.

Pursuant to 43 CFR 4.471(c), a petition for a stay, if filed, must show sufficient justification based on the following standards:

- 1) The relative harm to the parties if the stay is granted or denied;
- 2) The likelihood of the appellant's success on the merits;
- 3) The likelihood of immediate and irreparable harm if the stay is not granted; and,
- 4) Whether the public interest favors granting the stay.

43 CFR 4.471(d) provides that the appellant requesting a stay bears the burden of proof to demonstrate that a stay should be granted.

At the conclusion of any document that a party must serve, the party or its representative must sign a written statement certifying that service has been or will be made in accordance with the applicable rules and specifying the date and manner of such service (43 CFR 4.422(c)(2)).



**Signature Page for  
Decision Record  
DOI-BLM-NV-W010-2016-0014-DNA**

Authorized Official:  Date: July 27 2016  
Field Manager, Humboldt River Field Office

**Attachments:**

- Form 1842-1
- DNA
- Parcel Worksheets
- Parcel Maps
- Parcel Information and Legal Descriptions

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

INFORMATION ON TAKING APPEALS TO THE INTERIOR BOARD OF LAND APPEALS

DO NOT APPEAL UNLESS

1. This decision is adverse to you,  
AND
2. You believe it is incorrect

IF YOU APPEAL, THE FOLLOWING PROCEDURES MUST BE FOLLOWED

1. NOTICE OF  
APPEAL.....

A person who wishes to appeal to the Interior Board of Land Appeals must file in the office of the officer who made the decision (not the Interior Board of Land Appeals) a notice that he wishes to appeal. A person served with the decision being appealed must transmit the *Notice of Appeal* in time for it to be filed in the office where it is required to be filed within 30 days after the date of service. If a decision is published in the FEDERAL REGISTER, a person not served with the decision must transmit a *Notice of Appeal* in time for it to be filed within 30 days after the date of publication (43 CFR 4.411 and 4.413).

2. WHERE TO FILE

NOTICE OF APPEAL.....

Bureau of Land Management, Nevada State Office  
1340 Financial Blvd.  
Reno, NV 89502-7147

WITH COPY TO  
SOLICITOR.....

Regional Solicitor Pacific Southwest Region, United States Dept. of the Interior  
2800 Cottage Way, Room E-1712, Sacramento, CA 95825

3. STATEMENT OF REASONS

Within 30 days after filing the *Notice of Appeal*, file a complete statement of the reasons why you are appealing. This must be filed with the United States Department of the Interior, Office of Hearings and Appeals, Interior Board of Land Appeals, 801 N. Quincy Street, MS 300-QC, Arlington, Virginia 22203. If you fully stated your reasons for appealing when filing the *Notice of Appeal*, no additional statement is necessary (43 CFR 4.412 and 4.413).

WITH COPY TO  
SOLICITOR.....

Regional Solicitor Pacific Southwest Region, United States Dept. of the Interior  
2800 Cottage Way, Room E-1712, Sacramento, CA 95825

4. ADVERSE PARTIES.....

Within 15 days after each document is filed, each adverse party named in the decision and the Regional Solicitor or Field Solicitor having jurisdiction over the State in which the appeal arose must be served with a copy of: (a) the *Notice of Appeal*, (b) the Statement of Reasons, and (c) any other documents filed (43 CFR 4.413).

5. PROOF OF SERVICE.....

Within 15 days after any document is served on an adverse party, file proof of that service with the United States Department of the Interior, Office of Hearings and Appeals, Interior Board of Land Appeals, 801 N. Quincy Street, MS 300-QC, Arlington, Virginia 22203. This may consist of a certified or registered mail "Return Receipt Card" signed by the adverse party (43 CFR 4.401(c)).

6. REQUEST FOR STAY.....

Except where program-specific regulations place this decision in full force and effect or provide for an automatic stay, the decision becomes effective upon the expiration of the time allowed for filing an appeal unless a petition for a stay is timely filed together with a *Notice of Appeal* (43 CFR 4.21). If you wish to file a petition for a stay of the effectiveness of this decision during the time that your appeal is being reviewed by the Interior Board of Land Appeals, the petition for a stay must accompany your *Notice of Appeal* (43 CFR 4.21 or 43 CFR 2801.10 or 43 CFR 2881.10). A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of the *Notice of Appeal* and Petition for a Stay must also be submitted to each party named in this decision and to the Interior Board of Land Appeals and to the appropriate Office of the Solicitor (43 CFR 4.413) at the same time the original documents are filed with this office. If you request a stay, you have the burden of proof to demonstrate that a stay should be granted.

**Standards for Obtaining a Stay.** Except as otherwise provided by law or other pertinent regulations, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards: (1) the relative harm to the parties if the stay is granted or denied, (2) the likelihood of the appellant's success on the merits, (3) the likelihood of immediate and irreparable harm if the stay is not granted, and (4) whether the public interest favors granting the stay.

Unless these procedures are followed, your appeal will be subject to dismissal (43 CFR 4.402). Be certain that all communications are identified by serial number of the case being appealed.

**NOTE:** A document is not filed until it is actually received in the proper office (43 CFR 4.401(a)). See 43 CFR Part 4, Subpart B for general rules relating to procedures and practice involving appeals.

#### 43 CFR SUBPART 1821--GENERAL INFORMATION

Sec. 1821.10 Where are BLM offices located? (a) In addition to the Headquarters Office in Washington, D.C. and seven national level support and service centers, BLM operates 12 State Offices each having several subsidiary offices called Field Offices. The addresses of the State Offices can be found in the most recent edition of 43 CFR 1821.10. The State Office geographical areas of jurisdiction are as follows:

##### STATE OFFICES AND AREAS OF JURISDICTION:

Alaska State Office ----- Alaska  
Arizona State Office ----- Arizona  
California State Office ----- California  
Colorado State Office ----- Colorado  
Eastern States Office ----- Arkansas, Iowa, Louisiana, Minnesota, Missouri  
and, all States east of the Mississippi River  
Idaho State Office ----- Idaho  
Montana State Office ----- Montana, North Dakota and South Dakota  
Nevada State Office ----- Nevada  
New Mexico State Office ---- New Mexico, Kansas, Oklahoma and Texas  
Oregon State Office ----- Oregon and Washington  
Utah State Office ----- Utah  
Wyoming State Office ----- Wyoming and Nebraska

(b) A list of the names, addresses, and geographical areas of jurisdiction of all Field Offices of the Bureau of Land Management can be obtained at the above addresses or any office of the Bureau of Land Management, including the Washington Office, Bureau of Land Management, 1849 C Street, NW, Washington, DC 20240.

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(Form 1842-1, September 2006)

**Worksheet**  
**Determination of NEPA Adequacy (DNA)**  
U.S. Department of the Interior  
Bureau of Land Management

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OFFICE: Humboldt River Field Office (HRFO) Winnemucca District (WD).

TRACKING NUMBER: DOI-BLM-NV-W010-2016-0014-DNA

CASEFILE/PROJECT NUMBER: Refer to parcel numbers listed on the attached list of legal descriptions

PROPOSED ACTION TITLE/TYPE: Geothermal Lease Parcel Nominations for October 2016 sale

LOCATION/LEGAL DESCRIPTION: See attached general and site vicinity maps and list of legal descriptions

APPLICANT (if any): Nevada BLM

**A. Description of the Proposed Action with attached map(s) and any applicable mitigation measures.**

**Who:** BLM Nevada State Office (NSO)

**What:** The NSO is proposing to include in the 2016 geothermal lease sale four (4) nominated geothermal parcels that are located within the area administered by the Humboldt River Field Office (HRFO).

**When:** October 2016 geothermal lease sale

**Where:** Three of the parcels are located in the Truckee Range 6.5 miles east of the southern shoreline of Pyramid Lake. One parcel is located on the I-80 corridor 5.5 miles northeast of Lovelock. See attached maps and parcel legal descriptions.

**Why:** The NSO is requesting HRFO to review nominated parcels for conformance with the WDRMP, recommend appropriate lease stipulations, and advise on any parcels that may need to be deferred.

**How:** The 4 geothermal parcels are being reviewed against the existing National Environmental Policy Act (NEPA) documents as identified in part C of this worksheet to determine if these parcels are open for leasing in the WD and under what conditions. This review includes identifying the appropriate geothermal lease stipulations and any

necessary Notice to Leasee (NTL) that would be made a part of any subsequent Offer to Lease for Geothermal Resources.

Lease issuance alone does not authorize any ground-disturbing activities to explore for or develop geothermal resources without site-specific approval for the intended operation. Such approval could include additional environmental reviews and permits.

## **B. Land Use Plan (LUP) Conformance**

*The Winnemucca District Resource Management Plan (WDRMP) and Final Environmental Impact Statement, May 2015, as amended by the Record of Decision and Approved Resource Management Plan Amendments for the Great Basin Region Including the Greater Sage-Grouse Sub-Regions of Idaho and Southwestern Montana, Nevada and Northeastern California, Oregon, and Utah, September 21, 2015 (GRSG Plan Amendment).*

The proposed action is in conformance with the applicable WDRMP as amended because it is specifically provided for in the following WDRMP as amended decisions:

### WDRMP

#### Objective MR 4:

Lands within the WD will be open to geothermal and oil and gas leasing and development except where incompatible with important resource values. Protect, manage, and conserve lands acquired in a manner consistent with the goals of the acquisition and the resource values present, in accordance with those Actions described below, and considering the management applied to adjacent public lands.

Action MR 4.1: Maintain 5,492,707 acres as open to leasing. Offer fluid mineral leases in those areas identified as open to leasing (Figure 2-13, Appendix A of the WDRMP). Protect, manage, and conserve important resource values in otherwise open areas by applying stipulations determined to be necessary to reasonably protect other resources as depicted on Figure 2-13, Appendix A and described in the text.

Action MR 4.1.1: 2,851,895 acres will be open with only standard lease terms and stipulations (Figure 2-13, Appendix A of the WDRMP). (Note: Survey for and mitigation of impacts on cultural resources, sensitive species, and migratory birds are considered standard stipulations [see Actions CR 1.1, CR 1.2, SSS 3.2, SSS 6.1.1, SSS 7.1.1, and FW 4.1, see WDRMP Appendix L, Winnemucca Fluid Mineral Lease Sale Stipulations]).

Action MR 4.1.2: 2,435,327 acres will be open, with standard lease terms and stipulations, as well as one or more of the following seasonal or other restrictions listed below (Figure 2-13, Appendix A of the WDRMP):

- a. PMUs that are not within priority wildlife habitat areas (see Action SSS 5.2.2).
- b. Within HMAs, where proposed activities could result in adverse impacts on the health and welfare of WHB (see Action WHB 4.1).
- c. Within defined avoidance areas (See Action LR 5.2).
- d. Within priority watersheds that are not T&E species habitat (see Actions WR 3.2 and WR 3.2.1).
- e. Areas in VRM Class I, II, or III (see Visual Resources Goal, Objective VRM 1, and Action VRM 1.1).

Action MR 4.1.3: 205,485 acres will be open to leasing but subject to a no surface occupancy stipulation, applicable to the following (Figure 2-13, Appendix A of the WDRMP):

- a. No new fluid leasing surface occupancy will be allowed within a mile of the NHT (see Action CR 6.9). To accomplish this, any quarter-quarter-quarter section (10-acre parcel) within or intersected by the trail or the one-mile buffer line will be subject to NSO.
- b. Within an identified TCP listed or considered eligible for the NRHP (see Action TC 2.2.2). To accomplish this, any quarter-quarter-quarter section (10-acre parcel) within or intersected by the TCP will be subject to NSO.
- c. Within the location of an identified paleontological resource classified as being of scientific or educational interest (see Action PR 1.6). To accomplish this, any quarter-quarter-quarter section (10-acre parcel) within or intersected by the site will be subject to NSO.
- d. Priority water supply areas (see Actions WR 3.4).
- e. Within cultural sites that have been determined to be eligible for listing on the NRHP (see Action CR 2.1.1).

Action MR 4.1.3.1: Based on Native American consultation, modifications to no surface occupancy near TCPs or TCP settings may produce recommendations for larger or smaller areas subject to no surface occupancy.

Action MR 4.2: Maintain 1,740,928 acres as closed to leasing. Areas closed to leasing (Figure 2-13, Appendix A of the WDRMP):

- a. Designated WSA or Wilderness (policy);
- b. George Lund Petrified Forest mineral withdrawal (see Actions PR 1. and PR 1.7);
- c. Lovelock Cave right-of-way and proposed mineral withdrawal (Action LR 10.2);
- d. McDermitt Station Administrative Site right-of-way and proposed mineral withdrawal (Action LR 10.2);

- e. Priority Wildlife Habitat Areas and associated PMUs (see Action SSS 5.2.1);
- f. Designated ACECs (see Action ACEC 1.2):
  - 1. Osgood Mountain Milkvetch ACEC (see also Action SSS 3.5),
  - 2. Pine Forest,
  - 3. Raised Bog, and
  - 4. Stillwater (see also Action TC 2.2).
- g. Lands acquired under SNPLMA.
- h. Within priority watersheds that are T&E species habitat (see Action WR 3.2).
- i. Areas closed to OHV use (see Action R 10.1).
- j. Lands acquired under LWCF - automatically closed to all mineral location and entry.
- k. Lands acquired by exchange - closed to mineral location and entry for 90 days and automatically open if BLM doesn't initiate a withdrawal within that time period.
- l. Cultural sites listed on the NRHP.

Action MR 4.2.1: Offer fluid mineral leases to within a quarter mile of a WSA or designated wilderness boundary. To accomplish this, any quarter-quarter section (40-acre parcel) intersected by and including a portion of such a boundary will be excluded from the parcel nominated (IM-NV-2004-093).

#### Objective MR 5:

Manage fluid mineral operations to provide for the energy needs of the nation, while assuring compatibility with and protection of other resources (per the Energy Policy Act of 2005) (DOI 2005).

Action MR 5.1: In addition to applicable lease stipulations, apply standard conditions of approval as necessary to reasonably protect other resources and meet resource objectives.

Action MR 5.2: Compliance inspections will meet existing policy and be of sufficient frequency and detail to ensure appropriate protection of the public interest in production and resource values.

#### GRSG Plan Amendment

Excerpt from **Table 2-1 Summary of Allocation Decisions by GRSG Habitat Management Areas**

<b>Resource</b>	<b>PHMA</b>	<b>GHMA</b>	<b>OHMA</b>
Geothermal	Open with major stipulations	Open with minor stipulations	Open with standard stipulations

#### 2.2.6 Mineral Resources (MR)

Leasable Minerals Objective MR 1: Priority will be given to leasing and development of fluid mineral resources, including geothermal, outside of PHMAs and GHMAs. When analyzing leasing and authorizing development of fluid mineral resources, including geothermal, in PHMAs and GHMAs, that are subject to applicable stipulations for the conservation of GRSG, priority will be given to development in non-habitat areas first and then in the least suitable habitat for GRSG. The implementation of these priorities will be subject to valid existing rights and any applicable law or regulation, including, but not limited to, 30 U.S.C. 226(p) and 43 C.F.R. 3162.3-1(h).

#### Leased Federal Fluid Mineral Estate Actions

**MD MR 8:** Review Objective SSS 4, and to the extent allowed by law, apply MDs SSS 1 through SSS 4 when reviewing and analyzing projects and activities proposed in GRSG habitat.

**MD MR 9:** Use directional and horizontal drilling to reduce surface disturbance.

**MD MR 10:** On leased federal fluid mineral estate, where no APD or geothermal drilling permit (GDP) has been issued, apply RDFs consistent with applicable law and other conditions of approval (COAs) that conserve GRSG. Manage existing fluid mineral leases through COAs applied at the time APD or GDP is approved.

**MD MR 11:** On leased federal fluid mineral estate in PHMAs, complete master development plans for oil and gas in lieu of APD-by-APD, or operations/utilization plans for geothermal processing for all but exploration wells.

**MD MR 12:** On leased, federal, fluid mineral estate in PHMAs, require a full reclamation bond specific to the site. Ensure bonds are sufficient for reclamation costs for full restoration. Base the reclamation costs on the assumption that BLM contractors will perform the work.

**MD MR 13:** In PHMAs and GHMAs, place infrastructure in already disturbed locations to the extent feasible.

**MD MR 14:** Locate new compressor stations outside PHMAs and GHMAs and design them to reduce noise that may be directed toward PHMAs and GHMAs (see MDs SSS 2 and SSS 3 and Appendix M).

#### GRSG Plan Amendment: Appendix C- Required Design Features

#### Fluid Minerals RDFs



**RDF Lease FM 1:** Co-locate power lines, flow lines, and small pipelines under or immediately adjacent to existing roads (Bui et al. 2010) in order to minimize or avoid disturbance.

**RDF Lease FM 2:** Cover, create barriers, or implement other effective deterrents (e.g., netting, fencing, birdballs, and sound cannons) for all ponds and tanks containing potentially toxic materials to reduce GRSG mortality.

**RDF Lease FM 3:** Require installation of noise shields to comply with noise restrictions (see Action SSS 7) when drilling during the breeding, nesting, brood-rearing, and/or wintering season. Require applicable GRSG seasonal timing restrictions when noise restrictions cannot be met (see Action SSS 6).

**RDF Lease FM 4:** Ensure habitat restoration meets GRSG habitat objectives (Table 2-2) for reclamation and restoration practices/sites (Pyke 2011).

**RDF Lease FM 5:** Maximize the area of interim reclamation on long-term access roads and well pads, including reshaping, topsoil management, and revegetating cut-and-fill slopes.

**RDF Lease FM 6:** Restore disturbed areas at final reclamation to the pre-disturbance landforms and meets the GRSG habitat objectives (Table 2-2).

**RDF Lease FM 7:** Use only closed-loop systems for drilling operations and no reserve pits within GRSG habitat.

**RDF Lease FM 8:** Place liquid gathering facilities outside of GRSG habitat. Have no tanks at well locations within GRSG habitat to minimize vehicle traffic and perching and nesting sites for aerial predators of GRSG.

**RDF Lease FM 9:** In GRSG habitat, use remote monitoring techniques for production facilities and develop a plan to reduce vehicular traffic frequency of vehicle use (Lyon and Anderson 2003).

**RDF Lease FM 10:** Use dust abatement practices on well pads.

**RDF Lease FM 11:** Cluster disturbances associated with operations and facilities as close as possible, unless site-specific conditions indicate that disturbances to GRSG habitat would be reduced if operations and facilities locations would best fit a unique special arrangement.

**RDF Lease FM 12:** Apply a phased development approach with concurrent reclamation.

**RDF Lease FM 13:** Restrict pit and impoundment construction to reduce or eliminate augmenting threats from West Nile virus (Dougherty 2007).

**RDF Lease FM 14:** In GRSG habitat, remove or re-inject produced water to reduce habitat for mosquitoes that vector West Nile virus. If surface disposal of produced water continues, use the following steps for reservoir design to limit favorable mosquito habitat (Doherty 2007):

- Overbuild size of ponds for muddy and non-vegetated shorelines
  - Build steep shorelines to decrease vegetation and increase wave actions
  - Avoid flooding terrestrial vegetation in flat terrain or low lying areas
  - Construct dams or impoundments that restrict down slope seepage or overflow
  - Line the channel where discharge water flows into the pond with crushed rock
  - Construct spillway with steep sides and line it with crushed rock.
  - Treat waters with larvicides to reduce mosquito production where water occurs on the surface
- RDF Lease FM 15:** Consider using oak (or other material) mats for drilling activities to reduce vegetation disturbance and for roads between closely spaced wells to reduce soil compaction and maintain soil structure to increase likelihood of vegetation reestablishment following drilling.

Programmatic Environmental Impact Statement for Geothermal Leasing in the Western United States, Record of Decision and Resource Management Plan Amendments for Geothermal Leasing in the Western United States, dated, December 2008.

**C. Identify applicable National Environmental Policy Act (NEPA) documents and other related documents that cover the proposed action.**

1. Programmatic Environmental Impact Statement for Geothermal Leasing in the Western United States, Record of Decision and Resource Management Plan Amendments for Geothermal Leasing in the Western United States, December 2008.
2. BLM Final EIS Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 21, 2015.
3. BLM Record of Decision and Approved Resource Management Plan Amendments for the Great Basin Region, Including the Greater Sage-grouse Sub-Regions of Idaho and Southwestern Montana, Nevada and Northeastern California, Oregon, Utah, September 2015.

**D. NEPA Adequacy Criteria**

**1. Is the new proposed action a feature of, or essentially similar to, an alternative analyzed in the existing NEPA documents(s)? Is the project within the same**

**analysis area, or if the project location is different, are the geographic and resource conditions sufficiently similar to those analyzed in the existing NEPA document(s)? If there are differences, can you explain why they are not substantial?**

Geothermal leasing is a land use plan level activity. Geothermal leasing was evaluated and analyzed in the EIS associated with the WDRMP. A Record of Decision (ROD) was reached on the WDRMP in May 2015. Therefore, the resource allocations made are very current. The four parcels proposed by the NSO are located within areas that are open for fluid mineral leasing either with standard stipulations, with standard and special stipulations or open to leasing with no surface occupancy.

Geothermal leasing is also analyzed in the nationwide programmatic geothermal leasing EIS, ROD 2008.

**2. Is the range of alternatives analyzed in the existing NEPA documents(s) appropriate with respect to the new proposed action, given current environmental concerns, interests, and resource values?**

Yes, the nominated geothermal parcels were reviewed with respect to the range of alternatives analyzed in the existing NEPA documents.

The WDRMP EIS, which analyzed four alternatives in detail, and the EIS associated with the Greater Sage Grouse Plan Amendment (GRSG Plan Amendment) ROD signed September 2015 are very current in light of recent environmental issues, interests, and resources values.

**3. Is the existing analysis valid in light of any new information or circumstances (such as, rangeland health standard assessment, recent endangered species listings, updated lists of BLM-sensitive species)? Can you reasonably conclude that new information and new circumstances would not substantially change the analysis of the new proposed action?**

Yes, the EIS associated with WDRMP is recent and was a comprehensive analysis with extensive public involvement. The WDRMP Appendix L provides fluid lease stipulations. An Interdisciplinary Team (IDT) reviewed the parcels for resource concerns and recommended the appropriate lease stipulations and NTL (see attached parcel worksheets).

**4. Are the direct, indirect, and cumulative effects that would result from implementation of the new proposed action similar (both quantitatively and qualitatively) to those analyzed in the existing NEPA document?**

Yes, geothermal leasing is a land use plan level activity. The direct, indirect and cumulative effects of geothermal leasing were specifically analyzed in the WDRMP EIS and covered the geographic areas where these parcels are located. This EIS is recent and has a comprehensive analysis that was developed through extensive public involvement.

**5. Are the public involvement and interagency review associated with existing NEPA document(s) adequate for the current proposed action?**

The 2008 Programmatic EIS was made available for a 90-day public comment period and 13 public meetings were held in the 12-western states prior to issuing the Record of Decision.

There was extensive public involvement in the development of the WDRMP 2015. For public involvement information refer to WDRMP Executive Summary Section 1.9 *Public Involvement, Consultation and Coordination*.


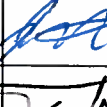
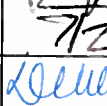
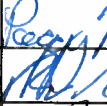

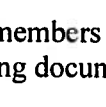
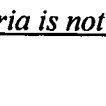
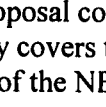
In evaluating these four parcels, the HRFO consulted with the Pyramid Lake Paiute Tribe and coordinated with the Nevada Department of Wildlife.

HRFO made a good faith effort to consult with the Pyramid Lake Paiute Tribe and incorporate their concerns into our recommendations. The future location of a proposed Traditional Cultural Property (TCP) in the vicinity of Black Warrior Peak was indicated to potentially overlap with portions of Parcels NV-16-10-004, NV-16-10-005, and NV-16-10-006. In accordance with the 2015 Winnemucca District Resource Management Plan, Fluid Mineral Lease Sale Stipulations, HRFO will not permit surface occupancies in areas intersecting the proposed TCP. Native American Consultation continues and future concerns may arise. Should future concerns become evident prior to the time of sale, HRFO will promptly notify the NSO.

HRFO was able to address suggestions from NDOW by recommending timing limitations, no surface occupancy, and controlled surface use that is subject to exception, modification, or waiver by the BLM authorized officer (see attached parcel worksheets). If a geothermal lease is sold in any NDOW area of concern, the HRFO may, if requested, evaluate site specific activities and issue special stipulations as part of any subsequent Offer to Lease for Geothermal Resources.

**E. Persons/Agencies/BLM Staff Consulted**

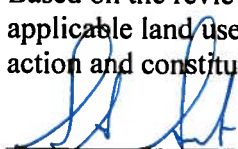
*See previous Section D, Part 5 for agencies consulted. For BLM staff consulted, review signatures, and conclusions, see next page. For stipulations and NTL see attached Parcel Worksheets.*

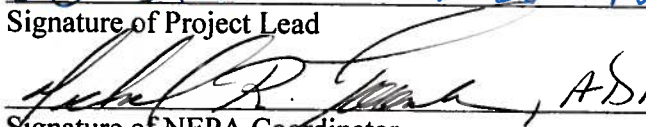
Name /Title	BLM Resource Specialist	Signature/Date
Steve Sappington	Project Lead; Humboldt River Field Office	 7-26-2016
Josef Porter	T & E Species; Special Status Species, General Wildlife Habitat	 7/27/16
Tanner Whetstone	Cultural Resources; Native American Consultation; Historic Trails; Paleontology	 7/27/2016
Debbie Dunham	Lands; Realty	 7-26-16
Peggy McGukian	Recreation	 7-26-16
Robert Gibson	Riparian; Water	 7/27/16 For Bob Gibson
Robert Burton	Soils	 7/27/16
Samantha Gooch	Wild Horse and Burro	 7/27/16 For Samantha Gooch


Note: Refer to the specific EIS for a complete list of the team members participating in the preparation of the original environmental analysis or planning documents.

☐ **Conclusion** *(If you found that one or more of these criteria is not met, you will not be able to check this box.)*

Based on the review documented above, I conclude that this proposal conforms to the applicable land use plan and that the NEPA documentation fully covers the proposed action and constitutes BLM' compliance with the requirements of the NEPA.

 7-26-2016  
Signature of Project Lead

 ADM 7/27/2016  
Signature of NEPA Coordinator

 7/27/16  
Signature of the Responsible Official Date

**Note:** The signed Conclusion on this Worksheet is part of an interim step in the BLM's internal decision process and does not constitute an appealable decision. However, the lease, permit, or other authorization based on this DNA is subject to protest or appeal under 43 CFR Part 4 and the program-specific regulations.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Cultural, NAC, Historic Trails  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NSO/NTL	<b>NV-WD-CRNA-02</b> <b>No Surface Occupancy in National Register of Historic Places sites.</b> No surface occupancy (NSO) in areas containing NRHP eligible, listed and unevaluated sites and TCPs. To accomplish this, any quarter-quarter-quarter section (10-acre parcel) within or intersected by the site would be subject to NSO. For development and production phases, surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the National Historic Preservation Act (NHPA) requirements and Native American consultation process. Additional lands outside the designated boundaries of sites may be added to the NSO restriction to the extent necessary to protect values where the setting and integrity is critical to their designation or eligibility.	<p><b>NSO:</b> A sacred site and traditional cultural property has been identified within T24N R24E Sec. 35 and 36. The no surface occupancy stipulation applies to the following lands in this parcel:</p> <p>T.0240N, R.0240E, 21 MDM, NV Sec. 036 NW</p> <p><b>NTL:</b> No fluid or solid mineral surface occupancy will be allowed within an identified TCP listed, or considered eligible for the NRHP (RMP Action TC 2.2.2). Notice to lessee applies to entire parcel.</p> <p><b>NTL:</b> Based on Native American consultation, modifications to no surface occupancy near TCPs or TCP settings may produce recommendations for larger or smaller areas subject to no surface occupancy (RMP Action MR 4.1.3.1). Notice to lessee applies to entire parcel.</p> <p><b>NTL:</b> For development and production phases, surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the Native American consultation process. Notice to lessee applies to entire parcel.</p>

Source Document	Type	Description	Comments
		<b>NV-WD-CRNA-02 (CONTINUED)</b>	<p><b>NTL:</b> The Winnemucca District Resource Management Plan allows for the development of stipulations, use restrictions, mitigation measures and other management actions to protect traditional use areas and practices (RMP Action TC 2.4). Notice to lessee applies to entire parcel.</p> <p><b>NTL:</b> Most of the parcel has not been inventoried for cultural resources. Potential NRHP eligible sites may exist in the parcel and would be subject to this stipulation. Notice to lessee applies to entire parcel.</p>
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	<b>NTL</b>	<p><b>NV-WD-CRNA-01 Protection of Cultural Sites Resources and Consultation with Native American Tribes and the State Historic Preservation Office</b></p> <p>The authorized officer of the BLM will consult with the appropriate Native American Tribes and State Historic Preservation Officers regarding cultural resources per Section 106 of the National Historical Preservation Act and its implementation through the protocol between the BLM Nevada State Director and the Nevada State Historic Preservation Office. The presence of National Register eligible, listed, and</p> <p><b>NV-WD-CRNA-01 (CONTINUED)</b></p>	Notice to lessee applies to entire parcel.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Source Document	Type	Description	Comments
		unevaluated sites will be determined on the basis of a literature review of recorded sites and properties in the proposed lease area. A protective buffer around a site within the lease area, if appropriate, may be applied. Additional 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.	

Realty & Lands  
Reviewer: Debbie Dunham  
Date: July 5, 2016

Source Document	Type	Description	Comments
LR 2000 (Geo Report with Customer)	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.	Nev-001018 LA Dept of Water and Power – Transmission Line N-89488 Ormat Nevada- Road N-65524 – WAPA – Transmission Line (Irrigation Project)



Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Paleontology  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NTL	<p><b>NV-WD-PALEO-03</b>  <b>Protection of Potential Fossil Yield Classification (PFYC) 4 and 5: High/Very High Potential</b>  This area has high and very high potential for paleontological resources. This land is underlain by geologic units that have been documented to contain a high occurrence of fossils, which may consist of scientifically significant vertebrate fossils. A field survey by a qualified paleontologist, and at the lessee's expense, will be required prior to surface disturbing activities. If significant fossils of scientific importance are discovered they will require avoidance or data recovery prior to their disturbance. On site monitoring may be necessary during construction activities.</p>	<p>Notice to lessee applies to the following lands:</p> <p>T.0240N, R.0240E, 21 MDM, NV Sec. 035 SWSE</p> <p>T.0230N, R.0240E, 21 MDM, NV Sec. 006 NW, NWNE</p>
<i>Record of Decision and Resource</i>	NTL	<p><b>NV-WD-PALEO-02</b>  <b>Protection of Potential Fossil Yield Classification (PFYC) 3: Moderate Potential</b> This area has moderate</p>	<p>Notice to lessee applies to the following lands:</p> <p>T.0230N, R.0240E, 21 MDM, NV Sec. 002 SW, SWNW, SENW;</p>

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Source Document	Type	Description	Comments
<i>Management Plan for the Winnemucca District Planning Area, May 2015</i>		potential for vertebrate paleontological resources. Inventory and/or on-site monitoring during disturbance or spot checking may be required. If fossils are discovered, avoidance or data recovery will be required prior to their disturbance if they are deemed to be of scientific importance.	Sec. 010 ALL; Sec. 012 NE, SE, SWSW, SESW  T.0230N, R.0250E, 21 MDM, NV Sec. 006 Lots 9-11, NESW, SESW

Riparian  
Reviewer: Robert Gibson  
Date: July 11, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015	CSU	<b>NV-WD-RIPAR-01</b>  Controlled surface use will be applied within 500 feet of riparian or wetland vegetation to protect the values and functions of these areas. Specific measures required will be based on the	No riparian or wetland vegetation on this lease based on inspection of aerial photographs.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		nature, extent, and value of the area potentially affected.	

Water  
Reviewer: Robert Gibson  
Date: July 11, 2016

Source Document	Type	Description	Comments
WDRMP 2015	NSO	<b>NV-WD-WATER-04</b>  <b>Protection of Municipal Well Head Protection Zones.</b> Some, or all, of this lease parcel is within a recognized municipal well head protection zone. No surface occupancy within recognized well head protection zones or within 1,000 feet of a municipal well head.	No recognized well head protection zones located on the lease.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Wild Horse & Burro  
Reviewer: Samantha Gooch  
Date: July 5, 2016

NOTE			
Source Document	Type	Description	Comments
WDRMP 2015	NTL	<b>NV-WD-WH&amp;B-01</b> (WD RMP, Actions D- 4.1) Wild horse or burro populations are known to use some or all of the proposed lease area. If proposed fluid mineral activities are to occur in horse management areas (HMA) it may be necessary to avoid or develop mitigation measures to reduce adverse impacts to horses and/or burros. These measures would be designed in a manner that does not hinder the wild and free-roaming behavior of the horses and burros and may include, but are not limited to, providing alternative water sources for horses of equal quality and quantity. Additional specific measures to protect horses and burros may be developed during review of proposals.	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

T&E, SSS, Wildlife  
Reviewer: Josef Porter  
Date: June 30, 2016

Source Document	Type	Description	Comments
WD RMP 2015	Lease Notice	<p><b>Appendix L, NV-WD-SSS-01,</b> (WD RMP CA-SSS 1.1, CA-1.2)</p> <p>The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. 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. 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. No surface disturbance would be authorized before a special status species inventory of the project area is completed by a qualified biologist or botanist. In the event a</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Source Document	Type	Description	Comments
		special status species inventory cannot be conducted, a determination will be made by a BLM biologist or botanist as to the likelihood of suitable habitat for the special status species in the project area and if such habitat is likely, it will be assumed the special status species is present as well. 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.	
WD RMP 2015	CSU	<p><b>Appendix L, NV-WDO-SSS-02</b> (WD RMP Action D-SSS 1.1)</p> <p>Controlled surface use of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended) would be applied if fluid mineral activities would be likely to adversely modify the habitat for the short term. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.</p>	
WD RMP 2015	NSO	<p><b>App. L, NV-WD-SSS-03</b> (WD RMP, Action D-SSS 1.1)</p> <p>No surface occupancy of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended)</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Source Document	Type	Description	Comments
		would be applied if fluid mineral activities would be likely to adversely modify the habitat for the long term. For listed or proposed species without designated habitat, no surface occupancy would be implemented to the extent necessary to avoid jeopardy.	
WD RMP 2015	CSU	<p><b>App. L, NV-WDO-SSS-05</b></p> <p>For BLM-designated sensitive species (e.g. sage-grouse and others), a lease stipulation for controlled surface use, would be applied to defined avoidance areas where fluid mineral activities would be likely to adversely impact the species or modify the habitat and other existing measures are inadequate to meet agency management objectives. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.</p>	<p>Based on habitat characteristics, the lessee may be required to conduct surveys for sensitive species that may potentially utilize the area.</p> <p>Western Snowy Plover Sensitive plant surveys will be required.</p>
WD RMP 2015	TL	<p><b>App. L, NV-WDO-SSS-06</b> (WD RMP, Action CA-SSS 1.7)</p> <p>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. These species will be managed in accordance with FLPMA, the Bald and Golden Eagle Protection Act (BGEPA) and the Migratory Bird Treaty Action (MBTA).</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

<b>General Wildlife/ GRSG</b>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	Lease Notice	<p><b>App. L, NV-WD-WILD-04</b> (WD RMP Action FW 4.1)</p> <p>Ground disturbing activities during the migratory bird-nesting season (approximately March 1 through August 31 (as dependent on species) 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 of time, appropriate inventories for migratory birds shall be conducted prior to site development, as described below. This survey would identify either breeding adult birds or nest sites within the areas to be disturbed. If active nests are present, the proponent will coordinate with the BLM to develop appropriate protection measures for these sites, which may include avoidance, construction constraints, and/or establish buffers.</p> <p>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 one (1) day prior to proposed disturbance activities. The applicant will notify the BLM biologist no less than five (5) work days prior to a survey being</p>	



Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		conducted. The surveys will be performed at the applicant's expense by a biologist acceptable to the BLM. Survey methodology will follow scientifically acceptable 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).	
WD RMP 2015	NSO	<b>NV-WDO-ARMPA (App. B)</b> <b>NVCA GRSG ARMPA</b> <b>No Surface Occupancy for sage grouse leks.</b> No surface occupancy within 5 km (3.1 miles) of known leks at all times.	
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)</b>  <b>Timing limitations on known or potential sage grouse habitat.</b> <i>Prior to entry on any lease areas which include known or potential habitat, the lessee (operator) shall contact the appropriate BLM Field Office to discuss any proposed activities.</i> Seasonal restrictions will be applied during the period specified below to manage discretionary surface-disturbing activities and uses on public lands to prevent disturbance to GRSG during seasonal life-cycle	Portions of the parcel (T24N R24E Sec36) are located within OHMA, but are not within any known seasonal habitat (i.e. wintering, nesting, summer) or PMU. In OHMAs, authorized or permitted activities are implemented adhering to required design features (RDFs)

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<p>periods:</p> <ol style="list-style-type: none"> <li>1. In breeding habitat within 4 miles of active/pending leks from March 1-June 30 <ol style="list-style-type: none"> <li>a. Lek-March 1-May 15</li> <li>b. Lek hourly restrictions 6 pm to 9 am</li> <li>c. Nesting-April 1-June 30</li> </ol> </li> <li>2. Brood-rearing habitat from May 15 to September 15 <ol style="list-style-type: none"> <li>a. Early-May 15-June 15</li> <li>b. Late-June 15-September 15</li> </ol> </li> <li>3. Winter habitat from November 1-February 28</li> </ol>	
WD RMP 2015	NSO	<p><b>NV-WDO-MD-SSS-Action 5.2.1 (RMP Objective SSS 5)</b></p> <p>Manage the following PMUs as priority habitat management areas (PHMA) to achieve desired sage-grouse and other sensitive species populations and protect habitat conditions as no surface disturbance or no surface occupancy applicable to the following uses; saleable minerals (Government use subject to the criteria listed below), fluid minerals, solid mineral leasing (energy and non-energy) and rights of way.</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<ul style="list-style-type: none"> <li>• North Massacre (adjacent to Black Rock PMU)</li> <li>• Black Rock</li> <li>• Pine Forest</li> <li>• Lone Willow</li> <li>• Santa Rosa</li> </ul>	
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)-2 CSU (2002)</b>  No exploration during nesting/brood rearing period (April 1-September 15) in identified nesting habitat.	
WD RMP 2015	TL	<b>NV-WDO-MD SSS-02(E)-3</b>  No exploration during winter (November 1-February 28) in identified winter habitats.	

<b><u>Wildlife</u></b>			
<b><i>Big Horn Sheep &amp; Big Game</i></b>			
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	TL/NSO	<b>App. L, NV-WD-SSS-1.2 (WD RMP, Objective D-FW-1 and Action FW 1.2)</b>	<b>Potential</b> Bighorn Sheep range.  Upon site specific analysis, controlled surface use, timing

<b><u>Wildlife</u></b>			
<b><i>Big Horn Sheep &amp; Big Game</i></b>			
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<p>Where standard lease terms and permit-level decisions are deemed insufficient to protect sensitive resources, but where an NSO is deemed overly restrictive, the BLM would apply seasonal or time limited stipulations to leases as appropriate by wildlife species to protect habitat, provide continuity of migration corridors, and protect seasonal use areas.</p> <p>Bighorn Sheep: Objective: Protect Bighorn Sheep from disturbance during lambing, NSO within a ¼ mile radius of designated lambing habitat</p>	<p>limitations, or mitigation measures may be applied to address areas of crucial deer, antelope, and big horn sheep habitat.</p>
WD RMP 2015	TL	<p><b>Appendix L, NV-WDO-WILD-03, Objective D-FW-1, WD-FW 1.2</b></p> <p>This stipulation will be applied to protect the continuity of migration corridors and important habitat, as recognized and designated by BLM and NDOW. These timing limitations will be applied within the designated habitat to protect the values and functions of these areas. Specific locations and the times applicable will be based on the nature, extent, and value of the area potentially affected.</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Recreation  
Reviewer: Peggy McGukian  
Date: July 25, 2016

Source Document	Type	Description	Comments
WDRMP 2015	NSO	<b>NV-WDO-REC-01</b>  No surface occupancy on developed recreational facilities, special-use permit recreation sites (e.g., ski resorts and camps), and areas with significant recreational use with which geothermal development is deemed incompatible, excluding direct use applications.	There are no developed recreational facilities on the parcel.  There have been some Off-road races adjacent to the parcel. However there has not been a special use permit issued recently.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

Soils  
Reviewer: Rob Burton  
Date: July 6, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	NSO	<p><b>Stipulation</b> <b>No Surface Occupancy</b></p> <p>No surface occupancy will be applied to slopes greater than 50% (as mapped by the USGS 1:24,000 scale topographic maps or as determined by a BLM evaluations of the area).</p> <p>Exception The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location or a site specific evaluation determines that the slope would not result in mass slope failure or accelerated erosion and the operator would be able to me BLM's reclamation standards.</p> <p>Modification</p>	

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	CSU	<p>The authorized officer may modify the area subject to the stipulation based upon a BLM evaluation of the area. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p> <p>Waiver The restriction may be waived if it is determined that the described lands do not include lands with slopes greater than 50%. This determination shall be based upon USGS mapping and a BLM evaluation of the area.</p> <p><b>Stipulation</b> <b>Controlled Surface Use (CSU)</b></p> <p>Controlled Surface Use will be applied to lands with a severe soil wind or water erosion hazard rating (as designed by</p>	<p><i>*Areas identified as having high potential for wind erosion can be evaluated by the BLM on a case-by-case basis for establishing possible mitigation measures.</i></p>

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>NRCS soil survey data when available). Prior to surface disturbance on soils with a severe erosion hazard rating, a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Geothermal Drilling/Application for Permit to Drill – Plan of Operations. The operator may not initiate surface disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions. The plan must demonstrate to the Authorized Officer's satisfaction how the operator will meet the following performance standards:</p> <ul style="list-style-type: none"> <li>• Soil stability is maintained preventing slope failure and wind or water erosion.</li> <li>• The site will be stable with no evidence of accelerated erosion features.</li> <li>• The rate of soil erosion will be controlled to maintain or improve soil quality and sustainability. The disturbed soils shall</li> </ul>	



<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>have characteristics that approximate the reference site with regard to quantitative and qualitative soil erosion indicators described in H-7100-1 Soil Inventory, Monitoring, and Management Handbook.</p> <ul style="list-style-type: none"> <li>• Sufficient topsoil is maintained for ensuring successful final reclamation. At locations where interim reclamation will be completed, this will be accomplished by re-spreading the topsoil over the areas of interim reclamation.</li> <li>• The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation.</li> </ul> <p>The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>sites or increased national or state performance standards.</p> <p>Exception The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location, or a soil survey determines that the soil properties do not meet the severe erosion hazard criteria so that the proposed action would not result in a failure to meet the performance standards above.</p> <p>Modification The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-004 Worksheet

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>Waiver</p> <p>The restriction may be waived if it is determined that the described lands do not include soils with severe erosion hazard. This determination shall be based upon NRCS mapping and BLM evaluation of the area.</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Cultural, NAC, Historic Trails  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NSO/NTL	<b>NV-WD-CRNA-02</b> <b>No Surface Occupancy in National Register of Historic Places sites.</b> No surface occupancy (NSO) in areas containing NRHP eligible, listed and unevaluated sites and TCPs. To accomplish this, any quarter-quarter-section (10-acre parcel) within or intersected by the site would be subject to NSO. For development and production phases, surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the National Historic Preservation Act (NHPA) requirements and Native American consultation process. Additional lands outside the designated boundaries of sites may be added to the NSO restriction to the extent necessary to protect values where the setting and integrity is critical to their designation or eligibility.	<b>NTL:</b> Most of the parcel has not been inventoried for cultural resources. Potential NRHP eligible sites may exist in the parcel and would be subject to this stipulation. Notice to lessee applies to entire parcel.  <b>NTL:</b> For development and production phases, surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the Native American consultation process. Notice to lessee applies to entire parcel.  <b>NTL:</b> The Winnemucca District Resource Management Plan allows for the development of stipulations, use restrictions, mitigation measures and other management actions to protect traditional use areas and practices (RMP Action TC 2.4). Notice to lessee applies to entire parcel.

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NTL	<p><b>NV-WD-CRNA-01</b>  <b>Protection of Cultural Sites Resources and Consultation with Native American Tribes and the State Historic Preservation Office</b></p> <p>The authorized officer of the BLM will consult with the appropriate Native American Tribes and State Historic Preservation Officers regarding cultural resources per Section 106 of the National Historical Preservation Act and its implementation through the protocol between the BLM Nevada State Director and the Nevada State Historic Preservation Office. The presence of National Register eligible, listed, and unevaluated sites will be determined on the basis of a literature review of recorded sites and properties in the proposed lease area. A protective buffer around a site within the lease area, if appropriate, may be applied. Additional 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.</p>	Notice to lessee applies to entire parcel.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Source Document	Type	Description	Comments
		<i>Authority/Supporting Documentation:</i>  <u>Description of Lands</u> Entire Parcel	

Lands & Realty  
Reviewer: Debbie Dunham  
Date: July 5, 2016

Source Document	Type	Description	Comments
LR 2000 (Geo Report with Customer)	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.	Nev-001018 LA Dept of Water and Power – Transmission Line N-65524 – WAPA – Transmission Line (Irrigation Project)

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Paleontology  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NTL	<p><b>NV-WD-PALEO-02</b>  <b>Protection of Potential Fossil Yield Classification (PFYC) 3: Moderate Potential</b></p> <p>This area has moderate potential for vertebrate paleontological resources. Inventory and/or on-site monitoring during disturbance or spot checking may be required. If fossils are discovered, avoidance or data recovery will be required prior to their disturbance if they are deemed to be of scientific importance.</p>	<p>Notice to lessee applies to the following lands:</p> <p>T.0230N, R.0240E, 21 MDM, NV  Sec. 014 SENW, NENW, NWNW, NE, SW, SE;  Sec. 024 NW, NE, SW, NWSE, SWSE, SESE</p> <p>T.0230N, R.0250E, 21 MDM, NV  Sec. 018 NW, NWSW, SWSW</p>

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Riparian  
Reviewer: Robert Gibson  
Date: July 11, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015	CSU	<b>NV-WD-RIPAR-01</b>  Controlled surface use will be applied within 500 feet of riparian or wetland vegetation to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.	No riparian or wetland vegetation on this lease based on inspection of aerial photographs.



Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Water  
Reviewer: Robert Gibson  
Date: July 11, 2016

Source Document	Type	Description	Comments
WDRMP 2015	NSO	<b>NV-WD-WATER-04</b>  <b>Protection of Municipal Well Head Protection Zones.</b> Some, or all, of this lease parcel is within a recognized municipal well head protection zone. No surface occupancy within recognized well head protection zones or within 1,000 feet of a municipal well head.	No recognized well head protection zones located on the lease.

Wild Horse & Burro  
Reviewer: Samantha Gooch  
Date: July 5, 2016

NOTE			
Source Document	Type	Description	Comments
WDRMP 2015	NTL	<b>NV-WD-WH&amp;B-01</b> (WD RMP, Actions D- 4.1) Wild horse or burro populations are known to use some or all of the proposed lease area. If proposed fluid mineral activities are to occur in horse management areas (HMA) it may be	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

NOTE			
Source Document	Type	Description	Comments
		necessary to avoid or develop mitigation measures to reduce adverse impacts to horses and/or burros. These measures would be designed in a manner that does not hinder the wild and free-roaming behavior of the horses and burros and may include, but are not limited to, providing alternative water sources for horses of equal quality and quantity. Additional specific measures to protect horses and burros may be developed during review of proposals.	

T&E, SSS, Wildlife  
Reviewer: Josef Porter  
Date: June 30, 2016

Source Document	Type	Description	Comments
WD RMP 2015	Lease Notice	<p><b>Appendix L, NV-WD-SSS-01,</b> (WD RMP CA-SSS 1.1, CA-1.2)</p> <p>The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. All plants and any member of the animal kingdom, including without limitation</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Source Document	Type	Description	Comments
		<p>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. 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. No surface disturbance would be authorized before a special status species inventory of the project area is completed by a qualified biologist or botanist. In the event a special status species inventory cannot be conducted, a determination will be made by a BLM biologist or botanist as to the likelihood of suitable habitat for the special status species in the project area and if such habitat is likely, it will be assumed the special status species is present as well. 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</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Source Document	Type	Description	Comments
		consultation.	
WD RMP 2015	CSU	<p><b>Appendix L, NV-WDO-SSS-02</b> (WD RMP Action D-SSS 1.1)</p> <p>Controlled surface use of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended) would be applied if fluid mineral activities would be likely to adversely modify the habitat for the short term. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.</p>	
WD RMP 2015	NSO	<p><b>App. L, NV-WD-SSS-03</b> (WD RMP, Action D-SSS 1.1)</p> <p>No surface occupancy of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended) would be applied if fluid mineral activities would be likely to adversely modify the habitat for the long term. For listed or proposed species without designated habitat, no surface occupancy would be implemented to the extent necessary to avoid jeopardy.</p>	
WD RMP 2015	CSU	<p><b>App. L, NV-WDO-SSS-05</b></p> <p>For BLM-designated sensitive species (e.g. sage-grouse and others), a lease stipulation for controlled surface use, would be applied to defined avoidance areas where fluid mineral activities would be likely to adversely impact the</p>	<p>Based on habitat characteristics, the lessee may be required to conduct surveys for sensitive species that may potentially utilize the area.</p> <p>Western Snowy Plover Sensitive plant surveys will be required.</p>

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Source Document	Type	Description	Comments
		species or modify the habitat and other existing measures are inadequate to meet agency management objectives. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.	
WD RMP 2015	TL	<b>App. L, NV-WDO-SSS-06</b> (WD RMP, Action CA-SSS 1.7)  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. These species will be managed in accordance with FLPMA, the Bald and Golden Eagle Protection Act (BGEPA) and the Migratory Bird Treaty Action (MBTA).	

<b>General Wildlife/GRSG</b>	<b>Prelude to following stipulations</b>		
Source Document	Type	Description	Comments
WD RMP 2015	Lease Notice	<b>App. L, NV-WD-WILD-04</b> (WD RMP Action FW 4.1)  Ground disturbing activities during the migratory bird-nesting season (approximately March 1 through August 31 (as dependent on species) shall not be conducted in order to avoid potential violation of the Migratory Bird	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

<b>General Wildlife/ GRSG</b>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<p>Act of 1918. Should ground-disturbing activities be necessary during this period of time, appropriate inventories for migratory birds shall be conducted prior to site development, as described below. This survey would identify either breeding adult birds or nest sites within the areas to be disturbed. If active nests are present, the proponent will coordinate with the BLM to develop appropriate protection measures for these sites, which may include avoidance, construction constraints, and/or establish buffers.</p> <p>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 one (1) day 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 scientifically acceptable 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</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		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).	
WD RMP 2015	NSO	<b>NV-WDO-ARMPA (App. B)</b> <b>NVCA GRSG ARMPA</b> <b>No Surface Occupancy for sage grouse leks.</b> No surface occupancy within 5 km (3.1 miles) of known leks at all times.	
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)</b>  <b>Timing limitations on known or potential sage grouse habitat.</b> <i>Prior to entry on any lease areas which include known or potential habitat, the lessee (operator) shall contact the appropriate BLM Field Office to discuss any proposed activities.</i> Seasonal restrictions will be applied during the period specified below to manage discretionary surface-disturbing activities and uses on public lands to prevent disturbance to GRSG during seasonal life-cycle periods: <ol style="list-style-type: none"> <li>1. In breeding habitat within 4 miles of active/pending leks from March 1-June 30 <ol style="list-style-type: none"> <li>a. Lek-March 1-May 15</li> <li>b. Lek hourly restrictions 6 pm to 9 am</li> <li>c. Nesting-April 1-June 30</li> </ol> </li> </ol>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		2. Brood-rearing habitat from May 15 to September 15 a. Early-May 15-June 15 b. Late-June 15-September 15 3. Winter habitat from November 1-February 28	
WD RMP 2015	NSO	<b>NV-WDO-MD-SSS-Action 5.2.1 (RMP Objective SSS 5)</b>  Manage the following PMUs as priority habitat management areas (PHMA) to achieve desired sage-grouse and other sensitive species populations and protect habitat conditions as no surface disturbance or no surface occupancy applicable to the following uses; saleable minerals (Government use subject to the criteria listed below), fluid minerals, solid mineral leasing (energy and non-energy) and rights of way. <ul style="list-style-type: none"> <li>• North Massacre (adjacent to Black Rock PMU)</li> <li>• Black Rock</li> <li>• Pine Forest</li> <li>• Lone Willow</li> <li>• Santa Rosa</li> </ul>	



Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

<b>General Wildlife/ GRSG</b>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)-2 CSU (2002)</b>  No exploration during nesting/brood rearing period (April 1-September 15) in identified nesting habitat.	
WD RMP 2015	TL	<b>NV-WDO-MD SSS-02(E)-3</b>  No exploration during winter (November 1-February 28) in identified winter habitats.	

<b><u>Wildlife</u></b>			
<b><i>Big Horn Sheep &amp; Big Game</i></b>			
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	TL/NSO	<b>App. L, NV-WD-SSS-1.2 (WD RMP, Objective D-FW-1 and Action FW 1.2)</b>  Where standard lease terms and permit- level decisions are deemed insufficient to protect sensitive resources, but where an	<b>Potential</b> Bighorn Sheep range.  Upon site specific analysis, controlled surface use, timing limitations, or mitigation measures may be applied to address areas of crucial deer, antelope, and big horn sheep habitat.

<b><u>Wildlife</u></b>			
<b><i>Big Horn Sheep &amp; Big Game</i></b>			
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<p>NSO is deemed overly restrictive, the BLM would apply seasonal or time limited stipulations to leases as appropriate by wildlife species to protect habitat, provide continuity of migration corridors, and protect seasonal use areas.</p> <p>Bighorn Sheep: Objective: Protect Bighorn Sheep from disturbance during lambing, NSO within a ¼ mile radius of designated lambing habitat</p>	
WD RMP 2015	TL	<p><b>Appendix L, NV-WDO-WILD-03, Objective D-FW-1, WD-FW 1.2</b></p> <p>This stipulation will be applied to protect the continuity of migration corridors and important habitat, as recognized and designated by BLM and NDOW. These timing limitations will be applied within the designated habitat to protect the values and functions of these areas. Specific locations and the times applicable will be based on the nature, extent, and value of the area potentially affected.</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Recreation  
Reviewer: Peggy McGukian  
Date: July 25, 2016

Source Document	Type	Description	Comments
WDRMP 2015	NSO	<b>NV-WDO-REC-01</b>  No surface occupancy on developed recreational facilities, special-use permit recreation sites (e.g., ski resorts and camps), and areas with significant recreational use with which geothermal development is deemed incompatible, excluding direct use applications.	There are no developed recreational facilities on the parcel.  There have been some Off-road races adjacent to the parcel. However there has not been a special use permit issued recently.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

Soils  
Reviewer: Rob Burton  
Date: July 6, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	NSO	<p><b>Stipulation</b> <b>No Surface Occupancy</b></p> <p>No surface occupancy will be applied to slopes greater than 50% (as mapped by the USGS 1:24,000 scale topographic maps or as determined by a BLM evaluations of the area).</p> <p>Exception The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location or a site specific evaluation determines that the slope would not result in mass slope failure or accelerated erosion and the operator would be able to me BLM's reclamation standards.</p> <p>Modification</p>	

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	CSU	<p>The authorized officer may modify the area subject to the stipulation based upon a BLM evaluation of the area. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p> <p>Waiver The restriction may be waived if it is determined that the described lands do not include lands with slopes greater than 50%. This determination shall be based upon USGS mapping and a BLM evaluation of the area.</p> <p><b>Stipulation</b> <b>Controlled Surface Use (CSU)</b></p> <p>Controlled Surface Use will be applied to lands with a severe soil wind or water erosion hazard rating (as designed by</p>	<p><i>*Areas identified as having high potential for wind erosion can be evaluated by the BLM on a case-by-case basis for establishing possible mitigation measures.</i></p>

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>NRCS soil survey data when available). Prior to surface disturbance on soils with a severe erosion hazard rating, a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Geothermal Drilling/Application for Permit to Drill – Plan of Operations. The operator may not initiate surface disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions. The plan must demonstrate to the Authorized Officer's satisfaction how the operator will meet the following performance standards:</p> <ul style="list-style-type: none"> <li>• Soil stability is maintained preventing slope failure and wind or water erosion.</li> <li>• The site will be stable with no evidence of accelerated erosion features.</li> <li>• The rate of soil erosion will be controlled to maintain or improve soil quality and sustainability. The disturbed soils shall</li> </ul>	

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>have characteristics that approximate the reference site with regard to quantitative and qualitative soil erosion indicators described in H-7100-1 Soil Inventory, Monitoring, and Management Handbook.</p> <ul style="list-style-type: none"> <li>• Sufficient topsoil is maintained for ensuring successful final reclamation. At locations where interim reclamation will be completed, this will be accomplished by re-spreading the topsoil over the areas of interim reclamation.</li> <li>• The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation.</li> </ul> <p>The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>sites or increased national or state performance standards.</p> <p>Exception The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location, or a soil survey determines that the soil properties do not meet the severe erosion hazard criteria so that the proposed action would not result in a failure to meet the performance standards above.</p> <p>Modification The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p>	



Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-005 Worksheet

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>Waiver</p> <p>The restriction may be waived if it is determined that the described lands do not include soils with severe erosion hazard. This determination shall be based upon NRCS mapping and BLM evaluation of the area.</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-006 Worksheet

Cultural, NAC, Historic Trails  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NTL	<b>NV-WD-CRNA-02</b> <b>No Surface Occupancy in National Register of Historic Places sites.</b> No surface occupancy (NSO) in areas containing NRHP eligible, listed and unevaluated sites and TCPs. To accomplish this, any quarter-quarter section (10-acre parcel) within or intersected by the site would be subject to NSO. For development and production phases, surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the National Historic Preservation Act (NHPA) requirements and Native American consultation process. Additional lands outside the designated boundaries of sites may be added to the NSO restriction to the extent necessary to protect values where the setting and integrity is critical to their designation or eligibility.	<p><b>NTL:</b> Most of the parcel has not been inventoried for cultural resources. Potential NRHP eligible sites may exist in the parcel and would be subject to this stipulation. Notice to lessee applies to entire parcel.</p> <p><b>NTL:</b> For development and production phases, surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the Native American consultation process. Notice to lessee applies to entire parcel.</p> <p><b>NTL:</b> The Winnemucca District Resource Management Plan allows for the development of stipulations, use restrictions, mitigation measures and other management actions to protect traditional use areas and practices (RMP Action TC 2.4). Notice to lessee applies to entire parcel.</p>

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-006 Worksheet

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NTL	<p><b>NV-WD-CRNA-01</b>  <b>Protection of Cultural Sites Resources and Consultation with Native American Tribes and the State Historic Preservation Office</b></p> <p>The authorized officer of the BLM will consult with the appropriate Native American Tribes and State Historic Preservation Officers regarding cultural resources per Section 106 of the National Historical Preservation Act and its implementation through the protocol between the BLM Nevada State Director and the Nevada State Historic Preservation Office. The presence of National Register eligible, listed, and unevaluated sites will be determined on the basis of a literature review of recorded sites and properties in the proposed lease area. A protective buffer around a site within the lease area, if appropriate, may be applied. Additional 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.</p>	Notice to lessee applies to entire parcel.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-006 Worksheet

Lands & Realty  
Reviewer: Debbie Dunham  
Date: July 5, 2016

Source Document	Type	Description	Comments
LR 2000 (Geo Report with Customer)	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.	N-89488 Ormat Nevada- Road

Paleontology  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May</i>	NTL	<p><b>NV-WD-PALEO-01</b>  <b>Protection of Potential Fossil Yield Classification (PFYC) 1 and 2: Very Low/Low Potential</b></p> <p>This area has low potential for vertebrate paleontological resources. This area may contain vertebrate paleontological resources. In the event that previously undiscovered paleontological resources</p>	<p>Notice to lessee applies to the following lands:</p> <p>T.0240N, R.0240E, 21 MDM, NV Sec. 035 SENW</p> <p>T.0240N, R.0250E, 21 MDM, NV Sec. 032 ALL</p>

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Source Document	Type	Description	Comments
2015		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.	

Riparian  
Reviewer: Robert Gibson  
Date: July 11, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015	CSU	<b>NV-WD-RIPAR-01</b>  Controlled surface use will be applied within 500 feet of riparian or wetland	No riparian or wetland vegetation on this lease based on inspection of aerial photographs.

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<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		vegetation to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.	

Water  
Reviewer: Robert Gibson  
Date: July 11, 2016

Source Document	Type	Description	Comments
WDRMP 2015	NSO	<b>NV-WD-WATER-04</b>  <b>Protection of Municipal Well Head Protection Zones.</b> Some, or all, of this lease parcel is within a recognized municipal well head protection zone. No surface occupancy within recognized well head protection zones or within 1,000 feet of a municipal well head.	No recognized well head protection zones located on the lease.

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Wild Horse and Burro  
Reviewer: Samantha Gooch  
Date: July 5, 2016

NOTE			
Source Document	Type	Description	Comments
WDRMP 2015	NTL	<b>NV-WD-WH&amp;B-01</b> (WD RMP, Actions D- 4.1) Wild horse or burro populations are known to use some or all of the proposed lease area. If proposed fluid mineral activities are to occur in horse management areas (HMA) it may be necessary to avoid or develop mitigation measures to reduce adverse impacts to horses and/or burros. These measures would be designed in a manner that does not hinder the wild and free-roaming behavior of the horses and burros and may include, but are not limited to, providing alternative water sources for horses of equal quality and quantity. Additional specific measures to protect horses and burros may be developed during review of proposals.	

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T&E, SSS, Wildlife  
Reviewer: Josef Porter  
Date: 30 June, 2016

Source Document	Type	Description	Comments
WD RMP 2015	Lease Notice	<p><b>Appendix L, NV-WD-SSS-01,</b> (WD RMP CA-SSS 1.1, CA-1.2)</p> <p>The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. 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. 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. No surface disturbance would be authorized before a special status species inventory of the project area is completed by a qualified biologist or botanist. In the event a</p>	



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Source Document	Type	Description	Comments
		special status species inventory cannot be conducted, a determination will be made by a BLM biologist or botanist as to the likelihood of suitable habitat for the special status species in the project area and if such habitat is likely, it will be assumed the special status species is present as well. 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.	
WD RMP 2015	CSU	<p><b>Appendix L, NV-WDO-SSS-02</b> (WD RMP Action D-SSS 1.1)</p> <p>Controlled surface use of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended) would be applied if fluid mineral activities would be likely to adversely modify the habitat for the short term. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.</p>	
WD RMP 2015	NSO	<p><b>App. L, NV-WD-SSS-03</b> (WD RMP, Action D-SSS 1.1)</p> <p>No surface occupancy of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended)</p>	

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Source Document	Type	Description	Comments
		would be applied if fluid mineral activities would be likely to adversely modify the habitat for the long term. For listed or proposed species without designated habitat, no surface occupancy would be implemented to the extent necessary to avoid jeopardy.	
WD RMP 2015	CSU	<p><b>App. L, NV-WDO-SSS-05</b></p> <p>For BLM-designated sensitive species (e.g. sage-grouse and others), a lease stipulation for controlled surface use, would be applied to defined avoidance areas where fluid mineral activities would be likely to adversely impact the species or modify the habitat and other existing measures are inadequate to meet agency management objectives. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.</p>	<p>Based on habitat characteristics, the lessee may be required to conduct surveys for sensitive species that may potentially utilize the area.</p> <p>Western Snowy Plover Sensitive plant surveys will be required.</p>
WD RMP 2015	TL	<p><b>App. L, NV-WDO-SSS-06</b> (WD RMP, Action CA-SSS 1.7)</p> <p>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. These species will be managed in accordance with FLPMA, the Bald and Golden Eagle Protection Act (BGEPA) and the Migratory Bird Treaty Action (MBTA).</p>	

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<b>General Wildlife/ GRSG</b>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	Lease Notice	<p><b>App. L, NV-WD-WILD-04</b> (WD RMP Action FW 4.1)</p> <p>Ground disturbing activities during the migratory bird-nesting season (approximately March 1 through August 31 (as dependent on species) 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 of time, appropriate inventories for migratory birds shall be conducted prior to site development, as described below. This survey would identify either breeding adult birds or nest sites within the areas to be disturbed. If active nests are present, the proponent will coordinate with the BLM to develop appropriate protection measures for these sites, which may include avoidance, construction constraints, and/or establish buffers.</p> <p>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 one (1) day prior to proposed disturbance activities. The applicant will notify the BLM biologist no less than five (5) work days prior to a survey being</p>	

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<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		conducted. The surveys will be performed at the applicant's expense by a biologist acceptable to the BLM. Survey methodology will follow scientifically acceptable 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).	
WD RMP 2015	NSO	<b>NV-WDO-ARMPA (App. B)</b> <b>NVCA GRSG ARMPA</b> <b>No Surface Occupancy for sage grouse leks.</b> No surface occupancy within 5 km (3.1 miles) of known leks at all times.	
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)</b>  <b>Timing limitations on known or potential sage grouse habitat.</b> <i>Prior to entry on any lease areas which include known or potential habitat, the lessee (operator) shall contact the appropriate BLM Field Office to discuss any proposed activities.</i> Seasonal restrictions will be applied during the period specified below to manage discretionary surface-disturbing activities and uses on public lands to prevent disturbance to GRSG during seasonal life-cycle	Portions of the parcel (T24N R24E Sec35 and T24N R25E Sec32) are located within OHMA, but are not within any known seasonal habitat (i.e. wintering, nesting, summer) or PMU. In OHMAs, authorized or permitted activities are implemented adhering to required design features (RDFs)

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<i><b>General Wildlife/ GRSG</b></i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<p>periods:</p> <ol style="list-style-type: none"> <li>1. In breeding habitat within 4 miles of active/pending leks from March 1-June 30               <ol style="list-style-type: none"> <li>a. Lek-March 1-May 15</li> <li>b. Lek hourly restrictions 6 pm to 9 am</li> <li>c. Nesting-April 1-June 30</li> </ol> </li> <li>2. Brood-rearing habitat from May 15 to September 15               <ol style="list-style-type: none"> <li>a. Early-May 15-June 15</li> <li>b. Late-June 15-September 15</li> </ol> </li> <li>3. Winter habitat from November 1-February 28</li> </ol>	
WD RMP 2015	NSO	<p><b>NV-WDO-MD-SSS-Action 5.2.1 (RMP Objective SSS 5)</b></p> <p>Manage the following PMUs as priority habitat management areas (PHMA) to achieve desired sage-grouse and other sensitive species populations and protect habitat conditions as no surface disturbance or no surface occupancy applicable to the following uses; saleable minerals (Government use subject to the criteria listed below), fluid minerals, solid mineral leasing (energy and non-energy) and rights of way.</p>	

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<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<ul style="list-style-type: none"> <li>• North Massacre (adjacent to Black Rock PMU)</li> <li>• Black Rock</li> <li>• Pine Forest</li> <li>• Lone Willow</li> <li>• Santa Rosa</li> </ul>	
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)-2 CSU (2002)</b>  No exploration during nesting/brood rearing period (April 1-September 15) in identified nesting habitat.	
WD RMP 2015	TL	<b>NV-WDO-MD SSS-02(E)-3</b>  No exploration during winter (November 1-February 28) in identified winter habitats.	

<b><u>Wildlife</u></b>				
<b><i>Big Horn Sheep &amp; Big Game</i></b>				
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Yes/No</b>	<b>Comments</b>
WD RMP 2015	TL/NSO	<b>App. L, NV-WD-SSS-1.2 (WD RMP, Objective D-FW-1 and</b>	Yes	<b>Potential</b> Bighorn Sheep range.

<b><u>Wildlife</u></b>				
<b><i>Big Horn Sheep &amp; Big Game</i></b>				
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Yes/No</b>	<b>Comments</b>
		<p><b>Action FW 1.2)</b></p> <p>Where standard lease terms and permit-level decisions are deemed insufficient to protect sensitive resources, but where an NSO is deemed overly restrictive, the BLM would apply seasonal or time limited stipulations to leases as appropriate by wildlife species to protect habitat, provide continuity of migration corridors, and protect seasonal use areas.</p> <p>Bighorn Sheep: Objective: Protect Bighorn Sheep from disturbance during lambing, NSO within a ¼ mile radius of designated lambing habitat</p>		Upon site specific analysis, controlled surface use, timing limitations, or mitigation measures may be applied to address areas of crucial deer, antelope, and big horn sheep habitat.
WD RMP 2015	TL	<p><b>Appendix L, NV-WDO-WILD-03, Objective D-FW-1, WD-FW 1.2</b></p> <p>This stipulation will be applied to protect the continuity of migration corridors and important habitat, as recognized and designated by BLM and NDOW. These timing limitations will be applied within the designated habitat to protect the values and functions of these areas. Specific locations and the times applicable will be based on the nature, extent, and value of the area potentially affected.</p>	No	

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Recreation  
Reviewer: Peggy McGukian  
Date: July 25, 2016

Source Document	Type	Description	Comments
WDRMP 2015	NSO	<b>NV-WDO-REC-01</b>  No surface occupancy on developed recreational facilities, special-use permit recreation sites (e.g., ski resorts and camps), and areas with significant recreational use with which geothermal development is deemed incompatible, excluding direct use applications.	There are no developed recreational facilities on the parcel.  There have been some Off-road races adjacent to the parcel. However there has not been a special use permit issued recently.



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Soils  
Reviewer: Rob Burton  
Date: July 6, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	NSO	<p><b>Stipulation</b> <b>No Surface Occupancy</b></p> <p>No surface occupancy will be applied to slopes greater than 50% (as mapped by the USGS 1:24,000 scale topographic maps or as determined by a BLM evaluations of the area).</p> <p>Exception The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location or a site specific evaluation determines that the slope would not result in mass slope failure or accelerated erosion and the operator would be able to me BLM's reclamation standards.</p> <p>Modification</p>	

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	CSU	<p>The authorized officer may modify the area subject to the stipulation based upon a BLM evaluation of the area. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p> <p>Waiver The restriction may be waived if it is determined that the described lands do not include lands with slopes greater than 50%. This determination shall be based upon USGS mapping and a BLM evaluation of the area.</p> <p><b>Stipulation</b> <b>Controlled Surface Use (CSU)</b></p> <p>Controlled Surface Use will be applied to lands with a severe soil wind or water erosion hazard rating (as designed by</p>	<p><i>*Areas identified as having high potential for wind erosion can be evaluated by the BLM on a case-by-case basis for establishing possible mitigation measures.</i></p>

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<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>NRCS soil survey data when available). Prior to surface disturbance on soils with a severe erosion hazard rating, a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Geothermal Drilling/Application for Permit to Drill – Plan of Operations. The operator may not initiate surface disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions. The plan must demonstrate to the Authorized Officer's satisfaction how the operator will meet the following performance standards:</p> <ul style="list-style-type: none"> <li>• Soil stability is maintained preventing slope failure and wind or water erosion.</li> <li>• The site will be stable with no evidence of accelerated erosion features.</li> <li>• The rate of soil erosion will be controlled to maintain or improve soil quality and sustainability. The disturbed soils shall</li> </ul>	

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>have characteristics that approximate the reference site with regard to quantitative and qualitative soil erosion indicators described in H-7100-1 Soil Inventory, Monitoring, and Management Handbook.</p> <ul style="list-style-type: none"> <li>• Sufficient topsoil is maintained for ensuring successful final reclamation. At locations where interim reclamation will be completed, this will be accomplished by re-spreading the topsoil over the areas of interim reclamation.</li> <li>• The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation.</li> </ul> <p>The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar</p>	

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<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>sites or increased national or state performance standards.</p> <p>Exception The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location, or a soil survey determines that the soil properties do not meet the severe erosion hazard criteria so that the proposed action would not result in a failure to meet the performance standards above.</p> <p>Modification The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p>	

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<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>Waiver</p> <p>The restriction may be waived if it is determined that the described lands do not include soils with severe erosion hazard. This determination shall be based upon NRCS mapping and BLM evaluation of the area.</p>	

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Cultural, NAC, & Historic Trails  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NSO	<p><b>NV-WD-CRNA-03</b>  <b>No Surface Occupancy (NSO) for National Historic Trails (NHT)</b>            No surface occupancy (NSO) will be applied on congressionally designated historic trails and additional lands bordering the trails to the extent necessary to protect values where the integrity of setting is critical to their designation or eligibility. This applies specifically within a mile of the NHT. To accomplish this, any quarter quarter-section (10-acre parcel) within or intersected by the NHT or the one-mile buffer line would be subject to NSO.</p>	<p><b>NSO:</b> The California Trail goes through part of two sections (T28N R32E Sec. 14 and 22) and the other sections within the lease parcel are within a mile of the California Trail.</p> <p><b>NSO:</b> No new fluid or solid leasable mineral surface occupancy will be allowed within a mile of the National Historic Trail (RMP Action CR6.9). This area includes T28N R32E Sec. 14 (entire section), 22 (entire section), 24 (NWNW), 26 (NWNW, NENW, SWNW, SENW, SWSW), 34 (NW 1/4, NWSW, NWNE) as well as T27N R32E Sec 04 (NW 1/4, SW 1/4, NE 1/4, NWSE, SWSE).</p> <p><b>NSO:</b> No Surface Occupancy will be applied on congressionally designated historic trails and additional lands bordering the trails to the extent necessary to protect values where the setting and integrity is critical to their designation or eligibility.</p>
<i>Record of Decision and Resource Management</i>	NSO/NTL	<p><b>NV-WD-CRNA-02</b>  <b>No Surface Occupancy in National Register of Historic Places sites</b>            No surface occupancy (NSO) in areas containing NRHP eligible, listed and</p>	<p><b>NSO:</b> Potential NRHP eligible sites exist in T28N R32E Sec. 14(entire section), 22 (entire section) and 26 (SENE and SWSW).</p> <p><b>NTL:</b> For development and production phases,</p>

Source Document	Type	Description	Comments
<i>Plan for the Winnemucca District Planning Area, May 2015</i>		unevaluated sites and TCPs. To accomplish this, any quarter-quarter-quarter section (10-acre parcel) within or intersected by the site would be subject to NSO. For development and production phases, surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the National Historic Preservation Act (NHPA) requirements and Native American consultation process. Additional lands outside the designated boundaries of sites may be added to the NSO restriction to the extent necessary to protect values where the setting and integrity is critical to their designation or eligibility.	<p>surface occupancy may be limited to a specific distance or precluded at hot springs, pending conclusion of the Native American consultation process. Notice to lessee applies to entire parcel.</p> <p><b>NTL:</b> The Winnemucca District Resource Management Plan allows for the development of stipulations, use restrictions, mitigation measures and other management actions to protect traditional use areas and practices (RMP Action TC 2.4). Notice to lessee applies to entire parcel.</p>

<u>Historic Trails</u>			
Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca</i>	NTL	<p><b>NV-WD-CRNA-01</b>  <b>Protection of Cultural Sites Resources and Consultation with Native American Tribes and the State Historic Preservation Office</b>  The authorized officer of the BLM will consult with the appropriate Native</p>	Notice to lessee applies to entire parcel.



<b><u>Historic Trails</u></b>			
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
<i>District Planning Area, May 2015</i>		American Tribes and State Historic Preservation Officers regarding cultural resources per Section 106 of the National Historical Preservation Act and its implementation through the protocol between the BLM Nevada State Director and the Nevada State Historic Preservation Office. The presence of National Register eligible, listed, and unevaluated sites will be determined on the basis of a literature review of recorded sites and properties in the proposed lease area. A protective buffer around a site within the lease area, if appropriate, may be applied. Additional 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.	
<i>Record of Decision and Resource Management Plan for the Winnemucca</i>	<b>NTL</b>	<b>NV-WD-CRNA-04 Protection of National Historic Trails</b> This parcel includes lands within the viewshed of congressionally designated historic trails. As described in the Winnemucca District RMP, Action D-CR 6.2 unless otherwise cited, new	<b>NTL:</b> The California Trail goes through part of two sections (T28N R32E Sec. 14 and 22) and the remainder of the lease parcel is within six miles of the California Trail. Notice to lessee applies to entire parcel.  <b>NTL:</b> This parcel includes lands within the viewshed

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<u>Historic Trails</u>			
Source Document	Type	Description	Comments
<i>District Planning Area, May 2015</i>		development within six miles of the NHT will be managed to Visual Resource Management Class II objectives. These objectives would be met through conditions of approval applied during the permit approval process.	of a congressionally designated historic trail. Fluid mineral operational activities may be subject to VRM Class II objectives in order to protect the historical and scenic values of the trails. Notice to lessee applies to entire parcel.

Lands & Realty  
Reviewer: Debbie Dunham  
Date: July 5, 2016

Source Document	Type	Description	Comments
LR 2000 (Geo Report with Customer)	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.	NVCC-018252 Nevada Bell - Telephone Line N-3854- Samualla Pry and Samuel L. Pry - Water Plant N-4495 - NV Dept of Transportation - Material Site N-6984 - NV Dept of Transportation - Federal Hwy N-43011- Pershing County - Road N-53750 -R T Vanderbilt CO. - Mineral Patent N-53776 - Nevada Bell - Telephone Line N-65329 - E P Minerals LLC and Eagle Picher Mineral - Surface Mgmt Plan

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Source Document	Type	Description	Comments
			<p>N-65550 - Wiltel Communications - Telephone Line</p> <p>N-86763 - Gradient Resources Inc. - Geo Geophysical Exploration</p> <p>N-88369 - SPPC - Transmission Line</p> <p>N-90076 - R T Vanderbilt Co. Inc. - Road</p> <p>N-90733 - Lovelock Meadows Water District - Water Facility</p> <p>N-93931 - Rye Patch Gold US Inc.- Pendng- Surface Mgmt Plan</p> <p>N-26487 - NV Dept of Transportation - Federal Hwy</p> <p>N-43236 - Southern Pacific Railroad</p> <p>NVCC-8790 - Nevada Bell - Telephone Line</p> <p>NVCC-18252- Nevada Bell - Telephone Line</p> <p>NVCC - 20903 - NV Dept of Transportation- Federal Hwy</p> <p>NVCC - 20968 - NV Dept of Transportation- Material Site</p> <p>N-6984 -NV Dept of Transportation- Federal Hwy</p> <p>N-33054 - Nevada Bell - Road</p> <p>N-43011 - Pershing County Road</p> <p>N-46307 - NV Division of State Lands - Road</p> <p>N-46651 - Lovelock Meadows - Water Facility</p> <p>N-65550 - Wiltel Communications - Telephone Line</p>

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Source Document	Type	Description	Comments
			<p>N-86763 - Gradient Resources Inc. Geo Geophysical Exploration</p> <p>N-88369 - SPPC - Transmission Line</p> <p>N-90074 - Nevada Iron LLC - pending Transmission Line</p> <p>N-90428 - Tahoe Mining Co Inc.; John Moore; Newmont Mining Corp; and Rye Patch Gold US Inc. - Surface Mgmt Notice</p> <p>N-93831 - Rye Patch Gold US Inc - Pending - Surface Mgmt Plan</p> <p>N-43236 - Southern Pacific Railroad</p> <p>N-46114 - Eagle Picher Co. - Water Plant</p> <p>N-51027 - NV Dept of Transportation-Federal Hwy</p>

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

Paleontology  
Reviewer: Tanner Whetstone  
Date: June 29, 2016

Source Document	Type	Description	Comments
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NTL	<b>NV-WD-PALEO-02</b> <b>Protection of Potential Fossil Yield Classification (PFYC) 3: Moderate Potential</b> This area has moderate potential for vertebrate paleontological resources. Inventory and/or on-site monitoring during disturbance or spot checking may be required. If fossils are discovered, avoidance or data recovery will be required prior to their disturbance if they are deemed to be of scientific importance.	Notice to lessee applies to the following lands:  T.0280N, R.0320E, 21 MDM, NV Sec. 014 ALL; Sec. 022 ALL; Sec. 034 ALL  T.0270N, R.0320E, 21 MDM, NV Sec. 002 NW; Sec. 004 ALL
<i>Record of Decision and Resource Management Plan for the Winnemucca District Planning Area, May 2015</i>	NTL	<b>NV-WD-PALEO-03</b> <b>Protection of Potential Fossil Yield Classification (PFYC) 4 and 5: High/Very High Potential</b> This area has high and very high potential for paleontological resources. This land is underlain by geologic units that have been documented to contain a high occurrence of fossils, which may consist of scientifically significant vertebrate fossils. A field survey by a	Notice to lessee applies to the following lands:  T.0280N, R.0320E, 21 MDM, NV Sec. 024 ALL; Sec. 026 NE, SE, SENW  T.0270N, R.0320E, 21 MDM, NV Sec. 002 NE, SE, SENW, NESW

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

Source Document	Type	Description	Comments
		qualified paleontologist, and at the lessee's expense, will be required prior to surface disturbing activities. If significant fossils of scientific importance are discovered they will require avoidance or data recovery prior to their disturbance. On site monitoring may be necessary during construction activities.	

Riparian  
Reviewer: Robert Gibson  
Date: July 11, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015	CSU	<b>NV-WD-RIPAR-01</b>  Controlled surface use will be applied within 500 feet of riparian or wetland vegetation to protect the values and functions of these areas. Specific	T28N, R32E, Sec. 022, MDB&M: NVNWNENE, N2SWNE, NESWNW, N2SENW.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		measures required will be based on the nature, extent, and value of the area potentially affected.	

Water  
Reviewer: Robert Gibson  
Date: July 11, 2016

Source Document	Type	Description	Comments
WDRMP 2015	NSO	<b>NV-WD-WATER-04</b>  <b>Protection of Municipal Well Head Protection Zones.</b> Some, or all, of this lease parcel is within a recognized municipal well head protection zone. No surface occupancy within recognized well head protection zones or within 1,000 feet of a municipal well head.	No recognized well head protection zones located on the lease.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

Wild Horse & Burro  
Reviewer: Samantha Gooch  
Date: July 5, 2016

NOTE			
Source Document	Type	Description	Comments
WDRMP 2015	NTL	<b>NV-WD-WH&amp;B-01</b> (WD RMP, Actions D- 4.1) Wild horse or burro populations are known to use some or all of the proposed lease area. If proposed fluid mineral activities are to occur in horse management areas (HMA) it may be necessary to avoid or develop mitigation measures to reduce adverse impacts to horses and/or burros. These measures would be designed in a manner that does not hinder the wild and free-roaming behavior of the horses and burros and may include, but are not limited to, providing alternative water sources for horses of equal quality and quantity. Additional specific measures to protect horses and burros may be developed during review of proposals.	



Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

T&E, SSS, Wildlife  
Reviewer: Josef Porter  
Date: June 30, 2016

Source Document	Type	Description	Comments
WD RMP 2015	Lease Notice	<p><b>Appendix L, NV-WD-SSS-01,</b> (WD RMP CA-SSS 1.1, CA-1.2)</p> <p>The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. 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. 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. No surface disturbance would be authorized before a special status species inventory of the project area is completed by a qualified biologist or botanist. In the event a</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

Source Document	Type	Description	Comments
		special status species inventory cannot be conducted, a determination will be made by a BLM biologist or botanist as to the likelihood of suitable habitat for the special status species in the project area and if such habitat is likely, it will be assumed the special status species is present as well. 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.	
WD RMP 2015	CSU	<p><b>Appendix L, NV-WDO-SSS-02</b> (WD RMP Action D-SSS 1.1)</p> <p>Controlled surface use of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended) would be applied if fluid mineral activities would be likely to adversely modify the habitat for the short term. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.</p>	
WD RMP 2015	NSO	<p><b>App. L, NV-WD-SSS-03</b> (WD RMP, Action D-SSS 1.1)</p> <p>No surface occupancy of designated or proposed critical habitat for listed species under the Endangered Species Act of 1973 (as amended)</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

Source Document	Type	Description	Comments
		would be applied if fluid mineral activities would be likely to adversely modify the habitat for the long term. For listed or proposed species without designated habitat, no surface occupancy would be implemented to the extent necessary to avoid jeopardy.	
WD RMP 2015	CSU	<p><b>App. L, NV-WDO-SSS-05</b></p> <p>For BLM-designated sensitive species (e.g. sage-grouse and others), a lease stipulation for controlled surface use, would be applied to defined avoidance areas where fluid mineral activities would be likely to adversely impact the species or modify the habitat and other existing measures are inadequate to meet agency management objectives. Controlled surface use will be applied within the designated habitat to protect the values and functions of these areas. Specific measures required will be based on the nature, extent, and value of the area potentially affected.</p>	<p>Based on habitat characteristics, the lessee may be required to conduct surveys for sensitive species that may potentially utilize the area.</p> <p>Sensitive plant surveys will be required.</p>
WD RMP 2015	TL	<p><b>App. L, NV-WDO-SSS-06</b> (WD RMP, Action CA-SSS 1.7)</p> <p>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. These species will be managed in accordance with FLPMA, the Bald and Golden Eagle Protection Act (BGEPA) and the Migratory Bird Treaty Action (MBTA).</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

<b>General Wildlife/ GRSG</b>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	Lease Notice	<p><b>App. L, NV-WD-WILD-04</b> (WD RMP Action FW 4.1)</p> <p>Ground disturbing activities during the migratory bird-nesting season (approximately March 1 through August 31 (as dependent on species) 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 of time, appropriate inventories for migratory birds shall be conducted prior to site development, as described below. This survey would identify either breeding adult birds or nest sites within the areas to be disturbed. If active nests are present, the proponent will coordinate with the BLM to develop appropriate protection measures for these sites, which may include avoidance, construction constraints, and/or establish buffers.</p> <p>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 one (1) day prior to proposed disturbance activities. The applicant will notify the BLM biologist no less than five (5) work days prior to a survey being</p>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

<i>General Wildlife/ GRSG</i>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		conducted. The surveys will be performed at the applicant's expense by a biologist acceptable to the BLM. Survey methodology will follow scientifically acceptable 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).	
WD RMP 2015	NSO	<b>NV-WDO-ARMPA (App. B)</b> <b>NVCA GRSG ARMPA</b> <b>No Surface Occupancy for sage grouse leks.</b> No surface occupancy within 5 km (3.1 miles) of known leks at all times.	
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)</b>  <b>Timing limitations on known or potential sage grouse habitat.</b> <i>Prior to entry on any lease areas which include known or potential habitat, the lessee (operator) shall contact the appropriate BLM Field Office to discuss any proposed activities.</i> Seasonal restrictions will be applied during the period specified below to manage discretionary surface-disturbing activities and uses on public lands to prevent disturbance to GRSG during seasonal life-cycle	Portions of the parcel (T28N R32E Sec24) are located within OHMA, but are not within any known seasonal habitat (i.e. wintering, nesting, summer) or PMU. In OHMAs, authorized or permitted activities are implemented adhering to required design features (RDFs)

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

<b>General Wildlife/ GRSG</b>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<p>periods:</p> <ol style="list-style-type: none"> <li>1. In breeding habitat within 4 miles of active/pending leks from March 1-June 30               <ol style="list-style-type: none"> <li>a. Lek-March 1-May 15</li> <li>b. Lek hourly restrictions 6 pm to 9 am</li> <li>c. Nesting-April 1-June 30</li> </ol> </li> <li>2. Brood-rearing habitat from May 15 to September 15               <ol style="list-style-type: none"> <li>a. Early-May 15-June 15</li> <li>b. Late-June 15-September 15</li> </ol> </li> <li>3. Winter habitat from November 1-February 28</li> </ol>	
WD RMP 2015	NSO	<p><b>NV-WDO-MD-SSS-Action 5.2.1 (RMP Objective SSS 5)</b></p> <p>Manage the following PMUs as priority habitat management areas (PHMA) to achieve desired sage-grouse and other sensitive species populations and protect habitat conditions as no surface disturbance or no surface occupancy applicable to the following uses; saleable minerals (Government use subject to the criteria listed below), fluid minerals, solid mineral leasing (energy and non-energy) and rights of way.</p>	

Geothermal Leasing Sale, October 26, 2016  
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<b>General Wildlife/ GRSG</b>	<b>Prelude to following stipulations</b>		
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
		<ul style="list-style-type: none"> <li>• North Massacre (adjacent to Black Rock PMU)</li> <li>• Black Rock</li> <li>• Pine Forest</li> <li>• Lone Willow</li> <li>• Santa Rosa</li> </ul>	
WD RMP 2015	TL	<b>NV- WDO-MD SSS-02(E)-2 CSU (2002)</b>  No exploration during nesting/brood rearing period (April 1-September 15) in identified nesting habitat.	
WD RMP 2015	TL	<b>NV-WDO-MD SSS-02(E)-3</b>  No exploration during winter (November 1-February 28) in identified winter habitats.	

<b><u>Wildlife</u></b>			
<b><i>Big Horn Sheep &amp; Big Game</i></b>			
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	TL/NSO/CS U	<p><b>App. L, NV-WD-SSS-1.2 (WD RMP, Objective D-FW-1 and Action FW 1.2)</b></p> <p><b>Controlled surface use or timing limitation for critical big game habitat.</b> Where standard lease terms and permit-level decisions are deemed insufficient to protect sensitive resources, but where an NSO is deemed overly restrictive, the BLM would apply seasonal or time limited stipulations to leases as appropriate by wildlife species to protect habitat, provide continuity of migration corridors, and protect seasonal use areas.</p> <p><b>Mule Deer:</b> Objective: Protect crucial winter habitat (areas), NSO within crucial mule deer winter habitat- November 15-April 30</p> <p><b>Bighorn Sheep:</b> Objective: Protect Bighorn Sheep from disturbance during lambing, NSO within a ¼ mile radius of designated lambing habitat</p>	<p><b>Crucial Winter Mule Deer Potential Bighorn Sheep range.</b></p> <p>Upon site specific analysis, controlled surface use, timing limitations, or mitigation measures may be applied to address areas of crucial deer, antelope, and big horn sheep habitat.</p>



<b><u>Wildlife</u></b>			
<b><i>Big Horn Sheep &amp; Big Game</i></b>			
<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WD RMP 2015	TL	<p><b>Appendix L, NV-WDO-WILD-03, Objective D-FW-1, WD-FW 1.2</b></p> <p>This stipulation will be applied to protect the continuity of migration corridors and important habitat, as recognized and designated by BLM and NDOW. These timing limitations will be applied within the designated habitat to protect the values and functions of these areas. Specific locations and the times applicable will be based on the nature, extent, and value of the area potentially affected.</p>	

Recreation  
Reviewer: Peggy McGukian  
Date: July 25, 2016

<b>Source Document</b>	<b>Type</b>	<b>Description</b>	<b>Comments</b>
WDRMP 2015	NSO	<p><b>NV-WDO-REC-01</b></p> <p>No surface occupancy on developed recreational facilities, special-use permit recreation sites (e.g., ski resorts and camps), and areas with significant recreational use with which geothermal development is deemed incompatible,</p>	There are no developed recreational facilities or special use permits issued on the parcel.

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

Source Document	Type	Description	Comments
		excluding direct use applications.	

Soils

Reviewer: Rob Burton

Date: July 6, 2016

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	NSO	<b>Stipulation</b> <b>No Surface Occupancy</b>  No surface occupancy will be applied to slopes greater than 50% (as mapped by the USGS 1:24,000 scale topographic maps or as determined by a BLM evaluations of the area). Exception	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location or a site specific evaluation determines that the slope would not result in mass slope failure or accelerated erosion and the operator would be able to meet BLM's reclamation standards.</p> <p>Modification The authorized officer may modify the area subject to the stipulation based upon a BLM evaluation of the area. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p> <p>Waiver The restriction may be waived if it is determined that the described lands do not include lands with slopes greater</p>	

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
WDRMP 2015 EIS, Appendix L:	CSU	<p>than 50%. This determination shall be based upon USGS mapping and a BLM evaluation of the area.</p> <p><b>Stipulation</b> <b>Controlled Surface Use (CSU)</b></p> <p>Controlled Surface Use will be applied to lands with a severe soil wind or water erosion hazard rating (as designed by NRCS soil survey data when available). Prior to surface disturbance on soils with a severe erosion hazard rating, a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Geothermal Drilling/Application for Permit to Drill – Plan of Operations. The operator may not initiate surface disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions. The plan must demonstrate to the Authorized Officer's</p>	<i>*Areas identified as having high potential for wind erosion can be evaluated by the BLM on a case-by-case basis for establishing possible mitigation measures.</i>

<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>satisfaction how the operator will meet the following performance standards:</p> <ul style="list-style-type: none"> <li>• Soil stability is maintained preventing slope failure and wind or water erosion.</li> <li>• The site will be stable with no evidence of accelerated erosion features.</li> <li>• The rate of soil erosion will be controlled to maintain or improve soil quality and sustainability. The disturbed soils shall have characteristics that approximate the reference site with regard to quantitative and qualitative soil erosion indicators described in H-7100-1 Soil Inventory, Monitoring, and Management Handbook.</li> <li>• Sufficient topsoil is maintained for ensuring successful final reclamation. At locations where interim reclamation will be completed, this will be accomplished by re-spreading the topsoil over the areas of interim reclamation.</li> <li>• The original landform and site productivity will be partially restored</li> </ul>	

Geothermal Leasing Sale, October 26, 2016  
Parcel NV-16-10-009 Worksheet

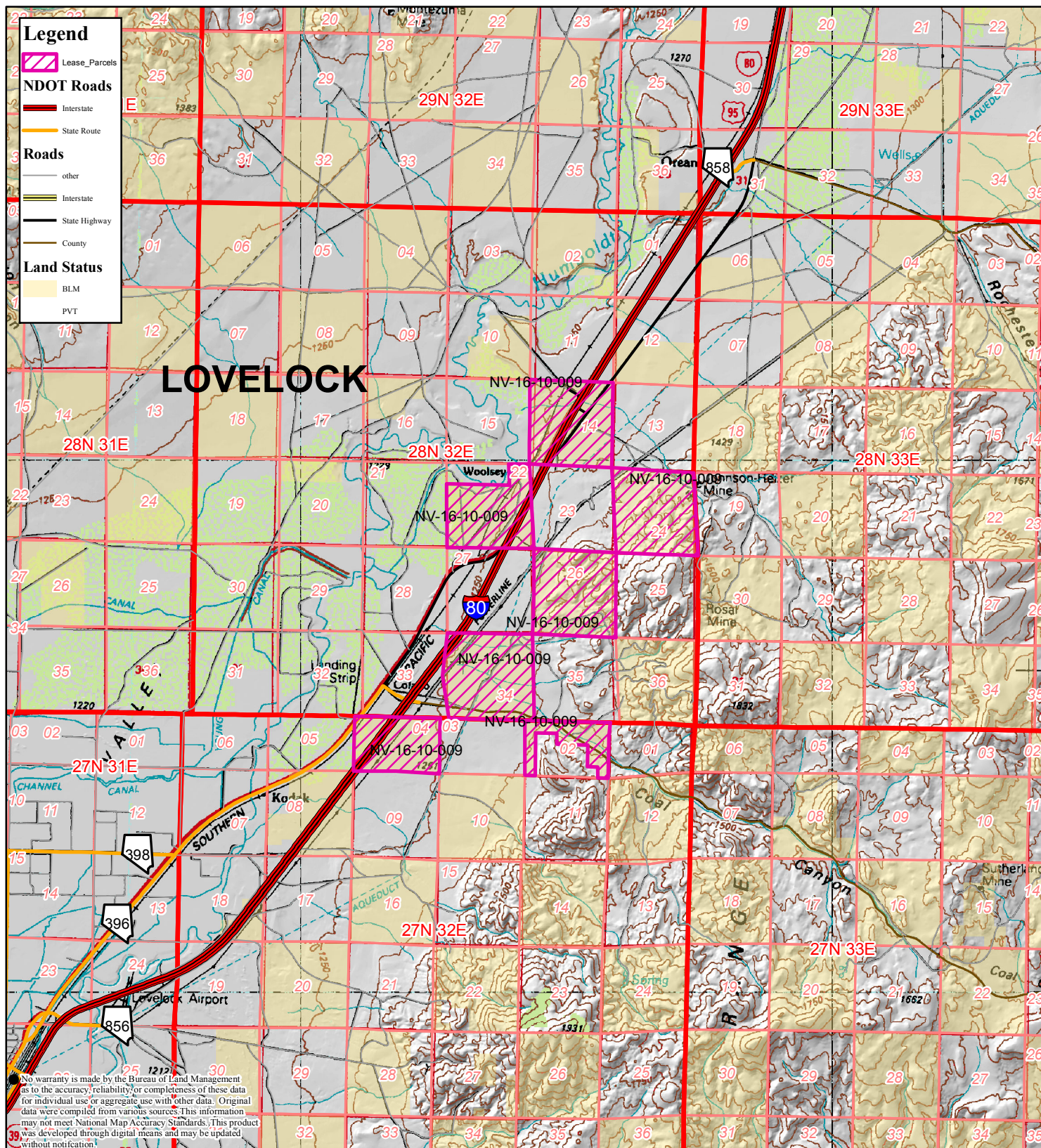
<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>during interim reclamation and fully restored as a result of final reclamation. The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p> <p>Exception The BLM authorized officer may grant an exception if a staff review determines that the proposed action is of a scale (pipeline, vs. road, vs. well pad) or sited in a location, or a soil survey determines that the soil properties do not meet the severe erosion hazard criteria so that the proposed action would not result in a failure to meet the performance standards above.</p> <p>Modification</p>	


Geothermal Leasing Sale, October 26, 2016  
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<b>NOTE</b>		<i>When applying these stipulations we need to identify the habitat(s) being protected, and the specific lands within the parcel to which the stipulation is relevant, to the nearest quarter-quarter-quarter section (10 acres)</i>	
Source Document	Type	Description	Comments
		<p>The authorized officer may modify the size and shape of the restricted area subject to the stipulation based upon a NRCS soil survey or BLM evaluation. The stipulation and performance standards identified above may also be modified based on negative or positive monitoring results from similar proposed actions on similar sites or increased national or state performance standards.</p> <p>Waiver</p> <p>The restriction may be waived if it is determined that the described lands do not include soils with severe erosion hazard. This determination shall be based upon NRCS mapping and BLM evaluation of the area.</p>	




# Geothermal Lease Sales 2016



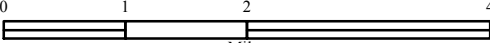


**Winnemucca District**  
Bureau of Land Management  
5100 E. Winnemucca Blvd  
Winnemucca, NV. 89445

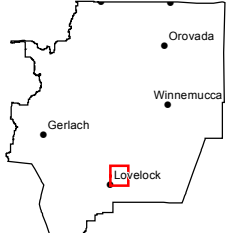
Lovelock, NV  
USGS 100k Quadrangle  
T27N,R32E, & T28N,R32E



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Date: 4/13/2016



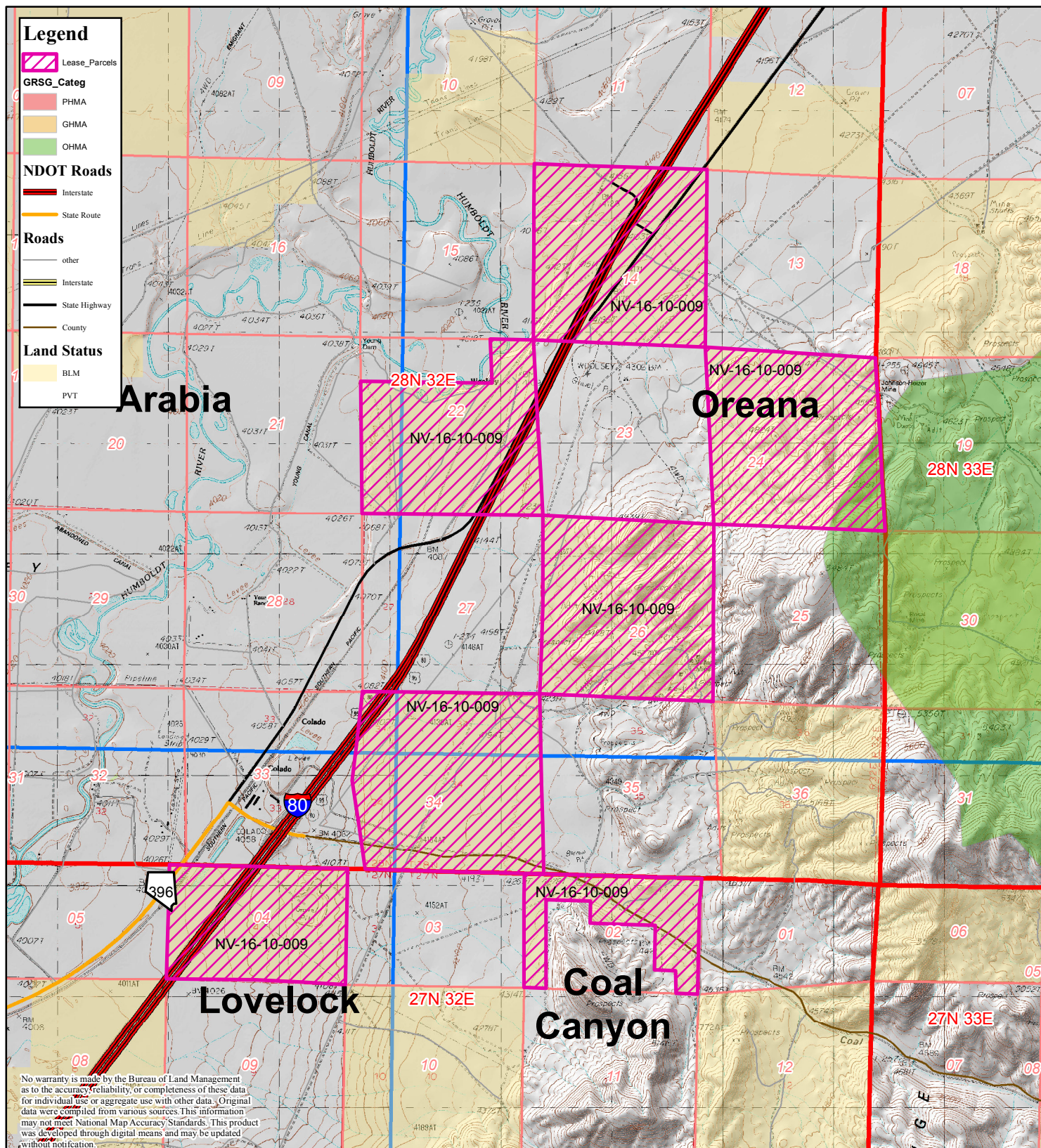
0 1 2 4  
Miles




Oroville  
Winnemucca  
Gerlach  
Lovelock



# Geothermal Lease Sales 2016





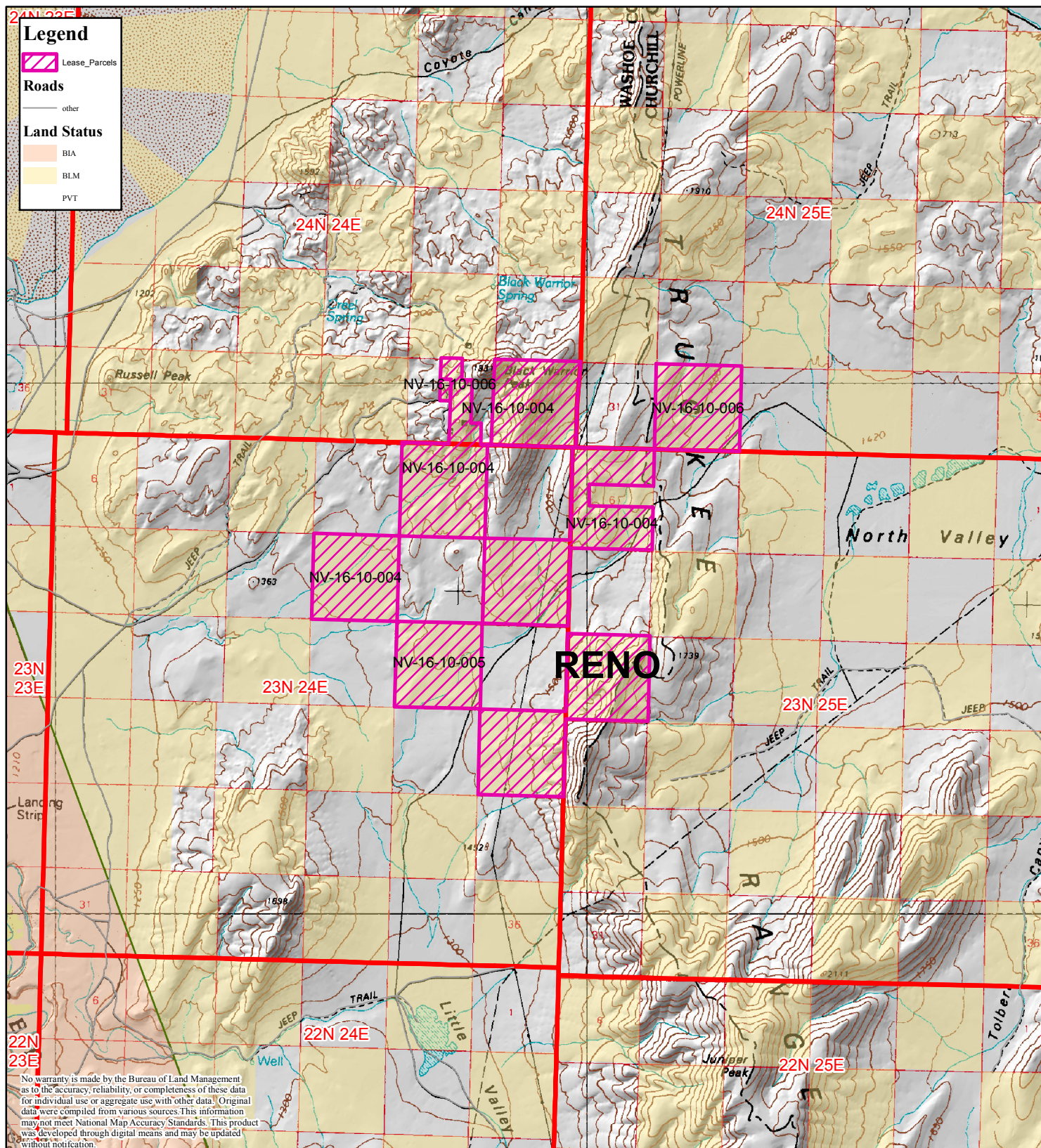
**Winnemucca District**  
Bureau of Land Management  
5100 E. Winnemucca Blvd  
Winnemucca, NV. 89445


Lovelock, NV  
USGS 100k Quadrangle  
T27N,R32E, & T28N,R32E

1:48,000  
Date: 4/13/2016




# Geothermal Lease Sales 2016



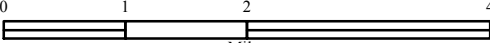


**Winnemucca District**  
Bureau of Land Management  
5100 E. Winnemucca Blvd  
Winnemucca, NV. 89445

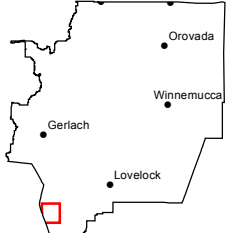
**Reno, NV**  
USGS 100k Quadrangle  
T23N,R24E, T24N,R24E,  
T23N,R25E, & T24N,R25E



1:100,000  
Date: 4/13/2016

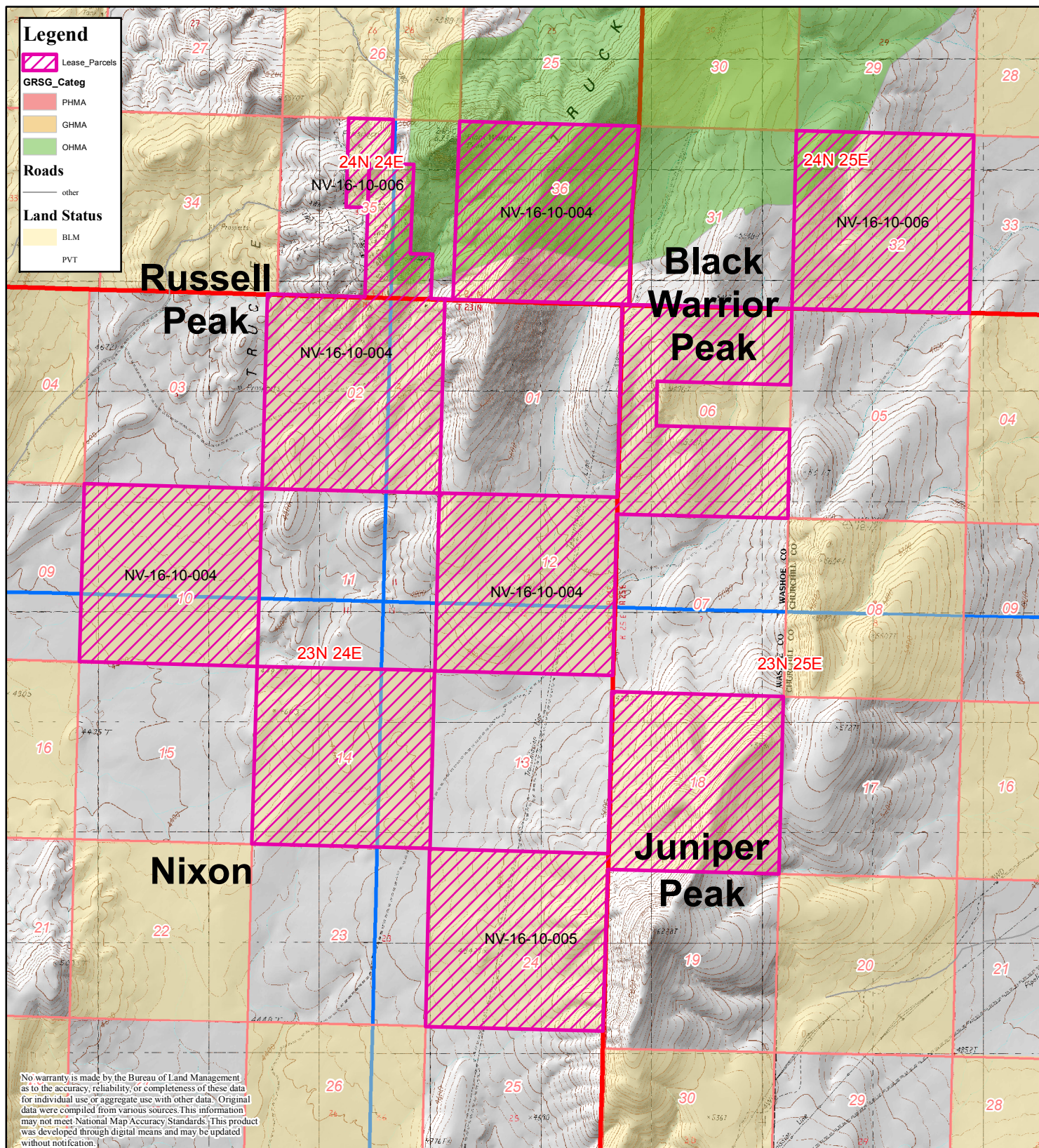



0 1 2 4  
Miles






# Geothermal Lease Sales 2016



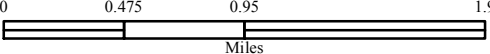


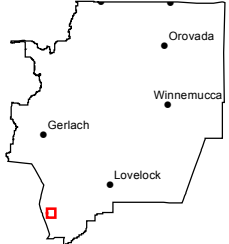
**Winnemucca District**  
Bureau of Land Management  
5100 E. Winnemucca Blvd  
Winnemucca, NV. 89445

Reno, NV  
USGS 100k Quadrangle  
T23N,R24E, T24N,R24E,  
T23N,R25E, & T24N,R25E



1:48,000  
Date: 4/13/2016





October 26, 2016 Geothermal Lease Sale  
Parcel Information and Legal Descriptions

**NV-16-10-004                    3401.860 Acres**

T.0230N, R.0240E, 21 MDM, NV  
  Sec. 002    LOTS 1-4;  
          002    S2N2,S2;  
          010    ALL;  
          012    ALL;  
T.0240N, R.0240E, 21 MDM, NV  
  Sec. 035    W2NWNE,SWNE,E2NENW,NWSE;  
          035    SWSE,W2SESE;  
          036    ALL;  
T.0230N, R.0250E, 21 MDM, NV  
  Sec. 006    LOTS 1-11;  
          006    E2SW,SE;

Washoe County  
Winnemucca DO  
PENDING NOMINATION NVN093438  
LANDS LIE WITHIN OHMA  
Formerly Lease No.

**NV-16-10-005                    1895.920 Acres**

T.0230N, R.0240E, 21 MDM, NV  
  Sec. 014    ALL;  
          024    ALL;  
T.0230N, R.0250E, 21 MDM, NV  
  Sec. 018    LOTS 1-4;  
          018    E2,E2W2;

Washoe and Churchill Counties  
Winnemucca DO  
PENDING NOMINATION NVN093684  
Formerly Lease No.

**NV-16-10-006                    660.000 Acres**

T.0240N, R.0240E, 21 MDM, NV  
  Sec. 035    E2SENE;  
T.0240N, R.0250E, 21 MDM, NV  
  Sec. 032    ALL;

Churchill and Washoe Counties  
Winnemucca DO  
PENDING NOMINATION NVN093680  
LANDS LIE WITHIN OHMA  
Formerly Lease No.

**NV-16-10-009                    3720.830 Acres**

T.0270N, R.0320E, 21 MDM, NV  
  Sec. 002    LOTS 1-4;  
          002    W2W2SW;

October 26, 2016 Geothermal Lease Sale  
Parcel Information and Legal Descriptions

002 E2E2SE,NWNESE,N2NWSE;  
002 SWNESE,NWSESE,NENESW;  
004 LOTS 1-4;  
004 S2;  
T.0280N, R.0320E, 21 MDM, NV  
Sec. 014 ALL;  
022 NENE,S2N2,S2;  
024 ALL;  
026 ALL;  
034 ALL;  
Pershing County  
Winnemucca DO  
PENDING NOMINATION NVN093687  
MAT SITE N-4495  
MAT SITE CC 20968  
LANDS LIE WITHIN OHMA  
Formerly Lease No.