OPERATIONS PLAN
(43 CFR SUBPART 3250)

GERLACH
GEOTHERMAL EXPLORATION PROJECT

FEDERAL GEOTHERMAL LEASES:
NVN55718
NVN75228
NVN98640
NVN98641
NVN100029

FEDERAL GEOTHERMAL LEASE UNIT:
NVN88151X

WASHOE COUNTY, NEVADA

SEPTEMBER 2022

APPLICANT:
ORNI 26 LLC
6140 PLUMAS ST
RENO, NV 89519
1.0 INTRODUCTION AND ORGANIZATION ...................................................................1
   1.1 Project Summary ......................................................................................................1
   1.2 Summary of Surface Disturbance ............................................................................1
   1.3 Operations Plan Organization ..................................................................................1
2.0 PROJECT DESCRIPTION ..............................................................................................3
   2.1 Geothermal Well Field .............................................................................................3
      2.1.1 Well Field Location .....................................................................................3
      2.1.2 Construction Procedures and Surface Disturbance ......................................4
      2.1.3 Well Drilling and Testing ............................................................................5
   2.2 Site Access and Road Construction .........................................................................6
   2.3 Water Requirements and Source ..............................................................................7
   2.4 Aggregate Requirements and Source .......................................................................8
   2.5 Personnel ..................................................................................................................9
   2.6 Surface Reclamation ................................................................................................9
3.0 ENVIRONMENTAL PROTECTION ...........................................................................10
   3.1 Adopted Environmental Protection Measures .......................................................10
   3.2 Fire Prevention and Control ...................................................................................10
   3.3 Surface and Ground Water Protection ...................................................................11
   3.4 Wildlife Protection ................................................................................................12
   3.5 Cultural Resource Protection ..................................................................................12
   3.6 Minimization of Air Pollution .................................................................................12
   3.7 Minimization of Noise Pollution ...........................................................................13
   3.8 Minimization of Hazards to Public Health and Safety ..........................................13
4.0 REFERENCES .................................................................................................................17

TABLES

Table 1: Federal Geothermal Leases .............................................................................1
Table 2: Maximum Project Surface Disturbance ...........................................................1
Table 3: Gerlach Well Sites on Federal Geothermal Leases .........................................3
Table 4: Well Drilling Specifics .....................................................................................5
Table 5: Road Construction Lengths and Disturbance Totals ......................................7
Table 6: Existing Aggregate Sources ............................................................................8
FIGURES

Figure 1: Project Vicinity Map ................................................................. 18
Figure 2: Federal Geothermal Lease Map .............................................. 19
Figure 3: Proposed Action Map (topo) .................................................. 20
Figure 4: Proposed Action Map (aerial) ................................................ 21
Figure 5: Well Pad Layout and Design .................................................. 22
Figure 6: Recommended Construction Standards for Exclosure Fences in Livestock Areas ................................................................. 23

APPENDICES

Appendix A Federal Geothermal Lease Stipulations

ACRONYMS AND ABBREVIATIONS

AOI Area of Interest
BLM Bureau of Land Management
E East
EPA United States Environmental Protection Agency
H2S hydrogen sulfide
N North
NCG Non-condensable gas
NDEP Nevada Division of Environmental Protection
NDOM Nevada Division of Minerals
NORM Naturally Occurring Radioactive Materials
Ormat ORNI 26 LLC
Project Gerlach Geothermal Exploration Project
R Range
T Township
UTM Universal Transverse Mercator
WCHD-AQMD Washoe County Health District–Air Quality Management
1.0 INTRODUCTION AND ORGANIZATION

1.1 Project Summary

ORNI 26 LLC (Ormat) is proposing to construct, operate, and maintain the Gerlach Geothermal Exploration Project (Project) in Washoe County, Nevada, located less than one mile northwest of Gerlach, Nevada (Figure 1). The Project would include the drilling and testing of geothermal wells and access road construction.

The wells proposed as part of the Project would be located within federal geothermal leases on public lands managed by the Bureau of Land Management (BLM) (Figure 1, Table 1). The Area of Interest (AOI) for the Project encompasses approximately 2,724 acres (Figure 2).

Table 1: Federal Geothermal Leases

<table>
<thead>
<tr>
<th>Lease Number</th>
<th>Township (T) and Range (R)</th>
<th>Section Number</th>
<th>Acreage</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVN55718*</td>
<td>T.32N., R.23E.</td>
<td>All or portions of Sections 9, 10, 15, 16</td>
<td>1,252</td>
</tr>
<tr>
<td>NVN75228*</td>
<td>T.32N., R.23E.</td>
<td>All or portions of Sections 3, 4, 10</td>
<td>1,521</td>
</tr>
<tr>
<td>NVN98640</td>
<td>T.33N., R.23E.</td>
<td>All or portions of Sections 25, 31, 32, 33, 34, 35, 36</td>
<td>1,040</td>
</tr>
<tr>
<td>NVN98641</td>
<td>T.32N., R23E.</td>
<td>All or portions of Sections 13, 14, 16, 17, 18, 19, 20, 21</td>
<td>1,640</td>
</tr>
<tr>
<td>NVN100029</td>
<td>T.32N., R23E.</td>
<td>All or portions of Sections 15, 16</td>
<td>251</td>
</tr>
</tbody>
</table>

*Gerlach Geothermal Unit Area (NVN88151X) includes leases NVN55718 and NVN75228.

1.2 Summary of Surface Disturbance

Total surface disturbance for the Project would be approximately 49.3 acres (Table 2).

Table 2: Maximum Project Surface Disturbance

<table>
<thead>
<tr>
<th>Activity</th>
<th>Maximum Surface Disturbance (acres)</th>
<th>Maximum Surface Disturbance After Interim Reclamation (acres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Pads</td>
<td>39.9</td>
<td>19.95*</td>
</tr>
<tr>
<td>New Road Construction</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Existing Road Improvement</td>
<td>2.4</td>
<td>2.4</td>
</tr>
<tr>
<td>Expanded Existing Aggregate Pit</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Total</td>
<td>49.3</td>
<td>9.4</td>
</tr>
</tbody>
</table>

* Assumes approximately half of the well pad would remain after interim reclamation.

1.3 Operations Plan Organization

The information contained in this Operations Plan is provided as requested in 43 Code of Federal Regulations 3261.12:

- Well pad layout and design;
- A description of existing and planned access;
• A description of any ancillary facilities;
• The source of drill pad and road building material;
• The water source;
• A statement describing surface ownership;
• Plans for surface reclamation;
• A description of procedures to protect the environment and other resources; and
• Additional information.

Baseline studies completed in support of the Project include cultural resources, biological resources, hydrologic resources (including surface and groundwater), visual resources, and night skies.
2.0 PROJECT DESCRIPTION

2.1 Geothermal Well Field

2.1.1 Well Field Location

Ormat expects that up to 19 geothermal exploration wells would be drilled and tested within the federal geothermal leases (Figures 3 and 4; Table 3). Prior to the initiation of exploration drilling activities, Ormat would submit a BLM Geothermal Drilling Permit (BLM Form 3260-2) and drilling program for the specified geothermal exploration well site location for review by the BLM. Additionally, Ormat would obtain the appropriate approvals from the Nevada Division of Minerals (NDOM). After the BLM and NDOM approvals are received, well pad preparation and drilling activities would occur. Further details of well pad preparation activities are included in Section 2.1.2.

Geothermal exploration wells would typically be drilled and tested one at a time. The subsequent location(s) of the geothermal exploration wells to be drilled would be determined from the geothermal reservoir data collected during the drilling operations of the first well, and so forth. The data collected from each exploration well would be used to inform the reservoir model and determine viability of a commercial geothermal resource.

Table 3: Gerlach Well Sites on Federal Geothermal Leases

<table>
<thead>
<tr>
<th>Well Name (Kettleman No.)</th>
<th>Lease Number</th>
<th>Legal Description¹ (Section Number &amp; Aliquot Part)</th>
<th>Approximate UTM Coordinates (NAD83)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Easting (m)</td>
</tr>
<tr>
<td>11-21</td>
<td>NVN98641</td>
<td>Section 21, NW ¼ of NW ¼</td>
<td>298121</td>
</tr>
<tr>
<td>15-10</td>
<td>NVN75228</td>
<td>Section 10, NW ¼ of SW ¼</td>
<td>299771</td>
</tr>
<tr>
<td>18B-10</td>
<td>NVN75528</td>
<td>Section 10, Lot 1 (SW ¼ of SW ¼)</td>
<td>299754</td>
</tr>
<tr>
<td>24-10</td>
<td>NVN75228</td>
<td>Section 10, SW ¼ of NW ¼</td>
<td>299887</td>
</tr>
<tr>
<td>37-16</td>
<td>NVN98641</td>
<td>Section 16, SE ¼ of SW ¼</td>
<td>298549</td>
</tr>
<tr>
<td>45-16</td>
<td>NVN100029</td>
<td>Section 16, Lot 3 (NW ¼ of SE ¼)</td>
<td>298971</td>
</tr>
<tr>
<td>58-3</td>
<td>NVN75228</td>
<td>Section 3, SW ¼ of NE ¼</td>
<td>300605</td>
</tr>
<tr>
<td>62-20</td>
<td>NVN98641</td>
<td>Section 20, NW ¼ of NE ¼</td>
<td>297491</td>
</tr>
<tr>
<td>63-3</td>
<td>NVN75228</td>
<td>Section 3, SW ¼ of NE ¼</td>
<td>300920</td>
</tr>
<tr>
<td>66-3</td>
<td>NVN75228</td>
<td>Section 3, NW ¼ of SE ¼</td>
<td>300756</td>
</tr>
<tr>
<td>67-16</td>
<td>NVN100029</td>
<td>Section 16, Lot 6 (SW ¼ of SE ¼)</td>
<td>299157</td>
</tr>
<tr>
<td>68-9</td>
<td>NVN555718</td>
<td>Section 9, SW ¼ of SE ¼</td>
<td>299162</td>
</tr>
<tr>
<td>71-3</td>
<td>NVN75228</td>
<td>Section 3, Lot 1 (NE ¼ of NE ¼)</td>
<td>301116</td>
</tr>
<tr>
<td>75-9</td>
<td>NVN555718</td>
<td>Section 9, NE ¼ of SE ¼</td>
<td>299415</td>
</tr>
<tr>
<td>77-9</td>
<td>NVN555718</td>
<td>Section 9, SE ¼ of SE ¼</td>
<td>299291</td>
</tr>
<tr>
<td>82-16</td>
<td>NVN555718</td>
<td>Section 16, NE ¼ of NE ¼</td>
<td>299502</td>
</tr>
</tbody>
</table>
### 2.1.2 Construction Procedures and Surface Disturbance

Each well pad would be approximately 300 feet by 300 feet (approximately 2.1 acres per pad) (Figure 5). Actual dimensions of the well pad would be modified to best match the specific physical and environmental characteristics of the site and to minimize grading (cut and fill). Total surface disturbance associated with new well pad construction would be approximately 39.9 acres (2.1 ac./pad * 19 pads).

Drill pad preparation activities would include clearing, earthwork, drainage, and other improvements necessary for efficient and safe operation and for fire prevention. Wells pads would be constructed by a contractor that would work closely with Ormat’s internal drilling engineering team. Only those drill pads scheduled to be drilled would be cleared. Clearing would include removal of organic material, stumps, brush and slash, which would either be removed and taken to an appropriate dump site or left on-site. Topsoil would be stripped (typically to the rooting depth) and salvaged during the construction of all pads, as feasible. Salvaged topsoil (and cleared organic material, stumps, brush and slash, if saved) would be stockpiled on the pads for use during subsequent reclamation of the disturbed areas.

Each drill pad would be prepared to create a level pad for the drill rig and a graded surface for the support equipment. Storm water runoff from undisturbed areas around the constructed drill pads would be directed into ditches surrounding the drill pad and back onto undisturbed ground, consistent with best management practices for storm water. The pad surface would be graded to prevent the movement of storm water off the constructed site but rather into the reserve pit in accordance with the standards of the “Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (The Gold Book)” (Fourth Edition – Revised 2007) (BLM and Forest Service 2007).

Reserve pits would also be constructed in accordance with best management practices identified in the “The Gold Book” (Fourth Edition – Revised 2007) (BLM and Forest Service 2007) on each pad for the containment and temporary storage of water, drill cuttings and circulating drilling mud during drilling operations. Geothermal fluid produced from the well during flow testing would also drain to the reserve pit.

The reserve pits would be fenced with an exclosure fence on three sides and then fenced on the fourth side once drilling has been completed (approximately 45 days) to prevent access by persons, wildlife, or livestock (Figure 6). The fence would be built according to rangeland management specifications and would remain in place until pit reclamation begins. To prevent livestock, wildlife, and persons from becoming entrapped, one side of the reserve pit walls would
be sloped at an approximate 30 percent incline. The reserve pit would measure approximately 75 feet by 200 feet by 10 feet deep.

Once drilling is complete, the shoulders of the pad could be reclaimed, but the majority of the pad must be kept clear for ongoing operations and the potential need to work on or re-drill the well. See Section 2.5 for a description of reclamation procedures.

### 2.1.3 Well Drilling and Testing

Specific drilling information is provided in Table 4.

#### Table 4: Well Drilling Specifics

<table>
<thead>
<tr>
<th>Rig Type</th>
<th>Rig Height (feet)</th>
<th>Trucks Needed (on average)</th>
<th>Drilling Time (days)</th>
<th>Workers On-Site</th>
<th>Depth Drilled (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large rotary drilling rig</td>
<td>160-170</td>
<td>25+ tractor/trailer 8 small trucks</td>
<td>45²</td>
<td>Avg. = 9-10, Max = 18</td>
<td>~ 7,000</td>
</tr>
</tbody>
</table>

¹ Difficulties encountered during the drilling process, including the need to re-drill the well, could as much as double the time required to successfully complete each well.
² Drilling would be conducted 24 hours a day, 7 days a week.

The drilling supervisor and mud logger would typically sleep in a trailer (temporary ancillary facility) on the active drill site while the well is being drilled. The drilling crew may also live “on-site” during the drilling operations in a self-contained, mobile “bunkhouse” (temporary ancillary facility) (comparable in size to a double-wide trailer, containing sleeping quarters, galley, water tank, and septic tank) or portable trailers. These temporary ancillary facilities for the drilling crew would be placed on one of the drill sites not being actively drilled, or in the case of the first well to be drilled, quarters would be placed on the active well pad. Drilling crews typically include one drilling supervisor, one company man, one mud logger, one tool pusher, one derrickman, one motorman, and up to four floorhands. Alternatively, the drilling crew may acquire accommodations in Gerlach, depending on lodging availability.

“Blow-out” prevention equipment would be utilized while drilling below the surface casing. During drilling operations, a minimum of 10,000 gallons of cool water and 12,000 pounds of inert, non-toxic, non-hazardous barite (barium sulfate) would be stored at each well site for use in preventing uncontrolled well flow (i.e., “killing the well”), as necessary.

The well bore would be drilled using non-toxic, temperature-stable drilling mud composed of a bentonite clay-water or polymer-water mix for all wells. Variable concentrations of additives would be added to the drilling mud as needed to prevent corrosion, increase mud weight, and prevent mud loss. Some of the mud additives may be hazardous substances, but they would only be used in low concentrations that would not render the drilling mud toxic. Additional drilling mud would be mixed and added to the mud system as needed to maintain the required quantities.

Target depths at the Gerlach geothermal field range between 1,500 and 7,500 feet below ground surface but may change pending results of well testing. Further, depending on the subsurface targets, directional drilling may be employed to intercept geothermal targets. Well casing would meet all requirements outlined in Geothermal Resources Operational Order No. 2, where the
surface casing string would be set at no less than 200 feet to prevent co-mingling of the geothermal fluids with underground aquifers.

Each well may need to be worked over or redrilled. Well redrilling may consist of: 1) reentering and redrilling the existing well bore; 2) reentering the existing well bore and drilling and casing a new well bore; or 3) sliding the rig over a few feet on the same well pad and drilling a new well bore through a new conductor casing. While the drill rig is still over the well, the residual drilling mud and cuttings would be flowed from the well bore and discharged to the reserve pit.

**Short-Term Well Testing**

Each short-term well test, lasting approximately three to five days on average, would consist of flowing the well into the reserve pit or portable steel tanks brought onto the well site while monitoring geothermal fluid temperatures, pressures, flow rates, chemistry, and other parameters. An “injectivity” test may also be conducted by injecting the produced geothermal fluid from the reserve pit or steel tanks back into the well and the geothermal reservoir. The drill rig would likely be moved from the well site following completion of the short-term test(s). Each short-term well test is expected to flow approximately 1.5 million gallons of geothermal brine.

**Long-Term Well Testing**

One or more long-term flow test(s) of each well drilled would likely be conducted following the short-term flow test(s), to more accurately determine long-term well and geothermal reservoir productivity. The long-term flow test(s), each lasting between seven and 30 days, would be conducted by pumping the geothermal fluids from the well through on-site test equipment, closed to the atmosphere (using a line shaft turbine pump or electric submersible pump), to the reserve pit. A surface booster pump would then pump the residual produced geothermal water/fluid through a temporary eight to ten-inch diameter pipeline to either inject the fluid into one of the other geothermal wells drilled within the Project area or to the reserve pit on another well pad.

The temporary pipeline would be carried by workers and hand laid either “cross-country” or on the surface of the disturbed shoulders on the access roads connecting the full-size geothermal wells (as required, roads would be crossed by trenching and burying the temporary pipe in the trench). The temporary pipeline typically consists of aluminum or high-density polyethylene (HDPE) piping appropriately rated for the temperatures and pressures for the long-term flow test(s). Temporary pipeline connections are bolted or welded together and Ormat personnel and/or contractor(s) would be on-site monitoring the temporary pipeline and wells during the long-term flow test(s). The on-site test equipment would include standard flow metering, recording, and sampling apparatus. Each long-term well test is expected to flow approximately 15 million gallons of geothermal brine.

**2.2 Site Access and Road Construction**

Principal access to the Project area is from NV-447 and County Road 34. The Project area is traversed by numerous roads and “two-tracks.” All existing access roads would require an
additional 10 feet width of surface disturbance for road improvement. Well sites requiring new access roads would require a total of 20 feet width of surface disturbance in order to accommodate a 15-foot-wide drivable roadbed. New and improved access roads would be constructed using a dozer and/or road grader. New and/or improved access roads would be required as identified in Table 5 (Figures 3 and 4):

Table 5: Road Construction Lengths and Disturbance Totals

<table>
<thead>
<tr>
<th>Access Road Type</th>
<th>Road Length (feet)</th>
<th>Road Length (miles)</th>
<th>Disturbance (acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Road</td>
<td>4,398</td>
<td>0.8</td>
<td>2.0</td>
</tr>
<tr>
<td>Improved Road</td>
<td>10,602</td>
<td>2.0</td>
<td>2.4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15,000</strong></td>
<td><strong>2.8</strong></td>
<td><strong>4.4</strong></td>
</tr>
</tbody>
</table>

The total estimated area of surface disturbance required for new access road construction, assuming a 15-foot-wide drivable roadbed (20-foot-wide total width of surface disturbance) would be approximately 2.0 acres (4,398 feet of road * 20-foot-wide surface). Total estimated area of surface disturbance required for improvements to existing access roads would be approximately 2.4 acres (10,602 feet of existing road * 10-foot-wide additional surface disturbance). In sum, it is estimated that a total of 4.4 acres of disturbance would be required for access road construction within the Project AOI.

Constructed access roads crossing existing drainages may require installation of culverts. Culvert installation would follow BLM design criteria and would be constructed pursuant to standards established in the Gold Book (Fourth Edition - Revised 2007). If required, Ormat would obtain all appropriate permits for site access with the Nevada Department of Transportation, prior to exploration activities.

2.3 Water Requirements and Source

Water required for well drilling could range up to as much as 35,000 gallons per day. Water requirements for grading, construction, and dust control would average substantially less, at around 6,000 gallons per day. One or more portable water tank(s), holding a combined total of at least 10,000 gallons, would be maintained on the well sites during drilling operations.

Water necessary for these activities would be obtained from shallow water well(s) drilled from one or more of the proposed drill sites, as approved by the BLM and under a waiver for the temporary use of ground water from the Nevada Department of Water Resources (Nevada Administrative Code [NAC] 534.444), where each well location would be determined upon individual need, likely at a pad central to the Project area. Each water well would be temporary, drilled by a licensed water well driller and cemented with seven-inch casing to provide a sanitary seal at the surface. The well would be drilled down to a productive interval of sands, gravels, or fractures (estimated at between 100 and 1,000 feet below ground surface). An electric submersible pump on four-inch column pipe would then be run to below the producing interval. The well would be plugged and abandoned in accordance with NAC 534.420, with cement plugs across the bottom of the casing and, if needed, with additional plugs to isolate individual producing zones if identified as present. No additional surface disturbance would be associated
with the drilling of each temporary water well because, if drilled, they would be located on existing geothermal well pads.

Alternatively, water could be obtained from an established private ranch source and trucked to each construction or drill site, or as a bulk water purchase from the Gerlach General Improvement District (GGID), pending contract and availability from the GGID.

### 2.4 Aggregate Requirements and Source

Aggregate material would be obtained from a private aggregate pit located east of Transfer Station Road ([Figures 3 and 4, Table 6](#)), or another local source, if found. If the private aggregate pit is used for the Project, the existing pit would be expanded by up to five acres.

**Table 6: Existing Aggregate Sources**

<table>
<thead>
<tr>
<th>Aggregate Source Area</th>
<th>Township, Range, Section</th>
<th>Approximate UTM Coordinates (NAD83)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregate Pit (Existing Private Source)</td>
<td>T.32N., R.23E., Sec. 15</td>
<td>Easting (m): 299851 Northing (m): 4503528</td>
</tr>
</tbody>
</table>

Drill pads and access roads were selected to minimize the need for aggregate application, with the majority of the proposed well pads consisting of an approximate even mix of cut and fill to make a stable surface. At most, each drill pad (exclusive of the reserve pit) would be covered with up to six inches of gravel. While the Project would likely utilize much less, a conservative estimate for the total aggregate required for well pad construction is estimated at 38,000 cubic yards (approximately 2,000 cubic yards/pad * 19 pads).

Access roads would be covered with up to four inches of gravel, as necessary to create an all-weather surface and to prevent the formation of ruts. Total aggregate required for access road construction is estimated at 2,778 cubic yards (approximately 32.8 miles of access roads * 15-foot width * 4-inch depth).

Total aggregate required for the well pad and access road construction is estimated at 40,778 cubic yards.
2.5 Personnel

A temporary drilling crew of approximately 10 workers would be at the active drill site for the entire duration of well drilling (approximately 45 days). The drilling crew is anticipated to consist of current Ormat employees and contractor(s) that would travel to the Project site for exploration activities, as needed.

2.6 Surface Reclamation

After the well drilling and testing operations are completed, the liquids from the reserve pits would either naturally evaporate or be removed as necessary to reclaim the reserve pits. The solid contents remaining in each of the reserve pits, typically consisting of non-hazardous, non-toxic drilling mud and rock cuttings, would be tested to confirm that they are not hazardous. Typical tests may include the Toxicity Characteristic Leaching Procedure (United States Environmental Protection Agency [EPA] Method 1311), tested for heavy metals; pH (EPA method 9045D); Total Petroleum Hydrocarbons/Diesel (EPA Method 8015B); and Oil and Grease (EPA Method 413.1). Non-hazardous and non-toxic drilling mud and cuttings would be buried in the reserve pit, and any drilling mud and/or cuttings identified as hazardous and toxic would be disposed of according to Nevada Division of Environmental Protection (NDEP) regulations.

If a well is judged by Ormat to have no commercial potential, it may continue to be monitored for the Project, but would be plugged and abandoned in conformance with the well abandonment requirements of the BLM and Nevada Division of Minerals (NDOM). Abandonment typically involves filling the well bore with clean, heavy abandonment mud and cement until the top of the cement is at ground level, which is designed to ensure that fluids would not move across these barriers into different aquifers. The well head (and any other equipment) would then be removed, the casing cut off well below ground surface, and the hole backfilled to the surface.

The portions of the cleared well sites not needed for operational and safety purposes (i.e., the “shoulders” of the pad) would be recontoured to a final or intermediate contour that would blend with the surrounding topography as much as possible. Areas able to be reclaimed would be ripped, tilled, or disked on contour, as necessary and reseeded with native grasses and forbs. The stockpiled topsoil would also be spread on the area to aid in revegetation. Road reclamation would involve recontouring the roads back to the original contour and seeding with a BLM-approved seed mix.
3.0 **ENVIRONMENTAL PROTECTION**

3.1 **Adopted Environmental Protection Measures**

Ormat would comply with all special lease stipulations attached to leases NVN55718, NVN75228, NVN98640, NVN98641, and NVN100029, which are applicable to Project operations. In addition to measures described in the following sections, Ormat would also institute the following measures:

- Water would be applied to the ground during the construction and utilization of the drill pads, access roads, and other disturbed areas as necessary to control dust.
- Portable chemical sanitary facilities would be available and used by all personnel during periods of well drilling and/or flow testing, and construction. These facilities would be maintained by a local contractor.
- To prevent the spread of invasive, nonnative species, all vehicles, heavy earth-moving construction equipment, mobile trailers and RV campers brought to and used on the Project site would go through high pressure washing of the entire vehicle/unit at a commercial wash station prior to arriving and/or being used on the Project site.
- If needed, certified noxious weed free hay and straw bales would be purchased and used on the Project site.
- Seed mixes for the rehabilitation and/or re-vegetation of all disturbed areas related to this Project would be certified as weed-free, per BLM standards.
- All construction and operating equipment would be equipped with applicable exhaust spark arresters. Fire extinguishers would be available on the active sites. Water that is used for construction and dust control would be available for firefighting. Personnel would be allowed to smoke only in designated areas.
- Following Project construction, areas of disturbed land no longer required for operations would be reclaimed to promote the reestablishment of native plant and wildlife habitat.
- Any areas containing eligible and unevaluated cultural sites would be avoided, or the potential for impacts mitigated in a manner acceptable to the BLM. Ormat employees, contractors, and suppliers would be reminded that all cultural resources are protected and if uncovered shall be left in place and reported to the Ormat representative and/or their supervisor.
- The wellheads would each be painted a color that blends with the surrounding landscape to minimize visibility.

3.2 **Fire Prevention and Control**

**Fire Contingency Plan**

1. Small fires may occur around the well pad during drilling and/or testing operations. These fires would be controlled by rig personnel utilizing on-site firefighting equipment.
2. The BLM Winnemucca District Office (775.623.1500) would be notified of any wildland fire, even if the available personnel can handle the situation or the fire poses no threat to the surrounding area. Additionally, the Sierra Front Interagency Dispatch would be notified (775.883.5995).

3. A roster of emergency phone numbers would be available on-site so that the appropriate firefighting agency can be contacted in case of a fire.

4. All vehicles shall carry at a minimum a shovel and five gallons of water (preferably in a backpack pump), in addition to a conventional fire extinguisher.

5. Adequate firefighting equipment (a shovel, a Pulaski, standard fire extinguisher(s), and at least a 100-gallon water tank with pump) shall be kept readily available at each active drill site.

6. Vehicle catalytic converters (on vehicles that would enter and leave the drill site on a regular basis) shall be inspected often and cleaned of all flammable debris.

7. All cutting/welding torch use, electric-arc welding, and grinding operations shall be conducted in an area free, or mostly free, from vegetation. At least a 100-gallon water tank with pump and shovel shall be on hand to extinguish any fires created from sparks. A welding tent would be used, as appropriate. At least one person in addition to the cutter/welder/grinder shall be at the work site to promptly detect fires created by sparks. Ormat would comply with all OSHA requirements for metal work, as applicable to the Project.

8. Personnel would be responsible for being aware of and complying with the requirements of any fire restrictions or closures issued by the BLM Winnemucca District Office, as publicized in the local media or posted at various sites throughout the field office district.

3.3 Surface and Ground Water Protection

Exclusive of short- and long-term flow testing wherein fluids would be discharged to the reserve pit, geothermal fluids would not be discharged to the ground under normal operating conditions. Also, each drill pad is graded towards the reserve pit to prevent movement of storm water runoff from the pad. Further, geothermal wells are cased to prevent co-mingling of the geothermal fluids with underground aquifers.

Each drill pad would be prepared to create a level pad for the drill rig and a graded surface for the support equipment. Storm water runoff from undisturbed areas around the constructed drill pads would be directed into ditches surrounding the drill pad and back onto undisturbed ground, consistent with best management practices for storm water. The site would be graded to prevent the movement of storm water from the pad off the constructed site to areas of natural drainage in conformance with “The Gold Book” standards (BLM and Forest Service 2007). A stormwater pollution prevention plan would be developed and implemented for the Project per the NDEP Bureau of Water Pollution Control requirements.
3.4 Wildlife Protection

Erosion control/soils protection measures after construction would include revegetation and periodic maintenance. Disturbed areas that would not be used after construction would be revegetated with the proper seed mixture and planting procedures prescribed by the BLM. Topsoil may be stockpiled on previously disturbed areas and applied to enhance areas to be reclaimed by revegetation.

To prevent undue degradation and removal of habitat, cover and food, existing roads would be used whenever possible and cross-country travel would be restricted to designated construction areas. Speed limits of 35 miles per hour would be observed on all unpaved roads in the Project area in order to minimize dust and avoid collision and incidental death of local wildlife.

To prevent a potential violation of the Migratory Bird Treaty Act and per lease stipulations, Ormat would contract a qualified wildlife biologist to conduct a preconstruction survey for nesting migratory birds during the breeding season (March 1 – August 31) and prior to any ground clearing or other surface disturbance. The survey would include the proposed footprint of disturbance and an appropriate-sized buffer area. If disturbance is not completed within the timeframe established as a condition in the Geothermal Drilling Permit for the preconstruction survey, an additional survey may be required after consultation with the BLM. If active nests are found, and in consultation with the BLM, an appropriately sized buffer would be established to exclude any disturbance around the nest until the nesting attempt has been completed. If active nests are not found, surface disturbance activities would occur within the survey validity timeframe.

3.5 Cultural Resource Protection

Cultural resource surveys have been conducted. In consultation with BLM and with Nevada State Historic Preservation Office concurrence, any areas which contain cultural resources of significance or whose eligibility for inclusion on the National Register of Historic Places is unevaluated, would be mitigated or “treated” and recorded as appropriate. Ormat employees, contractors, and suppliers would be reminded that all cultural resources are protected and if uncovered, the resource shall be left in place, work would cease, and notification would be made to the Ormat representative and the appropriate BLM authorized officer, by telephone, with written confirmation to follow, immediately upon such discovery.

3.6 Minimization of Air Pollution

Ormat would comply with any air quality requirements prescribed by the Washoe County Health District–Air Quality Management Division (WCHD-AQMD). Water would be applied to the ground during the construction and utilization of the drill pads and access roads, as necessary to control fugitive dust.

Ormat would obtain a Dust Control Permit with the WCHD-AQMD and implement the required actions to minimize fugitive dust emissions during the well drilling and construction phases of the Project.
3.7 Minimization of Noise Pollution

To abate noise pollution, mufflers would be used on all drilling rig engines. Each well pad may have one rock muffler. Rock mufflers are approximately 30 feet tall with a diameter of about 10 feet and are used to attenuate steam venting noise during well testing.

3.8 Minimization of Hazards to Public Health and Safety

Construction and operation activities would be conducted in a manner to avoid creating any hazards to public health and safety. Injury contingency, spill or discharge contingency, and hydrogen sulfide (H₂S) contingency plans are provided below:

Injury Contingency Plan

Drilling operators are required by law to safety train workers and to have first aid equipment on-site. Ormat supervises the drilling operations to ensure that all safety procedures and best safety practices are in place and adhered to throughout the drilling program. Ormat’s drilling operations are required to be in compliance with all existing laws pertaining to safety and environmental protection. Safety meetings are held prior to any major operation, such as running casing, cementing, or unloading the well. Drilling contractors would typically have daily safety meeting with crews and review any issues that could come up during the 12 hours that each crew is at work.

In the event injuries occur in connection with an Ormat operation, specific and immediate attention would be given, along with proper transportation to a medical facility.

- Ambulance (911)
- Saint Mary’s Regional Medical Center
  235 W 6th Street
  Reno, NV 89503

Spill or Discharge Contingency Plan

1) Potential Sources of Accidental Spills or Discharges
   a) Geothermal Fluid
      i) In the event of an accidental geothermal fluid spill or discharges, blowout prevention equipment would be utilized to shut down the flow from the wellhead. To protect groundwater resources, it is an industry standard practice to case geothermal wells in the subsurface to prevent co-mingling of the geothermal fluids with groundwater aquifers. Depth of the casings are determined by the hydrogeology of the area. An accidental discharges or spills could result from any of the following:
         (1) Loss of well control (blowout);
         (2) Pipeline leak or rupture; or
         (3) Leakage from test tank.
b) Drilling Muds
   i) Muds are a mixture of water, non-toxic chemicals and solid particles used in the drilling operations to lubricate and cool the bit in the hole, to carry cuttings out of the hole, to maintain the hole condition and to control formation pressure. Drilling muds are prepared and stored in metal tanks at the drilling site. Waste drilling mud and cuttings are discharged into the reserve pit, which is open and is adequately sized to hold the volume necessary for the operation. Accidental discharges of drilling mud could occur by:
   (1) Overflow of the reserve pit;
   (2) Reserve pit wall seepage or wall failure;
   (3) Discharge from equipment failure on location; or
   (4) Shallow lost circulation channeling to the surface.

c) Lubricating or Fuel Oils and Petroleum Products
   i) To minimize the potential for spills, all petroleum products on-site are labeled, stored, and handled in conformance with applicable federal and state requirements. All materials except diesel fuel are stored in the original shipping containers. Diesel fuel is stored in on-board tanks on the drill rig and replenished from a bulk tank truck using an electric transfer pump and hard lines with secondary containment used during drilling operations in case of accidental spills. Supervisors trained in spill prevention, containment and clean-up are on-site, 24 hours a day. Potential locations for accidental spills are:
   (1) Drilling equipment and machinery at and around the drilling location;
   (2) Other miscellaneous equipment and machinery at well site and roads;
   (3) Storage areas; and
   (4) Equipment servicing areas.

d) Construction/Maintenance Debris
   i) Trash shall be contained on-site and hauled to an approved landfill. Burial of trash on-site shall not be permitted.

e) Plan for Cleanup and Abatement
   i) In the event of discharge of formation fluids, drilling muds or petroleum products, the person responsible for the operation would make an immediate investigation, then contact the Drilling Supervisor and advise of the spill. The Drilling Supervisor would in turn call out equipment, regulate field operations, or do other work as applicable for control and cleanup of the spill, as follows:

   (1) Action - Small, Containable Spill
   If the spill is small (i.e., less than 25 gallons) and easily containable without endangering the watershed, the Drilling Supervisor would direct and supervise complete cleanup and return to normal operations.

   (2) Action - Large or Uncontainable Spill
   If the spill is larger than 25 gallons, or is not easily contained, endangers, or has entered the watershed, the Drilling Supervisor would proceed to take necessary
action to curtail, contain and clean up the spill, as above, and notify personnel as listed below.

(3) Notification
The Drilling Supervisor would, as quickly as practicable:
(a) Call out contractor(s), as required.
(b) Notify the Ormat Project Manager.
(c) Notify the local and state law enforcement agencies if the public safety is threatened.
(d) The Ormat Project Manager would notify the following as soon as practical and work closely with them in all phases of the curtailment, containment, and cleanup operations:

<table>
<thead>
<tr>
<th>Entity</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDOM</td>
<td>State of Nevada</td>
<td>400 W. King</td>
</tr>
<tr>
<td></td>
<td>Caron City, NV 89703</td>
<td>775.684.7040</td>
</tr>
<tr>
<td>NDEP</td>
<td>Division of Emergency Management</td>
<td>2525 Carson St.</td>
</tr>
<tr>
<td></td>
<td>Carson City, NV 89711</td>
<td>775.687.4240</td>
</tr>
<tr>
<td>BLM</td>
<td>Winnemucca District Office</td>
<td>5100 E. Winnemucca Blvd.</td>
</tr>
<tr>
<td></td>
<td>Winnemucca, NV 89445</td>
<td>775.623.1500</td>
</tr>
<tr>
<td>National Response Center</td>
<td></td>
<td>800.424.8802</td>
</tr>
</tbody>
</table>

The Drilling Supervisor would also advise local population and affected property owners, if spill affects residents or property.

f) Specific Procedures
(1) For geothermal fluid spills:
Contain spillage with dikes if possible and haul to disposal site by vacuum or water trucks or dispose of in a manner acceptable to the NDOM and BLM.
(2) For drilling mud:
Repair reserve pit or contain with dikes. Haul liquid to another reserve pit, available tanks, or approved disposal site.
(3) For petroleum products:
Contain spill with available manpower. Use absorbents and dispose of same in approved disposal area. spills of petroleum products in excess of 25 gallons must be reported to NDEP as soon as possible, but no later than the end of the first working day of the release at:
- In-state: 775.687.9485
- Out-of-state: 888.331.6337

Page 15 of 24
For (1) through (3) above, Ormat would have the source of spill repaired at the earliest practical time and continue working crews and equipment on cleanup until all concerned agencies are satisfied.

g) Confirm notification to agencies and regulatory bodies.
Telephone notification shall be confirmed by the Ormat Project Manager in writing, within two weeks of telephone notification. Written confirmation would contain:
(1) Reason for the discharge or spillage.
(2) Duration and volume of discharge or spillage.
(3) Steps taken to correct problem.
(4) Steps taken to prevent recurrence of problem.

Hydrogen Sulfide Contingency Plan

Non-condensable gas (NCG) concentrations within geothermal systems can vary greatly and depend on the temperature, geologic setting, and rock types. The Project is considered a non-magmatic, low-enthalpy type geothermal system so it is reasonable to assume H₂S concentrations are low and do not need abatement. During exploration drilling, well control practices keep the geothermal fluids in the reservoir so there is no exposure pathway. During flow tests, brine is directed to a flash vessel which directs steam and exsolved NCGs, such as H₂S, upwards and well above head level. Additionally, the steps below would be taken to help prevent exposure to H₂S during exploration drilling and testing:

1. Although there is very little chance that drilling in these moderate-temperature geothermal reservoirs would encounter substantial H₂S, continuous H₂S monitors would be on the rig floor and at the mud tanks and shaker to alert workers should elevated H₂S levels be detected. Personal H₂S monitors would be required for all onsite drilling personnel. Signs would be posted to inform workers and visitors of any potential issues.

2. Drilling parameters would be continuously monitored, and any changes in gas concentrations, formation pressures, or potential for flow are provided to the driller and supervisor. The blowout prevention equipment would be in place to shut off any unexpected gas flows. In the event any evidence of high gas concentrations are detected in the drilling fluids, the drilling fluids consultant would obtain materials and design a program to safely circulate out the gas bubble and to treat and remove any H₂S using caustic soda, peroxide, soda ash, lime, or other technology as appropriate.

Naturally Occurring Radioactive Materials (NORM)

There is no known source of elevated NORM at the Project, such as young marine shales or potassium-rich granitic bodies. The main rock units in the Project area include alluvium (minor sediments such as sandstone and siltstone) and granite. Additionally, exposure to NORM through geothermal scale should not be a consideration since there would be no long-term production through piping during this exploration phase of the Project.
4.0 REFERENCES


Gerlach Geothermal Exploration Project
Washoe County, Nevada, USA

Figure 1: Project Vicinity Map
Gerlach Geothermal Exploration Project
Washoe County, Nevada, USA

Figure 2: Federal Geothermal Lease Map
Gerlach Geothermal Exploration Project
Washoe County, Nevada, USA

Figure 3: Proposed Action Map (topo)
Figure 4: Proposed Action Map (aerial)

Legend
- Wellhead
- New Roads
- Improved Roads
- Wellpad
- Area of Interest
- Aggregate Pit
- Private
- Bureau of Land Management
- NHD Springs

Note: Proposed project components in accordance with Spidel et al., 2021.
Figure 5: Well Pad Layout and Design

Gerlach Geothermal Exploration Project
Washoe County, Nevada, USA

(Not to Scale)
Figure 6: Recommended Construction Standards for Exclosure Fences in Livestock Areas

Not to Scale
Appendix A: Federal Geothermal Lease Stipulations

NVN-55718
NVN-75228
NVN-98640
NVN-98641
NVN-100029
OFFER TO LEASE AND LEASE FOR GEOTHERMAL RESOURCES

The undersigned (see reverse) offers to lease all or any of the lands in item 2 that are available for lease pursuant to the Geothermal Steam Act of 1970 (30 U.S.C. 1501-1525).

Read Instructions Before Completing

1. Name
   San Emidio Resources Inc.

2. Surface managing agency if other than BLM:

3. Legal description of land requested (legal description by public domain and acquired lands):
   T.
   R.
   Meridian
   State
   County

4. Amounts received:
   Filing fee $ ___________________
   Rental fee $ ___________________

5. Land included in lease:

   T. 32 N., R. 23 E., MDM, Nevada, Washoe County
   sec. 09, all;
   sec. 10, W1/4NE1/4, E1/4SW1/4, NE1/4SW1/4, SE1/4;
   sec. 15, lots 1, 2, 3, E1/4NE1/4, W1/4SE1/4SW1/4;
   sec. 16, lot 1, NE1/4NE1/4.

   PARCEL NO. 3 - Gerlach KGRA

   Total acres in lease 1261.93
   Rental received $ 2504.00

In accordance with the above offer, or the previously submitted competitive bid, this lease is issued granting the exclusive right to drill for, extract, produce, remove, utilize, sell, and dispose of all the geothermal resources in the lands described in item 3 together with the right to build and maintain necessary improvements thereto, for a primary term of 10 years. Rights granted are subject to applicable laws, the terms, conditions, and enrolled stipulations of this lease, the Secretary of the Interior's regulations and formal orders in effect as of lease issuance and, when not inconsistent with lease rights granted or specific provisions of this lease, regulations and formal orders hereafter promulgated.

Type of lease:

☐ Noncompetitive
☒ Competitive
☐ Other

EFFECTIVE DATE OF LEASE JUL 01 1992

THE UNITED STATES OF AMERICA

Acting

Min. of Land & Minerals Operations (Title)

[Signature]

JUN 19 1992

(Title)
LEASE TERMS

Sec. 1. Rentals—Lessee shall be paid to proper office of lessee in advance of each lease year

valve there is production in commercial quantities from the leased land. Annual rental rates per acre shall be $1 for noncompetitive leases and $3 for competitive leases.

If lease or a portion thereof is converted to an approved competitive or unit plan which

includes a well capable of producing leased resources, and the plan contains a provision for

allocation of production, royalties shall be paid on the production allocated to this lease. However,

royalty rates shall continue to be due for those years not within a participating area.

Failure to pay annual rental, if due, on or before the anniversary date of this lease (or next

official working day if office is closed) shall automatically terminate this lease by operation of

law. Rentals may be suspended by the Secretary upon a sufficient showing by lessee.

Sec. 2. Royalties—Royalties shall be paid to proper office of lessee. Royalties shall be

computed in accordance with royalty rates and orders. Royalty rates on production are: 10 percent

for steam, heat, or energy; 5 percent for hydroelectric; and 2 percent for de minimis water.

Lessee reserves the right to establish reasonable minimum values on production after giving

notice to lessor and as are customary in the area. Royalties shall be due and payable on the last day

of the month following the month in which production occurred.

A minimum royalty shall be due for any lease year beginning on or after the commencement

of production in commercial quantities in which royalty payments aggregate less than $1 per

acre. Lessee shall pay such differences at the end of lease year. This minimum royalty may be

waived, suspended, or reduced, and the above royalty value may be reduced for all or portions

of this lease if the Secretary determines that such action is necessary to encourage the greatest

stimulus recovery of the leased resources, or is otherwise justified.

Sec. 3. Bonds—Lessee shall file and maintain any bond required under regulations.

Sec. 4. Diligence, use of development, maintenance, and drainage—Lessee shall perform diligent

operations and development as required in accordance with the lease. Lessee shall maintain and

repair such structures as are required for production and elsewhere on the lease. Lessee shall

maintain all structures in good condition and repair, and shall remove all structures which

are unsafe or hazardous or which endanger the public, prior to abandonment of the lease.

Sec. 5. Documents, evidence, and inspections—Lessee shall file with proper office of lessor,

not later than 30 days after effective date thereof, any contract or evidence of other arrange-

ments for the sale or disposal of production. As such time and in such form as lessor may prescribe,

lessee shall furnish detailed statements showing accuracy and quality of all products removed

and sold, provided therefore, any amount used for processing or transportation or other

use or resale of such production and shall submit to lessor all records and accounts showing

sales and receipts therefrom.

In the form prescribed by lessee, lessee shall keep a daily drilling record, a log, and complete

information on all surveys and locations and keep a record of subsurface investigations and

surveys compiled by lessee when required. Lessee shall make open at will at all reasonable times for inspection

by any authorized officer of lessor, the lessee's premises and all wells, improvements, machinery, and

subsurface facilities, and all books, accounts, maps, and records relative to operations, surveys,

or investigations on or in the leased lands. Lessee shall maintain copies of all contracts, take

agreements, recording agreements, and documentation as in titles, leases, or similar documenta-

tion and agreements and documents as in bolster cases of the lessee's accounts and

manufacturing, production, and transportation costs. All such records shall be maintained in lessor's accounting

office for future use by lessor. Lessee shall maintain records for 6 years after they are generated or, if an audit or

investigation is underway, until fulfillment of the obligation to maintain such records by lessee.

During excursions of lessee, information obtained under this section shall be kept in confiden-

t by lessee to accomplish the terms of this lease. To the normal consistent with lessee rights granted.

Sec. 6. Conduct of operations—Lessee shall conduct operations in a manner that minimizes

adverse impacts to the land, air, and water, to cultural, biological, visual, and other resources,

and to other land uses or uses. Lessee shall take reasonable measures deemed necessary by

lessee to accomplish the terms of this lease. To the normal consistent with lessee rights granted.

Sec. 7. Production of hydrocarbons—If the production, use, or conversion of geological resources

from leased lands is susceptible of producing a valuable hydrocarbon or byproduct, including

commercially de minimis water for beneficial use in accordance with applicable State water

laws, lessee may request substantial beneficial production or use thereof by lessee.

Sec. 8. Damage to property—Lessee shall pay lessor for damage to lessee's improvements,

and shall save and hold lessee harmless from all claims for damage or harm to persons or property

as a result of lease operations.

Sec. 9. Protection of diverse interests and equal opportunity—Lessee shall maintain a safe working

environment in accordance with standard industry practices and take measures necessary to

protect the health and safety of the public. Lessee reserves the right to ensure that production

is sold at reasonable prices and to prevent monopoly.

Lessee shall comply with Executive Order No. 11246 of September 24, 1965, as amended,

and with other laws, regulations, and orders which are in the interest of the Secretary of Labor

and pursuant thereto. Neither lessor nor lessee's subcontractor shall maintain segregated facilities.

Sec. 10. Transfer of lease interests and relinquishment of leases—As required by regulations,

lessee shall file with lessor, any assignment or other transfer of an interest in this lease. Lessee

may relinquish this lease or any legal subdivisions by filing in the proper office a written relinqui-

ishment, which shall be effective as of the date of filing, subject to the continued obligation of

the lessee and lessee to pay all accrued rentals and royalties.

Sec. 11. Delivery of products—To such time as all or a portion of this lease are removed to

lessee shall place all wells in condition for abandonment, reclaim the land as specified by lessee, and within a reasonable period of time, remove equipment and improvements and

deemed necessary by lessee for the preservation of productive wells or conditioned protection

of the environment.

Sec. 12. Proceedings in case of default—If lessee fails to comply with any provisions of this

lease, and the covenants continue for 30 days after written notice thereof, this lease shall

be subject to cancellation in accordance with the Act. However, if this lease includes lands known to

contain a well capable of producing in commercial quantities, it may be cancelled only by

judicial proceedings. This provision shall not be construed to prevent the cancellation by lessee

of any other legal and equitable remedy, including waiver of the default. Any such remedy or waiver

shall not prevent lessor's cancellation for the same default occurring on any other lease.

Whenever the lessee fails to comply in any manner with any of the provisions of this

Act, the lease, the regulations, or other orders, and immediate action is required, the lessor

may enter on the leased lands and take measures deemed necessary to correct the failure at the

expense of the lessee.

Sec. 13. Mails and documents in transit—Each obligation of this lease shall extend to and be

binding upon every beneficial interest in the lease, the heirs, successors, or assigns of the

particular party hereto.
OFFER TO LEASE AND LEASE FOR GEOHERMAL RESOURCES

George Vrana

558 S. 95th Street

Oak Lawn, IL 60453

RECEIVED

7:30 A.M., OCT 2 2001

NEVADA STATE OFFICE

INDIO, NEVADA

Parcel No. NV-07-01-09-008

T. 12 N., R. 23 E., MDM, Nevada

Sec. 02, lots 1-4, SW1/2, SE1/4, NE1/4

Sec. 01, lots 1-4, SW1/2, SE1/4

Sec. 04, lots 1-4, SW1/2, SE1/4

T, 10, lot 1, ENE, WNW, NW1/4

163.45 Acres

Washoe County

Test areas noted for

Borning & Filling

DO NOT WRITE BELOW THIS LINE

Service

Derek

County

INPUT

10/1/2000

Derek

10/2/2000

State Director, Mineral Management

EXHIBIT A

George Vrana

363 W 96th St.

Kewanee, IL 61443
DOCUMENT PAID

14

LAWYER

14

Not by

14

George

14

Jaume

14

LAWYER

14

The terms and conditions of this agreement are as follows:

Sec. 1. Agreement—The parties agree to the following:

(a) The parties will...;

(b) The parties will...

Sec. 2. Termination—This agreement may be terminated at any time by...

Sec. 3. Confidentiality—The parties agree to maintain the confidentiality of...

Sec. 4. Dispute Resolution—Any disputes arising under this agreement shall be resolved through...

Sec. 5. Entire Agreement—This agreement constitutes the entire agreement between the parties...

IN WITNESS WHEREOF, the parties have executed this agreement as of the date first above written.

[Signature]

[Signature]

[Date]

[Date]
CONTINGENCY RIGHTS STIPULATION

The Bureau of Land Management has reviewed existing information and planning documents and, except as noted in other attached stipulations, issues of concern with respect to development, subject to the controls of applicable laws and regulations and the lease terms and conditions, are not placed on the leased lands. However, specific development activities could not be identified prior to lease issuance since the nature and extent of geological resources were not known and specific stipulations have not been proposed. The lessee is hereby made aware that consistent with 43 CFR 3200.1, all post-lease activities will be subject to appropriate environmental review and may be subject to the need for formal authorization or regulatory requirements on other land use or resources would result.

Sage Grouse Stipulations for Geothermal Operations: These stipulations are based on the existing Sage grouse Management Guidelines for Nevada and in all cases refer to known habitat except as noted.

Known breeding habitat and Leach February through June, but may vary on site-specific basis. Avoid all activities within 3.1 km. (2 miles) of known leach during the nesting season. Males through May, or as determined by Field Office and Wildlife Personnel. NSO within 1 km. (0.6 miles) of known leach all times.

Nesting Habitat and Breeding Rearing Habitats: (April through August per Interior NV Guidelines) Within 6 miles of the maximum of 1.1 miles per guidelines.

Known: Avoid all development or operation activity during the nesting and brood-rearing season with 1 km. (0.6 miles) of known habitat. Where possible, NSO of any tent on such sites during the specified period.

Potentially avoid permanent occupancy of potential habitat where possible.

Winter Habitats: (October through March)

Known: Avoid all development or operation activity during the wintering season with 1 km. (0.6 miles) of known habitat. Where possible, NSO of any structure such sites during the specified period.

Potentially avoid permanent occupancy of potential habitat where possible.

Geothermal Sage Grouse Stipulations: Prior to entry on any lease areas that include known or potential habitat, the lessee (operator) shall contact the appropriate BLM Authorized Officer to determine any proposed activity. All project plans and potential impact analyses shall be submitted for consultation by the BLM. All surface disturbances that occur in potential or known habitat shall be maintained at a scale as small as possible to such a way as to result in conditions suitable for sage grouse habitat.

SIGNED

BLM Oregon State Office

RENO, NEVADA

When Required

[Signature]

Date

George Yeager

5618 W. 85th St.

Oak Lawn, IL 60453
The undersigned (see page 2) offers to lease all or any of the lands in item 2 that are available for lease pursuant to the Geothermal Steam Act of 1970, as amended (30 U.S.C. 1001-1025).

### READ INSTRUCTIONS BEFORE COMPLETING

<table>
<thead>
<tr>
<th>1. Name</th>
<th>1a. Street</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ormat Nevada Inc</td>
<td>6140 Plumas St</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1b. City</th>
<th>1c. State</th>
<th>1d. Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reno</td>
<td>NV</td>
<td>89519</td>
</tr>
</tbody>
</table>

2. Surface managing agency if other than BLM: ___________________________ Unit/Project:

Legal description of land requested (segregate by public domain and acquired lands): Enter T., R., Meridian, State and County

Future rental payments must be made on or before the anniversary date to:
Office of Natural Resources Revenue (ONRR)

<table>
<thead>
<tr>
<th>Amount remitted:</th>
<th>Processing Fee $</th>
<th>Rental Fee $</th>
<th>Total $</th>
</tr>
</thead>
</table>

Total Acres Applied for ___________________________
Percent U.S. interest ___________________________

DO NOT WRITE BELOW THIS LINE

3. Land included in lease: Enter T., R., Meridian, State and County

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec. 024 SW;</td>
<td>Sec. 031 LOTS 6-10;</td>
<td>Sec. 034 NE, S2;</td>
</tr>
<tr>
<td>025 S2SW, SE;</td>
<td>031 SE;</td>
<td>035 ALL;</td>
</tr>
<tr>
<td>025 NE N2NW, SENW, NESW;</td>
<td>032 SW;</td>
<td>036 ALL;</td>
</tr>
<tr>
<td>026 S2SW, S2SE;</td>
<td>033 SE;</td>
<td></td>
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</tbody>
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Total Acres in Lease 3351.900
Rental Retained $ 6704.00

In accordance with the above offer, or the previously submitted competitive bid, this lease is issued granting the exclusive right to drill for, extract, produce, remove, utilize, sell, and dispose of all the geothermal resources in the lands described in Item 3 together with the right to build and maintain necessary improvements thereupon, for a primary term of 10 years and subsequent extensions thereof in accordance with 43 CFR subpart 3207. Rights granted are subject to: applicable laws; the terms, conditions, and attached stipulations of this lease; the Secretary of the Interior’s regulations and formal orders in effect as of lease issuance; and, when not inconsistent with the provisions of this lease, regulations and formal orders hereafter promulgated.

### THE UNITED STATES OF AMERICA

BY

Kemba K. Anderson
(Signing Official)

(Printed Name)

Chief, Branch of Mineral Resources, Fluids

**OCT 16 2019**

EFFECTIVE DATE OF LEASE

Check if this is a converted lease [ ]

EFFECTIVE DATE OF LEASE CONVERSION

---

(Continued on page 2)

LESSEE
LEASE TERMS

Lease must keep open at all reasonable times for inspection by any authorized officer of lessor, the leased premises and all utilities, improvements, machinery, and fixtures thereof, and all books, accounts, maps, and records relative to operations, surveys, or investigations on or in the leased lands. Lessor must maintain copies of all contracts, sales agreements, accounting records, billing records, invoices, gross proceeds and payment data regarding the sale, disposition, or use of geological resources, byproducts produced, and the sale of electricity generated using resources produced from the lease, and all other information relevant to determining royalties or direct use fees. All such records must be maintained in Lessor's accounting offices for future audit by lessor and produced upon request by lessor or lessor's authorized representative or agent. Lessor must maintain required records for 6 years after they are generated or, if an audit or investigation is underway, until release of the obligation to maintain such records by lessor.

Sec. 6. Conduct of operations—Lessor must conduct operations in a manner that minimizes adverse impacts to the land, air, and water, to cultural, biological, visual, and other resources, and to other land users or uses. Lessor must take reasonable measures deemed necessary by lessor to accomplish the intent of this section. To the extent consistent with lessor rights granted, such measures may include, but are not limited to, modification to zoning or design of facilities, timing of operations, and specification of interim and final reclamation measures. Lessor reserves the right to continue existing uses and to authorize future uses upon or in the leased lands, including the approval of easements or rights-of-way. Such uses will be conditioned so as to prevent unnecessary or unreasonable interference with rights of lessor. Prior to disturbing the surface of the leased lands, lessor must consult lessor to be apprised of procedures to be followed or modifications or reclamation measures that may be necessary. Awa is to be disturbed may require inventories or special studies to determine the extent of impacts to other resources. Lessor may require lessee to complete minor inventories or short-term special studies under guidelines provided by lessor. If, in the conduct of operations, threatened or endangered species, objects of historic or scientific interest, or substantial unanticipated environmental effects are observed, lessee must immediately contact lessor. Lessee must cease any operations that are likely to affect or take such species, or result in the modification, damage or destruction of such habitats or objects.

Sec. 7. Production of byproducts—If production, use, or conversion of geological resources from these leased lands is unsuitable for producing a valuable byproduct or byproducts, including commercially demineralized water for beneficial uses in accordance with applicable State water laws, lessor may require substantial beneficial production or use thereof by lessee.

Sec. 8. Damages to property—Lessee must pay lessor for damage to lessor's improvements, and must save and hold lessor harmless from all claims for damage to persons or property as a result of lease operations.

Sec. 9. Protection of diverse interests and equal opportunity—Lessor must maintain a safe working environment in accordance with applicable regulations and standards and industry practices, and take measures necessary to protect public health and safety. Lessor reserves the right to ensure that production is sold at reasonable prices and to prevent monopoly. Lessor must comply with Executive Order No. 11346 of September 24, 1965, as amended, and regulations and relevant orders of the Secretary of Labor issued pursuant thereto. Neither lessee nor lessor’s subcontractor may maintain segregated facilities.

Sec. 10. Transfer of lease interests and relinquishment of lease—As required by regulations, lessee must file with lessor any assignment or other transfer of an interest in this lease. Subject to the requirements of 43 CFR subpart 3213, lessor may relinquish this lease or any legal subdivision by filing in this proper office a written relinquishment, which will be effective as of the date BLM receives it, subject to the continued obligation of the lessee to assure that production is sold at reasonable prices and to prevent monopoly. Lessor must comply with Executive Order No. 11346 of September 24, 1965, as amended, and regulations and relevant orders of the Secretary of Labor issued pursuant thereto. Neither lessee nor lessor’s subcontractor may maintain segregated facilities.

Sec. 11. Delivery of premises—At such time as all or portions of this lease are terminated, lessor shall place all wells in condition for suspension or abandonment, reclaim the land as specified by lessor, and within a reasonable period of time, remove equipment and improvements not deemed necessary by lessor for preservation of producible wells or continued protection of the environment.

Sec. 12. Proceeding in case of default—If lessor fails to comply with any provisions of this lease or other applicable requirements under 43 CFR 3200.4, and the noncompliance continues for 30 days after written notice thereof, this lease will be subject to termination in accordance with the Act and 43 CFR 3213. This provision will not be construed to prevent the effective by lessee of any other legal and equitable remedy or action, including waiver of the default. Any such remedy, waiver, or action will not prevent later termination for the same default occurring at any other time. Whenever the lessee fails to comply in a timely manner with any of the provisions of the Act, this lease, the regulations, or other applicable requirements under 43 CFR 3200.4, and immediate action in that respect by lessee may enter the leased lands and take measures deemed necessary to correct the default at the lessee’s expense.

Sec. 13. Helms and successors-in-interest—Each obligation of this lease will extend to and be binding upon, and every right hereof will inure to, his heirs, executors, administrators, successors, or assigns of the respective parties hereto.
INSTRUCTIONS

A. General

1. Items 1 and 2 need to be completed only by parties filing for a noncompetitive lease. The BLM will complete the front of the form for other types of leases. The BLM may use the “Comments” space under Item 3 to identify when the lessee has elected to make all lease terms subject to the Energy Policy Act of 2005 under 43 CFR 3200.7(a)(2) or 43 CFR 3200.8(b) (box labeled “converted lease” must also be checked); the lease is being issued noncompetitively to a party who holds a mining claim on the same lands as is covered by the lease under 43 CFR 3204.12; the lease is a direct use lease issued to a State, local, or tribal government (box at section 2(e) under Lease Terms must also be checked); the lease is a competitive lease with direct-use-only stipulations attached; or other special circumstances exist. A lessee who seeks to convert only the royalty rate of a lease under 43 CFR 3212.25 or who qualifies for a case-by-case royalty rate determination under 43 CFR 3211.17(b)(1)(i) should not use this form, but should instead use an addendum to the existing lease.

2. Entries must be typed or printed plainly in ink. The offeror must sign the form (Item 4) in ink.

3. An original and two copies of this offer must be prepared and filed in the proper BLM State Office. See regulations at 43 CFR 1821.10 for office locations.

4. If more space is needed, additional sheets must be attached to each copy of the form submitted.

B. Specific

Item 1—Enter the offeror’s name and billing address.

Item 2—Indicate the agency managing the surface use of the land and the name of the unit or project of which the land is a part. The offeror may also provide other information that will assist in establishing status of the lands. The description of land must conform to 43 CFR 3203.10. Total acres applied for must not exceed that allowed by regulations (43 CFR 3203.10; 43 CFR 3206.12).

Payments: For noncompetitive leases, the amount remitted must include the processing fee for noncompetitive lease applications (43 CFR 3204.10; 43 CFR 3000.12) and the first year’s rental at the rate of $1 per acre or fraction thereof. If the United States owns only a fractional interest in the geothermal resources, you must pay a prorated rental under 43 CFR 3211.11(d). The BLM will retain the processing fee even if the offer is completely rejected or withdrawn. To maintain the offeror’s priority, the offeror must submit rental sufficient to cover all the land requested. If the land requested includes lots or irregular quarter-quarter sections, the exact acreage of which is not known to the offeror, rental should be submitted on the assumption that each such lot or quarter-quarter section contains 40 acres. If the offer is withdrawn or rejected in whole or in part before a lease issue, the BLM will retain the rental remitted for the parts withdrawn or rejected.

The BLM will fill in the processing fee for competitive lease applications (43 CFR 3203.17; 43 CFR 3000.12) and the first year’s rental at the rate of $2 per acre or fraction thereof.

Item 3—The BLM will complete this space.

NOTICES

The Privacy Act of 1974 and the regulation at 43 CFR 2.48(d) provide that you be furnished with the following information in connection with information required by this geothermal lease application.

AUTHORITY: 30 U.S.C. 1000 et seq.

PRINCIPAL PURPOSE—The information is to be used to process geothermal lease applications.

ROUTINE USES: (1) The adjudication of the lessee’s rights to the land or resources. (2) Documentation for public information in support of notations made on land status records for the management, disposal, and use of public lands and resources. (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting uses or rights in public lands or resources. (4) Transfer to the appropriate Federal, State, local, or foreign agencies, when relevant to civil, criminal, or regulatory investigations or prosecutions.
BLM Nevada Standard Lease Notices  
(NV-B,C,E,L,W-00-A-LN)

These stipulations and notices apply to all parcels ALL LANDS and represent standard Best Management Practices for ensuring compliance with extant Federal Laws and resource protection.

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

Migratory Birds
The Operator is responsible for compliance with provisions of the Migratory Bird Treaty Act by implementing measures to prevent take of migratory birds. Operators should be aware that any ground clearing or other disturbance (such as creating cross-country access to sites, drilling, and/or construction) during the migratory bird (including raptors) nesting season (March 1 - July 31) risks a violation of the Migratory Bird Treaty Act. Disturbance to nesting migratory birds should be avoided by conducting surface disturbing activities outside the migratory bird nesting season. If surface disturbing activities must be implemented during the nesting season, a preconstruction survey for nesting migratory birds should be performed by a qualified wildlife biologist, during the breeding season (if work is not completed within a specified time frame, then additional surveys may be needed). If active nests are found, an appropriately-sized no surface disturbance buffer determined in coordination with the BLM biologist should be placed on the active nest until the nesting attempt has been completed. If no active nests are found, construction activities must occur within the survey validity time frame specified in the conditions of approval.

Cultural Resources and Tribal Consultation
This lease may be found to contain historic properties and/or resources protected under the National Historic Preservation Act (NHPA), American Indian Religious Freedom Act, Native American Graves Protection and Repatriation Act, Executive Order 13007, or other statutes and executive orders. The BLM will not approve any ground-disturbing activities that may affect any such properties or resources until it completes its obligations (e.g., State Historic Preservation Officer (SHPO) and tribal consultation) under applicable requirements of the NHPA and other authorities. The BLM may require modification to exploration or development proposals to protect such properties, or disapprove any activity that is likely to result in adverse effects that cannot be successfully avoided, minimized, or mitigated.

Fossils
This area has low to moderate potential for vertebrate paleontological resources, unless noted to have higher potential in a separate stipulation. This area may contain vertebrate paleontological resources. Inventory and/or on-site monitoring during disturbance or spot checking may be required of the operator. In the event that previously undiscovered paleontological resources are discovered in the performance of any surface disturbing activities, the item(s) or condition(s) will be left intact and immediately brought to
the attention of the authorized officer of the BLM. Operations within 250 feet of any such discovery will not be resumed until written authorization to proceed is issued by the Authorized Officer. The lessee will bear the cost of any required paleontological appraisals, surface collection of fossils, or salvage of any large conspicuous fossils of significant scientific interest discovered during the operations.

**Water**

The Operator is responsible for compliance with provisions of the Clean Water Act, Safe Drinking Water Act, and applicable State laws and regulations regarding protection of state water resources. Operators should contact Nevada Division of Water Resources and Nevada Division of Environmental Protection regarding necessary permits and compliance measures for any construction or other activities.

**Mining Claims**

This parcel may contain existing mining claims and/or mill sites located under the 1872 Mining Law. To the extent it does, the geothermal lessee must conduct its operations, so far as reasonably practicable, to avoid damage to any known deposit of any mineral for which any mining claim on this parcel is located, and should not endanger or unreasonably or materially interfere with the mining claimant's operations, including any existing surface or underground improvements, workings, or facilities which may have been made for the purpose of mining operations. The provisions of the Multiple Mineral Development Act (30 U.S.C. 521 et seq.) shall apply on the leased lands.

**Fire**

The following precautionary measures should be taken to prevent wildland fires. In the event your operations should start a fire, you could be held liable for all suppression costs.

- All vehicles should carry fire extinguishers and a minimum of 10 gallons of water.
- Adequate fire-fighting equipment i.e. shovel, pulaski, extinguisher(s) and a minimum 10 gallons of water should be kept at the drill site(s).
- Vehicle catalytic converters should be inspected often and cleaned of all brush and grass debris.
- When conducting welding operations, they should be conducted in an area free from or mostly free from vegetation. A minimum of 10 gallons water and a shovel should be on hand to extinguish any fires created from the sparks. Extra personnel should be at the welding site to watch for fires created by welding sparks.
- Report wildland fires immediately to the BLM Sierra Front Interagency Dispatch Center (SFIDC) at (775) 883-5995, or to the BLM Central Nevada Interagency Dispatch Center (CNIDC) at (775) 623-3444. Helpful information to reported is location (latitude and longitude if possible), what's burning, time started, who/what is near the fire and direction of fire spread.
- When conducting operations during the months of May through September, the operator must contact the BLM Carson City District Office, Division of Fire and Aviation at (775) 885-6000, BLM Ely District Office, Division of Fire and Aviation at (775) 289-1800, BLM Winnemucca District Office, Division of Fire and Aviation at (775) 623-1500, or the BLM Battle Mountain District Office, Division of Fire and Aviation at (775) 635-4000. To find out about any fire restrictions in place for the area of operation and to advise this office of approximate beginning and ending dates for your activities.
Pronghorn Antelope Seasonal Habitat  
(NV-W-01-A-TL)

**Stipulation:** Timing Limitation (TL) - No surface activity within Pronghorn Antelope Crucial Winter Habitat from November 15 through April 30.

**Objective [Purpose]:** To protect Pronghorn Antelope Crucial Winter Habitat necessary to maintaining the critical life stages of Pronghorn wildlife populations.

**Exception:** The Authorized Officer may grant an exception if an environmental review determines that the action, as proposed or otherwise restricted, does not adversely affect the Pronghorn Antelope and its habitat. An exception may also be granted if the proponent, BLM, and other affected interests negotiate mitigation that would satisfactorily offset the anticipated impacts to Pronghorn Antelope and its habitat. An exception may be granted for actions designed to enhance the long-term utility or availability of the habitat.

**Modification:** The boundaries of the stipulated area may be modified if the authorized officer, in consultation with Nevada Department of Wildlife, determines that portions of the area no longer contain the crucial winter pronghorn habitat or that the proposed action would not affect the species and habitat. The dates for the timing restriction may also be modified by the Authorized Officer if new information indicates the dates are not valid for the leasehold.

**Waiver:** The restriction may be waived by the Authorized Officer if it is determined that the described lands do not contain suitable pronghorn habitat, or are otherwise incapable of serving the requirements of for the species and therefore no longer warrant consideration as a component necessary for their protection.

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NV-19-09-078  T. 45 N., R 27 E., 21 MDM, NV
           Sec. 34 NENE, S2NE, SE
           Sec. 35 ALL
T. 44 N., R 27 E., 21 MDM, NV
           Sec. 01 LOTS 6-10, 16
           Sec. 02 ALL
           Sec. 03 LOTS 1-4
           Sec. 03 S2N2, S2
           Sec. 04 SE

NV-19-09-079  T. 45 N., R 27 E., 21 MDM, NV
           Sec. 14 ALL
           Sec. 15 NE E2SE
           Sec. 23 ALL
           Sec. 26 ALL
Sites Eligible for National Register of Historic Places  
(NV-W-07-C-NSO)

**Stipulation:** 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 of 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 (see WD RMP Action D-MR 4.1.3).

**Objective:** Protection of National Register of Historic Places Sites

**Exception:** The Authorized Officer may grant an exception if through the NHPA requirements, it is determined that the action, as proposed, does not adversely affect the long-term integrity or use of the TCP or the integrity of the site, or if the adverse effect can be mitigated. For TCPs, an exception may also be granted if the proponent, BLM, and the affected Tribe or tribal members negotiate mitigation that would satisfactorily offset the anticipated negative impacts.

**Modification:** The Authorized Officer may modify the size and shape of the restricted area is the NHPA requirements and/or Native American consultation indicate the site differs from that described in the original stipulation. Modifications may be made to allow for an increasing level of environmental protection when changing circumstances warrant stronger measures to meet goals, objectives, and outcomes identified in this RMP and any future amendments (see W O IM- 2010-117 [Oil and Gas Leasing Reform – Land Use Planning and Lease Parcel Reviews]).

**Waiver:** The restriction may be waived if it is determined that the described lands are not, in fact, part of a National Register of Historic Places eligible or listed site. This determination would be made as a part of the NHPA requirements and in consultation with the affected tribes.

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            Sec. 28 S2S2

NV-19-09-054  T. 22 N., R 28 E., 21 MDM, NV
            Sec. 1 L1, L2, L4, SWSW
            Sec. 2 L1-L3, E2SW, SWNE, SENE
            Sec. 10 E2NE, NESE
            Sec. 12 S2SW

NV-19-09-055  T. 22 N., R 28 E., 21 MDM, NV
            Sec. 24 W2SW, NWSW
            Sec. 28 NESW

NV-19-09-056  T. 29 N., R 23 E., 21 MDM, NV
            Sec. 4 L1-L3
            Sec. 8 L4
            Sec. 9 L2, L4

NV-19-09-059  T. 30 N., R 23 E., 21 MDM, NV
            Sec. 7 SESW, SWSE

NV-19-09-060  T. 32 N., R 23 E., 21 MDM, NV
            Sec. 22 SWNW
            Sec. 23 NWNW
            Sec. 29 S2NW, NENW, NWSW, N2NE, SWNE
            Sec. 30 L4, SESW, SE, NWNE
            Sec. 31 E2NW

NV-19-09-061  T. 32 N., R 23 E., 21 MDM, NV
            Sec. 32 SENW, SWNE
            Sec. 34 NENW

NV-19-09-062  T. 321 N., R 23 E., 21 MDM, NV
            Sec. 11 SESE
            Sec. 12 N2SW, SWSW, NWSE, S2NE, NENE

NV-19-09-063  T. 32 N., R 23 E., 21 MDM, NV
            Sec. 14 SENW, NESW, W2NE, NENE
            Sec. 16 W2W2, E2SW
            Sec. 17 NENW, SWNW, E2SE, SESW
            Sec. 18 L3, L4, SESW, W2SE, SWNE
            Sec. 19 SE, SENE
            Sec. 20 W2SW, SESE, SENW, W2NE, NENE
            Sec. 21 NE, NWSE, E2SW, SWSW

NV-19-09-064  T. 33 N., R 23 E., 21 MDM, NV
            Sec. 31 L7

NV-W-07-C-NSO
NV-19-09-066  T. 21 N., R 26 E., 21 MDM, NV
    Sec. 24 E2SE

NV-19-09-073  T. 27 N., R 27 E., 21 MDM, NV
    Sec. 21 S2SW

NV-19-09-075  T. 27 N., R 27 E., 21 MDM, NV
    Sec. 28 N2NW, SENW

NV-19-09-078  T. 44 N., R 27 E., 21 MDM, NV
    Sec. 1 L5, L19

NV-19-09-081  T. 21 N., R 28 E., 21 MDM, NV
    Sec. 16 S2SE
    Sec. 18 L1, NENW

NV-19-09-084  T. 22 N., R 28 E., 21 MDM, NV
    Sec. 28 NESW
    Sec. 32 SWSE

NV-19-09-118  T. 21 N., R 25 E., 21 MDM, NV
    Sec. 22 NWNW

NV-19-09-121  T. 21 N., R 27 E., 21 MDM, NV
    Sec. 24 NWNW

NV-19-09-122  T. 21 N., R 27 E., 21 MDM, NV
    Sec. 2 L5, NWSE, SENW, SWNE

NV-19-09-123  T. 22 N., R 27 E., 21 MDM, NV
    Sec. 10 S2SE, E2SW

NV-19-09-124  T. 31 N., R 33 E., 21 MDM, NV
    Sec. 32 SESW

NV-19-09-125  T. 32 N., R 33 E., 21 MDM, NV
    Sec. 30 L2

NV-19-09-126  T. 23 N., R 27 E., 21 MDM, NV
    Sec. 21 S2NW, N2SW, SWSW, SWNE
    Sec. 24 SE, NESE

NV-19-09-130  T. 30 N., R 33 E., 21 MDM, NV
    Sec. 8 SENE, N2SE, SWSE
    Sec. 10 NWSW, SWSE

NV-19-09-131  T. 31 N., R 32 E., 21 MDM, NV
    Sec. 12 ALL
    Sec. 24 W2NW

NV-W-07-C-NSO
NV-19-09-141
T. 21 N., R 27 E., 21 MDM, NV
Sec. 12 E2SE, SENE
Sec. 14 NW, NWSW, SESE

NV-19-09-150
T. 31 N., R 33 E., 21 MDM, NV
Sec. L2, SENE
Sec. 14 L2, L2
Sec. 22 L10

NV-W-07-C-NSO
Trails  
(NV-W-07-D-NSO)

**Stipulation:** No Surface Occupancy (NSO) will be applied directly on National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation and within National Trail Management Corridors. NSO may be applied to additional bordering lands; the extent will be dependent upon the topography and integrity of the setting surrounding individual trail segments along the designated NHT and National Historic Trail Corridor. Prior to the establishment of a National Trail Management Corridor, at a minimum, NSO will be applied 1/8-mile on either side of the center line of the trail (for a total of a 1/4-mile wide corridor). The center line will be established either through the GIS-based line provided by the Trail Administering Agency (NPS or BLM) or through GPS-based inventories uploaded on the Nevada Cultural Resource Inventory System (NVCRIS).

**Objective** [Purpose]: To protect the National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation, and National Trail Management Corridor resources, qualities, values, and associated settings.

**Exception:** The Authorized Officer may grant an exception if, through the National Historic Preservation Act (NHPA) and Management of National Scenic and Historic Trails and Trails Under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements, it is determined that the action, as proposed or otherwise restricted, does not adversely affect the resource. An exception may be granted for actions designed to enhance the long-term utility or availability of the trail.

**Modification:** The Authorized Officer may modify the size and shape of the restricted area if the NHPA and Management of National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements indicate the proposed action does not adversely impact the resource.

**Waiver:** The restriction may be waived if the NHPA and Management of National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements determine that the described lands are not contributing elements to the resource. This determination can only come after consultation with the National Park Service, Nevada State Historic Preservation Office and other interested publics.

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   Sec. 22 SWNW

NV-19-09-062  T. 32 N., R 23 E., 21 MDM, NV
   Sec. 5 ALL
   Sec. 6 ALL
   Sec. 7 LOTS 1-2
   Sec. 7 E2NW, E2
   Sec. 8 ALL

NV-19-09-063  T. 32 N., R 23 E., 21 MDM, NV
   Sec. 16 W2
   Sec. 17 E2, NW, E2SW
   Sec. 18 NENE
   Sec. 20 N2NE
   Sec. 21 N2

NV-19-09-064  T. 33 N., R 23 E., 21 MDM, NV
   Sec. 24 SW
   Sec. 25 NWNW
   Sec. 26 S2SW
   Sec. 31 LOTS 6-10,
   Sec. 31 SE
   Sec. 32 NWSW, S2SW
   Sec. 35 NW

NV-19-09-065  T. 33 N., R 24 E., 21 MDM, NV
   Sec. 18 NW

NV-19-09-084  T. 22 N., R 28 E., 21 MDM, NV
   Sec. 26 E2, NW, E2SW

NV-19-09-118  T. 21 N., R 25 E., 21 MDM, NV
   Sec. 22 E2, SW, SENW
   Sec. 32 E2, SW, SENW

NV-19-09-125  T. 32 N., R 33 E., 21 MDM, NV
   Sec. 20 NWNW, NENE
   Sec. 24 W2NW, NWNE
   Sec. 26 W2, W2NE

NV-19-09-126  T. 23 N., R 27 E., 21 MDM, NV
   Sec. 21 NW, W2SW, NESW, W2NE, NENE
   Sec. 22 S2
   Sec. 24 ALL
   Sec. 26 N2N2, W2NE, NENE
   Sec. 32 LOTS 5-7
   Sec. 32 NESW, S2NE, NWSE

NV-W-07-D-NSO
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<td>NV-19-09-127</td>
<td>T. 23 N., R 28 E., 21 MDM, NV&lt;br&gt;Sec. 20 NW, N2SW&lt;br&gt;Sec. 30 LOT 1</td>
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<tr>
<td>NV-19-09-129</td>
<td>T. 30 N., R 32 E., 21 MDM, NV&lt;br&gt;Sec. 12 ALL&lt;br&gt;Sec. 24 N2</td>
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<tr>
<td>NV-19-09-130</td>
<td>T. 30 N., R 30 E., 21 MDM, NV&lt;br&gt;Sec. 4 LOTS 1, 4&lt;br&gt;Sec. 4 SW&lt;br&gt;Sec. 8 E2&lt;br&gt;Sec. 16 SWNE</td>
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<tr>
<td>NV-19-09-131</td>
<td>T. 31 N., R 32 E., 21 MDM, NV&lt;br&gt;Sec. 12 ALL&lt;br&gt;Sec. 24 ALL&lt;br&gt;Sec. 36 W2, SE, E2NE</td>
</tr>
<tr>
<td>NV-19-09-150</td>
<td>T. 31 N., R 33 E., 21 MDM, NV&lt;br&gt;Sec. 2 LOTS 1-2, 20-21&lt;br&gt;Sec. 18 LOTS 6-7, 16-17</td>
</tr>
</tbody>
</table>
Riparian Habitat Buffer
(NV-B,C,W-10-B-CSU)

Stipulation: Controlled Surface Use (CSU) will be applied within 500 feet of riparian-wetland vegetation to protect the values and functions of these areas. An engineering plan or a study may be required by the operator that identifies the extent of the resource or how the resource will be managed or protected.

Objective [Purpose]: To protect the values and functions of riparian and wetland areas based on the nature, extent, and value of the area potentially affected.

Exception: The Authorized Officer may grant an exception if an environmental review determines that the action, as proposed or otherwise restricted, does not affect the resource. An exception may also be granted if the proponent, BLM, and other affected interests (e.g. NDOW) negotiate mitigation that would satisfactorily offset the anticipated negative impacts. An exception may be granted for actions designed to enhance the long-term utility or availability of the riparian habitat.

Modification: The Authorized Officer may modify the size and shape of the restricted area if an environmental analysis indicates the actual suitability of the land for the resource differs from that in the otherwise applicable restriction. Any modification authorized by this stipulation is subject to 43 C.F.R. 3101.1-4, including provisions requiring public review for issues of major public concern, or substantial modifications.

Waiver: The restriction may be waived if it is determined that the described lands do not contain the subject resource, or are incapable of serving the requirements of the resource and therefore no longer warrant consideration as a component necessary for protection of the resource. Any waiver authorized by this stipulation is subject to 43 C.F.R. 3101.1-4, including provisions requiring public review for issues of major public concern, or substantial waivers.

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<td>NV-19-09-028</td>
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<td>Sec. 32 LOT 1</td>
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<td>Sec. 36 SENE</td>
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<td>NV-19-09-032</td>
<td>T. 0230N, R. 0370E, 21 MDM, NV</td>
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<td>Sec. 005 N2NE</td>
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<td>NV-19-09-033</td>
<td>T. 0230N, R. 0370E, 21 MDM, NV</td>
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<td></td>
<td>Sec. 006 NENE</td>
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<tr>
<td></td>
<td>Sec. 008 N2SW, SESW, SENW;</td>
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NV-19-09-043  T. 0230N, R. 0360E, 21 MDM, NV
             Sec. 001    NWSW;

NV-19-09-045  T. 0230N, R. 0360E, 21 MDM, NV
             Sec. 026    S2SW;
             Sec. 027    S2SE;
             Sec. 034    N2NE;
             Sec. 035    N2NW;

NV19-09-046   T. 0220N, R. 0360E, 21 MDM, NV
             Sec. 019    NENW;

NV-19-09-047  T. 0220N, R. 0360E, 21 MDM, NV
             Sec. 009    NWNE;

NV-19-09-048  T. 0220N, R. 0360E, 21 MDM, NV
             Sec. 003 W2NE, E2NW, N2SW, SWNW;
             Sec. 004 SENE, E2SE, SESE;

NV-19-09-049  T. 0220N, R. 0360E, 21 MDM, NV
             Sec. 016 S2NE, NWSE, NESW, SENW;
             Sec. 018 S2NE, N2SE, SESW, S2SW, NESW;

NV-19-09-059  T. 30 N., R 23 E., 21 MDM, NV
             Sec. 7 LOT 4

NV-19-09-060  T. 32 N., R 23 E., 21 MDM, NV
             Sec. 22 S2NW;
             Sec. 23 NWNW;

NV-19-09-064  T. 33 N., R 24 E., 21 MDM, NV
             Sec. 26 SESE;

NV-19-09-081  T. 21 N., R 28 E., 21 MDM, NV
             Sec. 20 S2SW;

NV-19-09-086  T. 40 N., R 28 E., 21 MDM, NV
             Sec. 19 NWNE, S2NE, SENW;
             Sec. 20 SESE;

NV-B,C-10-B-CSU
NV-19-09-091  T. 0220N, R. 0350E, 21 MDM, NV
            Sec. 025     N2NW;
            Sec. 027     SWSE, NESW;

NV-19-09-094  T. 0240N, R. 0370E, 21 MDM, NV
            Sec. 030 SWNE, NWSE, NESW, SENW;

NV-19-09-095  T. 0240N, R. 0370E, 21 MDM, NV
            Sec. 032 S2SE;

NV-19-09-118  T. 21 N., R 25 E., 21 MDM, NV
            Sec. 22 SESE;

NV-19-09-124  T. 31 N., R 33 E., 21 MDM, NV
            Sec. 32 E2SW;

NV-19-09-125  T. 32 N., R 33 E., 21 MDM, NV
            Sec. 30 W2;

NV-19-09-131  T. 31 N., R 32 E., 21 MDM, NV
            Sec. 36 NENE;

NV-19-09-150  T. 31 N., R 33 E., 21 MDM, NV
            Sec. 1 LOTS 2-3, 21, 29;
            Sec. 2 LOTS 2-3;
            T. 30 N., R 33 E., 21 MDM, NV
            Sec 36 LOTS 1-4;
**Soil Slopes >50 percent**  
**(NV-W-11-D-NSO)**

**Stipulation:** No Surface Occupancy (NSO) 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 evaluation of the area).

**Objective [Purpose]:** To maintain soil productivity, provide necessary protection to prevent excessive soil erosion on steep slopes, to avoid areas subject to slope failure, mass wasting, piping, or having excessive reclamation problems.

**Exception:** The 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.

**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.

**Waiver:** The restriction may be waived if it is determined that the described lands do not include lands with slopes greater than 50 percent. This determination shall be based upon USGS mapping and a BLM evaluation of the area.

<table>
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<tr>
<th>Parcel #</th>
<th>Legal Land Description</th>
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<td>NV-19-09-063</td>
<td>T. 32 N., R 23 E., 21 MDM, NV</td>
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<td>Sec. 16 N2NW</td>
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<tr>
<td>NV-19-09-064</td>
<td>T. 33 N., R 23 E., 21 MDM, NV</td>
</tr>
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<td>Sec. 24 N2SW</td>
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<td>Sec. 26 S2SW</td>
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<td>Sec. 33 SE</td>
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<td>Sec. 34 S2, NE</td>
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<td>NV-19-09-065</td>
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<td>NV-19-09-086</td>
<td>T. 40 N., R 28 E., 21 MDM, NV</td>
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<td>Sec. 17 S2SE</td>
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<td>Sec. 19 E2NE</td>
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<td>Sec. 20 N2</td>
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<td>NV-19-09-118</td>
<td>T. 21 N., R 25 E., 21 MDM, NV</td>
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<td>Sec. 10 SE</td>
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<td>Sec. 22 NW, N2SW</td>
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<td>NV-19-09-119</td>
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<td>Sec. 36 NW, NWSW</td>
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| NV-19-09-124 | T. 31 N., R 33 E., 21 MDM, NV  
|               | Sec. 32 E2SW, S2NW         |
| NV-19-09-125 | T. 32 N., R 33 E., 21 MDM, NV  
|               | Sec. 30 LOTS 1-2            |
| NV-19-09-129 | T. 30 N., R 32 E., 21 MDM, NV  
|               | Sec. 12 NE, N2SE, SESE      |
| NV-19-09-131 | T. 31 N., R 32 E., 21 MDM, NV  
|               | Sec. 36 E2E2, N2NW          |
| NV-19-09-150 | T. 31 N., R 33 E., 21 MDM, NV  
|               | Sec. 18 LOT 7               |
Resource: Raptor Nest Sites
(NV-W-06-B-TL)

Stipulation: Timing Limitation. 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). The following timing restrictions apply.

<table>
<thead>
<tr>
<th>Species</th>
<th>Location</th>
<th>Distance of Spatial Buffer Zone/Type of Restriction</th>
<th>Restriction Dates</th>
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<tbody>
<tr>
<td>Bald eagle</td>
<td>Nests</td>
<td>1/4 mile non-los and 1/2 mile los and 1 mile blasting</td>
<td>Jan 1 - Aug 31</td>
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<tr>
<td></td>
<td>Winter roosts</td>
<td>1/2 mile</td>
<td>Dec. 1 - April 1</td>
</tr>
<tr>
<td>Northern goshawk</td>
<td>Nests (occupied)</td>
<td>1/4 mile</td>
<td>Feb 1 - Aug 31</td>
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<td></td>
<td>Previous Years Nests</td>
<td>1/2 mile los</td>
<td>Feb 1 - Aug 31</td>
</tr>
<tr>
<td>Golden eagle</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile los</td>
<td>Feb 1 - Aug 31</td>
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<tr>
<td>Ferruginous hawk</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile los</td>
<td>Mar. 1 - August 31</td>
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<tr>
<td>Red-tailed hawk</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>Mar 1 - August 31</td>
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<tr>
<td>Swainson's hawk</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile lose</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Prairie falcon</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Burrowing owl</td>
<td>Nests</td>
<td>1/4 mile- Permanent disturbance or occupancy, 260 feet temporary disturbance</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Flammulated owl</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>April 1 0 Sept. 30</td>
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</table>

Objective [Purpose]: To protect raptor nesting activities necessary to maintaining the critical life stages of existing raptor populations.

Exception: The Authorized Officer may grant an exception if an environmental review determines that the action, as proposed or otherwise restricted, does not adversely affect raptor nest sites being protected by the restriction. An exception may also be granted if the proponent, BLM, and other affected interests, in consultation with Nevada Department of Wildlife, negotiate mitigation that would satisfactorily offset the anticipated impacts. An exception may be granted for actions designed to enhance the long-term utility or availability of the habitat.
**Modification:** The boundaries of the stipulated area may be modified if the Authorized Officer, in consultation with Nevada Department of Wildlife, determines that portions of the area can be occupied without adversely affecting raptor nesting activity. The dates for the timing restriction may be modified if new information indicates the dates are not valid for the leasehold.

**Waiver:** The stipulation may be waived if the authorized officer, in consultation with Nevada Department of Wildlife determines that the entire leasehold no longer contains raptor nest sites.

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</table>

NV-W-06-B-TL
The undersigned (see page 2) offers to lease all or any of the lands in item 2 that are available for lease pursuant to the Geothermal Steam Act of 1970, as amended (30 U.S.C. 1001-1025).

READ INSTRUCTIONS BEFORE COMPLETING

1. Name: Ormat Nevada Inc
   1a. Street: 6140 Plumas St

2. City: Reno
   State: NV
   Zip Code: 89519

2. Surface managing agency if other than BLM: 
   Unit/Project: 
   Legal description of land requested (segregate by public domain and acquired lands): Enter T., R., Meridian, State and County

Future rental payments must be made on or before the anniversary date to:
Office of Natural Resources Revenue (ONRR)

Total Acres Applied for 
Percent U.S. interest 

Amount remitted: 
Processing Fee $ 
Rental Fee $ 
Total $ 

DO NOT WRITE BELOW THIS LINE

3. Land included in lease: Enter T., R., Meridian, State and County
   T.0320N, R.0230E, 21 MDM, NV
     Sec. 013 ALL;
     014 NE, N2NW, SENW, E2SW, SE;
     016 W2;
     017 ALL;
   T.0320N, R.0230E, 21 MDM, NV
     Sec. 018 LOTS 1-4;
     018 E2, E2NW, E2SW;
     019 LOTS 1-4;
     019 E2, E2NW, E2SW;
   T.0320N, R.0230E, 21 MDM, NV
     Sec. 021 ALL;

Total Acres in Lease 4666.320
Rental Retained $ 9334.00

In accordance with the above offer, or the previously submitted competitive bid, this lease is issued granting the exclusive right to drill for, extract, produce, remove, utilize, sell, and dispose of all the geothermal resources in the lands described in Item 3 together with the right to build and maintain necessary improvements thereon, for a primary term of 10 years and subsequent extensions thereof in accordance with 43 CFR subpart 3207. Rights granted are subject to applicable laws; the terms, conditions, and attached stipulations of this lease; the Secretary of the Interior's regulations and formal orders in effect as of lease issuance; and, when not inconsistent with the provisions of this lease, regulations and formal orders hereafter promulgated.

THE UNITED STATES OF AMERICA

BY

(Signing Official)

(Printed Name)

Chief, Branch of Mineral Resources, Fluids

Effective Date of Lease 
Check if this is a converted lease □
Effective Date of Lease Conversion 

(Continued on page 2)
LEASE TERMS

See 1. Rental—Rental must be paid to the proper office of the lessee in advance of each lease year. Annual rental rates per acre or fraction thereof, as applicable, are:
(a) Noncompetitive lease includes pipe-set piles. Rent is due on the first day of the month following the month of production. Royalties will be computed in accordance with applicable regulations and orders. Royalty rates for geothermal resources produced for the commercial generation of electricity but not sold in an arm’s-length transaction are 5% of the gross proceeds derived from the sale of electricity in accordance with 30 C.F.R. 206.21.
(b) Competitive lease: $2.00 for the first year; $10.00 for the second through tenth year; thereafter $5.00. Annual rental is due by the anniversary date of the lease (3 C.F.R. 321.13), unless it is impossible to determine whether the lessee is in a United States or foreign country.
Rental may be credited toward royalty under 3 C.F.R. 321.13 and 30 C.F.R. 218.10. Rental may not be credited against direct use fees. Failure to pay annual rental timely will result in late fees and will make the lease subject to termination in accordance with 3 C.F.R. 321.14.

See 2. Royalties—Royalties must be paid to the proper office of the lessee. Royalties are due on the last day of each month following the month of production. Royalties will be computed in accordance with applicable regulations and orders. Royalty rates for geothermal resources produced for the commercial generation of electricity but not sold in an arm’s-length transaction are 8% of the gross proceeds derived from the sale of electricity in accordance with 30 C.F.R. 206.21. If the lease is on a portion thereof is committed to an approved communication or net agreement and the agreement contains a provision for allocation of production, royalties must be paid on the production allocated to the lease.

See 3. Bonds—A bond must be filed and maintained for lease operations as required by applicable regulations.

See 4. Work requirements, rate of development, utilization, and drainage—Lessee must perform work requirements in accordance with applicable regulations (3 C.F.R. 320.11, 320.12), and must prevent unnecessary damage to, loss of, or waste of leased resources. Lessee reserves the right to specify rates of development and production and to require lessee to commit to a communication or unit agreement, within 30 days of notice, if the public interest. Lessee will drill and produce wells necessary to protect leased lands from drainage or pay compensatory royalty for drainage in the amount determined by lessee. Lessee will not be liable for work requirements only where the lease overlies a mineral claim that is on an approved plan of operations and where BLM determines that the development of the geothermal resource on the lease would interfere with the mining operation (3 C.F.R. 320.13).

See 5. Documents, evidence, and inspections—Lessee must file with the proper office of the lessee, later than (30) days after the effective date thereof, any contract or evidence of other arrangement for the sale, use, or disposal of geothermal resources, byproducts produced, or for the sale of electricity generated using geothermal resources produced from the lease. At such times and in such form as may be prescribed, lessee must furnish detailed statements and all documents showing (a) amounts and quality of all geothermal resources produced and sold under the contract for commercial production or sale of electricity by lessee under the contract or otherwise sold; (b) proceeds derived therefrom or from the sale of electricity generated using such resources; (c) amounts that are unreported or not reported before use, used to generate plant parasitic electricity (defined in 30 C.F.R. 206.31) or electricity for lessee operations, or otherwise used for lessee operations related to the commercial production or generation of electricity; and (d) amounts and quality of byproducts produced and proceeds derived from the sale or disposition thereof. Lessee may be required to provide plans, geologic diagrams showing development work, and improvements, and reports with respect to parties in interest. If a format and manner approved by lessee, lessee must: keep a daily drilling record, a log, and complete information on well surveys and tests, keep a record of subsurface investigations, and furnish copies to lessee when required.
INSTRUCTIONS

A. General

1. Items 1 and 2 need to be completed only by parties filing for a noncompetitive lease. The BLM will complete the front of the form for other types of leases. The BLM may use the “Comments” space under Item 3 to identify when: the lessee has elected to make all lease terms subject to the Energy Policy Act of 2005 under 43 CFR 3200.7(a)(2) or 43 CFR 3200.8(b) (box labeled “converted lease” must also be checked); the lease is being issued noncompetitively to a party who holds a mining claim on the same lands as is covered by the lease under 43 CFR 3204.12; the lease is a direct use lease issued to a State, local, or tribal government (box at section 2(e) under Lease Terms must also be checked); the lease is a competitive lease with direct-use-only stipulations attached; or other special circumstances exist. A lessee who seeks to convert only the royalty rate of a lease under 43 CFR 3212.25 or who qualifies for a case-by-case royalty rate determination under 43 CFR 3211.17(h)(1)(i) should not use this form, but should instead use an addendum to the existing lease.

2. Entries must be typed or printed plainly in ink. The offeror must sign the form (Item 4) in ink.

3. An original and two copies of this offer must be prepared and filed in the proper BLM State Office. See regulations at 43 CFR 1821.10 for office locations.

4. If more space is needed, additional sheets must be attached to each copy of the form submitted.

B. Specific

Item 1—Enter the offeror’s name and billing address.

Item 2—Indicate the agency managing the surface use of the land and the name of the unit or project of which the land is a part. The offeror may also provide other information that will assist in establishing status of the lands. The description of land must conform to 43 CFR 3233.10. Total acres applied for must not exceed that allowed by regulations (43 CFR 3203.10; 43 CFR 3206.12).

Payments: For noncompetitive leases, the amount remitted must include the processing fee for noncompetitive lease applications (43 CFR 3204.10; 43 CFR 3000.12) and the first year’s rental at the rate of $1 per acre or fraction thereof. If the United States owns only a fractional interest in the geothermal resources, you must pay a prorated rental under 43 CFR 3211.11(d). The BLM will retain the processing fee even if the offer is completely rejected or withdrawn. To maintain the offeror’s priority, the offeror must submit rental sufficient to cover all the land requested. If the land requested includes lots or irregular quarter-quarter sections, the exact acreage of which is not known to the offeror, rental should be submitted on the assumption that each such lot or quarter-quarter section contains 40 acres. If the offer is withdrawn or rejected in whole or in part before a lease issue, the BLM will return the rental remitted for the parts withdrawn or rejected.

The BLM will fill in the processing fee for competitive lease applications (43 CFR 3203.17; 43 CFR 3000.12) and the first year’s rental at the rate of $2 per acre or fraction thereof.

Item 3—The BLM will complete this space.

NOTICES

The Privacy Act of 1974 and the regulation at 43 CFR 2.48(d) provide that you be furnished with the following information in connection with information required by this geothermal lease application.

AUTHORITY: 30 U.S.C. 1000 et seq.

PRINCIPAL PURPOSE—The information is to be used to process geothermal lease applications.

ROUTINE USES: (1) The adjudication of the lessee’s rights to the land or resources. (2) Documentation for public information in support of notations made on land status records for the management, disposal, and use of public lands and resources. (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting uses or rights in public lands or resources. (4) Transfer to the appropriate Federal, State, local, or foreign agencies, when relevant to civil, criminal, or regulatory investigations or prosecutions.
BLM Nevada Standard Lease Notices
(NV-B,C,E,L,W-00-A-LN)

These stipulations and notices apply to all parcels ALL LANDS and represent standard Best Management Practices for ensuring compliance with extant Federal Laws and resource protection.

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

Migratory Birds
The Operator is responsible for compliance with provisions of the Migratory Bird Treaty Act by implementing measures to prevent take of migratory birds. Operators should be aware that any ground clearing or other disturbance (such as creating cross-country access to sites, drilling, and/or construction) during the migratory bird (including raptors) nesting season (March 1 - July 31) risks a violation of the Migratory Bird Treaty Act. Disturbance to nesting migratory birds should be avoided by conducting surface disturbing activities outside the migratory bird nesting season.

If surface disturbing activities must be implemented during the nesting season, a preconstruction survey for nesting migratory birds should be performed by a qualified wildlife biologist during the breeding season (if work is not completed within a specified time frame, then additional surveys may be needed). If active nests are found, an appropriately-sized no surface disturbance buffer determined in coordination with the BLM biologist should be placed on the active nest until the nesting attempt has been completed. If no active nests are found, construction activities must occur within the survey validity time frame specified in the conditions of approval.

Cultural Resources and Tribal Consultation
This lease may be found to contain historic properties and/or resources protected under the National Historic Preservation Act (NHPA), American Indian Religious Freedom Act, Native American Graves Protection and Repatriation Act, Executive Order 13007, or other statutes and executive orders. The BLM will not approve any ground-disturbing activities that may affect any such properties or resources until it completes its obligations (e.g., State Historic Preservation Officer (SHPO) and tribal consultation) under applicable requirements of the NHPA and other authorities. The BLM may require modification to exploration or development proposals to protect such properties, or disapprove any activity that is likely to result in adverse effects that cannot be successfully avoided, minimized, or mitigated.

Fossils
This area has low to moderate potential for vertebrate paleontological resources, unless noted to have higher potential in a separate stipulation. This area may contain vertebrate paleontological resources. Inventory and/or on-site monitoring during disturbance or spot checking may be required of the operator. In the event that previously undiscovered paleontological resources are discovered in the performance of any surface disturbing activities, the item(s) or condition(s) will be left intact and immediately brought to
the attention of the authorized officer of the BLM. Operations within 250 feet of any such discovery will not be resumed until written authorization to proceed is issued by the Authorized Officer. The lessee will bear the cost of any required paleontological appraisals, surface collection of fossils, or salvage of any large conspicuous fossils of significant scientific interest discovered during the operations.

Water
The Operator is responsible for compliance with provisions of the Clean Water Act, Safe Drinking Water Act, and applicable State laws and regulations regarding protection of state water resources. Operators should contact Nevada Division of Water Resources and Nevada Division of Environmental Protection regarding necessary permits and compliance measures for any construction or other activities.

Mining Claims
This parcel may contain existing mining claims and/or mill sites located under the 1872 Mining Law. To the extent it does, the geothermal lessee must conduct its operations, so far as reasonably practicable, to avoid damage to any known deposit of any mineral for which any mining claim on this parcel is located, and should not endanger or unreasonably or materially interfere with the mining claimant's operations, including any existing surface or underground improvements, workings, or facilities which may have been made for the purpose of mining operations. The provisions of the Multiple Mineral Development Act (30 U.S.C. 521 et seq.) shall apply on the leased lands.

Fire
The following precautionary measures should be taken to prevent wildland fires. In the event your operations should start a fire, you could be held liable for all suppression costs.

- All vehicles should carry fire extinguishers and a minimum of 10 gallons of water.
- Adequate fire-fighting equipment i.e. shovel, pulaski, extinguisher(s) and a minimum 10 gallons of water should be kept at the drill site(s).
- Vehicle catalytic converters should be inspected often and cleaned of all brush and grass debris.
- When conducting welding operations, they should be conducted in an area free from or mostly free from vegetation. A minimum of 10 gallons water and a shovel should be on hand to extinguish any fires created from the sparks. Extra personnel should be at the welding site to watch for fires created by welding sparks.
- Report wildland fires immediately to the BLM Sierra Front Interagency Dispatch Center (SFIDC) at (775) 883-5995, or to the BLM Central Nevada Interagency Dispatch Center (CNIDC) at (775) 623-3444. Helpful information to reported is location (latitude and longitude if possible), what's burning, time started, who/what is near the fire and direction of fire spread.
- When conducting operations during the months of May through September, the operator must contact the BLM Carson City District Office, Division of Fire and Aviation at (775) 885-6000, BLM Ely District Office, Division of Fire and Aviation at (775) 289-1800, BLM Winnemucca District Office, Division of Fire and Aviation at (775) 623-1500, or the BLM Battle Mountain District Office, Division of Fire and Aviation at (775) 635-4000 To find out about any fire restrictions in place for the area of operation and to advise this office of approximate beginning and ending dates for your activities.
Pronghorn Antelope Seasonal Habitat  
(NV-W-01-A-TL)

**Stipulation:** Timing Limitation (TL) - No surface activity within Pronghorn Antelope Crucial Winter Habitat from November 15 through April 30.

**Objective [Purpose]:** To protect Pronghorn Antelope Crucial Winter Habitat necessary to maintaining the critical life stages of Pronghorn wildlife populations.

**Exception:** The Authorized Officer may grant an exception if an environmental review determines that the action, as proposed or otherwise restricted, does not adversely affect the Pronghorn Antelope and its habitat. An exception may also be granted if the proponent, BLM, and other affected interests negotiate mitigation that would satisfactorily offset the anticipated impacts to Pronghorn Antelope and its habitat. An exception may be granted for actions designed to enhance the long-term utility or availability of the habitat.

**Modification:** The boundaries of the stipulated area may be modified if the authorized officer, in consultation with Nevada Department of Wildlife, determines that portions of the area no longer contain the crucial winter pronghorn habitat or that the proposed action would not affect the species and habitat. The dates for the timing restriction may also be modified by the Authorized Officer if new information indicates the dates are not valid for the leasehold.

**Waiver:** The restriction may be waived by the Authorized Officer if it is determined that the described lands do not contain suitable pronghorn habitat, or are otherwise incapable of serving the requirements of for the species and therefore no longer warrant consideration as a component necessary for their protection.

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Sec. 34 NENE, S2NE, SE  
Sec. 35 ALL  
T. 44 N., R 27 E., 21 MDM, NV  
Sec. 01 LOTS 6-10, 16  
Sec. 02 ALL  
Sec. 03 LOTS 1-4  
Sec. 03 S2N2, S2  
Sec. 04 SE|
|NV-19-09-079| T. 45 N., R 27 E., 21 MDM, NV  
Sec. 14 ALL  
Sec. 15 NE E2SE  
Sec. 23 ALL  
Sec. 26 ALL|
Sites Eligible for National Register of Historic Places  
(NV-W-07-C-NSO)

Stipulation: 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, pencing conclusion of the National Historic Preservation Act (NHPA) requirements and Native American consultation process. Additional lands outside of 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 (see WD RMP Action D-MR 4.1.3).

Objective: Protection of National Register of Historic Places Sites

Exception: The Authorized Officer may grant an exception if through the NHPA requirements, it is determined that the action, as proposed, does not adversely affect the long-term integrity or use of the TCP or the integrity of the site, or if the adverse effect can be mitigated. For TCPs, an exception may also be granted if the proponent, BLM, and the affected Tribe or tribal members negotiate mitigation that would satisfactorily offset the anticipated negative impacts.

Modification: The Authorized Officer may modify the size and shape of the restricted area is the NHPA requirements and/or Native American consultation indicate the site differs from that described in the original stipulation. Modifications may be made to allow for an increasing level of environmental protection when changing circumstances warrant stronger measures to meet goals, objectives, and outcomes identified in this RMP and any future amendments (see WO IM- 2010-117 [Oil and Gas Leasing Reform – Land Use Planning and Lease Parcel Reviews]).

Waiver: The restriction may be waived if it is determined that the described lands are not, in fact, part of a National Register of Historic Places eligible or listed site. This determination would be made as a part of the NHPA requirements and in consultation with the affected tribes.

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| NV-19-09-029 | T. 26 N., R 38 E., 21 MDM, NV  
               | Sec. 28 W2SW, NWSE  
               | Sec. 29 L1, SWSW |
| NV-19-09-037 | T. 25 N., R 38 E., 21 MDM, NV  
               | Sec. 14 SWSW  
               | Sec. 15 SESE  
               | Sec. 16 W2SE |
| NV-19-09-040 | T. 25 N., R 38 E., 21 MDM, NV  
               | Sec. 22 NENE  
               | Sec. 23 NENE |
NV-19-09-051  T. 36 N., R 34 E., 21 MDM, NV
               Sec. 28 S2S2

NV-19-09-054  T. 22 N., R 28 E., 21 MDM, NV
               Sec. 1 L1, L2, L4, SWSW
               Sec. 2 L1-L3, E2SW, SWNE, SENE
               Sec. 10 E2NE, NESE
               Sec. 12 S2SW

NV-19-09-055  T. 22 N., R 28 E., 21 MDM, NV
               Sec. 24 W2SW, NWSW
               Sec. 28 NESW

NV-19-09-056  T. 29 N., R 23 E., 21 MDM, NV
               Sec. 4 L1-L3
               Sec. 8 L4
               Sec. 9 L2, L4

NV-19-09-059  T. 30 N., R 23 E., 21 MDM, NV
               Sec. 7 SESW, SWSE

NV-19-09-060  T. 32 N., R 23 E., 21 MDM, NV
               Sec. 22 SWNW
               Sec. 23 NWNW
               Sec. 29 S2NW, NENW, NWSW, N2NE, SWNE
               Sec. 30 L4, SESW, SE, NWNE
               Sec. 31 E2NW

NV-19-09-061  T. 32 N., R 23 E., 21 MDM, NV
               Sec. 32 SENW, SWNE
               Sec. 34 NENW

NV-19-09-062  T. 321 N., R 23 E., 21 MDM, NV
               Sec. 11 SESE
               Sec. 12 N2SW, SWSW, NWSE, S2NE, NENE

NV-19-09-063  T. 32 N., R 23 E., 21 MDM, NV
               Sec. 14 SENW, NESW, W2NE, NENE
               Sec. 16 W2W2, E2SW
               Sec. 17 NENW, SWNW, E2SE, SESW
               Sec. 18 L3, L4, SESW, W2SE, SWNE
               Sec. 19 SE, SENE
               Sec. 20 W2SW, SESE, SENW, W2NE, NENE
               Sec. 21 NE, NWSE, E2SW, SWSW

NV-19-09-064  T. 33 N., R 23 E., 21 MDM, NV
               Sec. 31 L7

NV-W-07-C-NSO
NV-19-09-066  T. 21 N., R 26 E., 21 MDM, NV
            Sec. 24 E2SE

NV-19-09-073  T. 27 N., R 27 E., 21 MDM, NV
            Sec. 21 S2SW

NV-19-09-075  T. 27 N., R 27 E., 21 MDM, NV
            Sec. 28 N2NW, SENW

NV-19-09-078  T. 44 N., R 27 E., 21 MDM, NV
            Sec. 1 L5, L19

NV-19-09-081  T. 21 N., R 28 E., 21 MDM, NV
            Sec. 16 S2SE
            Sec. 18 L1, NENW

NV-19-09-084  T. 22 N., R 28 E., 21 MDM, NV
            Sec. 28 NESW
            Sec. 32 SWSE

NV-19-09-118  T. 21 N., R 25 E., 21 MDM, NV
            Sec. 22 NWNW

NV-19-09-121  T. 21 N., R 27 E., 21 MDM, NV
            Sec. 24 NWNW

NV-19-09-122  T. 21 N., R 27 E., 21 MDM, NV
            Sec. 2 L5, NWSE, SENW, SWNE

NV-19-09-123  T. 22 N., R 27 E., 21 MDM, NV
            Sec. 10 S2SE, E2SW

NV-19-09-124  T. 31 N., R 33 E., 21 MDM, NV
            Sec. 32 SESW

NV-19-09-125  T. 32 N., R 33 E., 21 MDM, NV
            Sec. 30 L2

NV-19-09-126  T. 23 N., R 27 E., 21 MDM, NV
            Sec. 21 S2NW, N2SW, SWSW, SWNE
            Sec. 24 SE, NENE

NV-19-09-130  T. 30 N., R 33 E., 21 MDM, NV
            Sec. 8 SENE, N2SE, SWSE
            Sec. 10 NWSW, SWSE

NV-19-09-131  T. 31 N., R 32 E., 21 MDM, NV
            Sec. 12 ALL
            Sec. 24 W2NW

NV-W-07-C-NSO
NV-19-09-141 T. 21 N., R 27 E., 21 MDM, NV
  Sec. 12 E2SE, SENE
  Sec. 14 NW, NWSW, SESE

NV-19-09-150 T. 31 N., R 33 E., 21 MDM, NV
  Sec. L2, SENE
  Sec. 14 L2, L2
  Sec. 22 L10
Stipulation: No Surface Occupancy (NSO) will be applied directly on National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation and within National Trail Management Corridors. NSO may be applied to additional bordering lands; the extent will be dependent upon the topography and integrity of the setting surrounding individual trail segments along the designated NHT and National Historic Trail Corridor. Prior to the establishment of a National Trail Management Corridor, at a minimum, NSO will be applied 1/8-mile on either side of the center line of the trail (for a total of a 1/4-mile wide corridor). The center line will be established either through the GIS-based line provided by the Trail Administering Agency (NPS or BLM) or through GPS-based inventories uploaded on the Nevada Cultural Resource Inventory System (NVCRIS).

Objective [Purpose]: To protect the National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation, and National Trail Management Corridor resources, qualities, values, and associated settings.

Exception: The Authorized Officer may grant an exception if, through the National Historic Preservation Act (NHPA) and Management of National Scenic and Historic Trails and Trails Under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements, it is determined that the action, as proposed or otherwise restricted, does not adversely affect the resource. An exception may be granted for actions designed to enhance the long-term utility or availability of the trail.

Modification: The Authorized Officer may modify the size and shape of the restricted area if the NHPA and Management of National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements indicate the proposed action does not adversely impact the resource.

Waiver: The restriction may be waived if the NHPA and Management of National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements determine that the described lands are not contributing elements to the resource. This determination can only come after consultation with the National Park Service, Nevada State Historic Preservation Office and other interested publics.

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           Sec. 22 SWNW

NV-19-09-062  T. 32 N., R 23 E., 21 MDM, NV
           Sec. 5 ALL
           Sec. 6 ALL
           Sec. 7 LOTS 1-2
           Sec. 7 E2NW, E2
           Sec. 8 ALL

NV-19-09-063  T. 32 N., R 23 E., 21 MDM, NV
           Sec. 16 W2
           Sec. 17 E2, NW, E2SW
           Sec. 18 NENE
           Sec. 20 N2NE
           Sec. 21 N2

NV-19-09-064  T. 33 N., R 23 E., 21 MDM, NV
           Sec. 24 SW
           Sec. 25 NWNW
           Sec. 26 S2SW
           Sec. 31 LOTS 6-10,
           Sec. 31 SE
           Sec. 32 NWSW, S2SW
           Sec. 35 NW

NV-19-09-065  T. 33 N., R 24 E., 21 MDM, NV
           Sec. 18 NW

NV-19-09-084  T. 22 N., R 28 E., 21 MDM, NV
           Sec. 26 E2, NW, E2SW

NV-19-09-118  T. 21 N., R 25 E., 21 MDM, NV
           Sec. 22 E2, SW, SENW
           Sec. 32 E2, SW, SENW

NV-19-09-125  T. 32 N., R 33 E., 21 MDM, NV
           Sec. 20 NWNW, NENE
           Sec. 24 W2NW, NWNE
           Sec. 26 W2, W2NE

NV-19-09-126  T. 23 N., R 27 E., 21 MDM, NV
           Sec. 21 NW, W2SW, NESW, W2NE, NENE
           Sec. 22 S2
           Sec. 24 ALL
           Sec. 26 N2N2, W2NE, NENE
           Sec. 32 LOTS 5-7
           Sec. 32 NESW, S2NE, NWSE

NV-W-07-D-NSO
NV-19-09-127  T. 23 N., R 28 E., 21 MDM, NV
     Sec. 20 NW, N2SW
     Sec. 30 LOT 1

NV-19-09-129  T. 30 N., R 32 E., 21 MDM, NV
     Sec. 12 ALL
     Sec. 24 N2

NV-19-09-130  T. 30 N., R 30 E., 21 MDM, NV
     Sec. 4 LOTS 1, 4
     Sec. 4 SW
     Sec. 8 E2
     Sec. 16 SWNE

NV-19-09-131  T. 31 N., R 32 E., 21 MDM, NV
     Sec. 12 ALL
     Sec. 24 ALL
     Sec. 36 W2, SE, E2NE

NV-19-09-150  T. 31 N., R 33 E., 21 MDM, NV
     Sec. 2 LOTS 1-2, 20-21
     Sec. 18 LOTS 6-7, 16-17
Soil Slopes 15 - 50 percent
(NV-W-11-C-CSU)

**Stipulation:** Controlled Surface Use (CSU) Controlled Surface Use will be applied to lands with slopes greater than 15% and less than 50% (As mapped by the USGS 1:24,000 scale topographic maps or as determined by a BLM). Prior to surface disturbance on slopes greater than 15% a site-specific construction, stabilization, and reclamation 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:

- Soil stability is maintained preventing slope failure and wind or water erosion
- The site will be stable with no evidence of accelerated erosion features
- 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.
- 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.
- The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation.

**Objective [Purpose]:** To maintain soil productivity, provide necessary protection to prevent excessive soil erosion on steep slopes, to avoid areas subject to slope failure, mass wasting, piping, or having excessive reclamation problems, and to ensure successful interim and final reclamation.

**Exception:** The BLM authorized officer may grant an exception of 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 does not exceed 15%, so that the proposed action would not result in a failure to meet the performance standards listed above.

**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.

**Waiver:** The restriction may be waived if it is determined that the described lands do no do not include lands with slopes greater than 15%. This determination shall be based upon USGS mapping and a BLM evaluation of the area.
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NV-W-11-C-CSU
NV-19-09-070  T. 22 N., R 27 E., 21 MDM, NV  Sec. 2 ALL

NV-19-09-073  T. 27 N., R 27 E., 21 MDM, NV  Sec. 12 E2NE

NV-19-09-078  T. 45 N., R 27 E., 21 MDM, NV  Sec. 34 ALL  Sec. 35 ALL  T. 44 N., R 27 E., 21 MDM, NV  Sec. 3 LOTS 1-4  Sec. 3 S2NW  Sec. 4 ALL

NV-19-09-079  T. 45 N., R 27 E., 21 MDM, NV  Sec. 14 ALL  Sec. 15 ALL  Sec. 22 ALL  Sec. 23 ALL  Sec. 26 ALL  Sec. 27 ALL  Sec. 33 ALL

NV-19-09-083  T. 40 N., R 27 E., 21 MDM, NV  Sec. 15 ALL  Sec. 22 ALL  Sec. 23 SWNW, NWSW  Sec. 27 ALL

NV-19-09-084  T. 22 N., R 28 E., 21 MDM, NV  Sec. 32 NW, N2SW, SWSW

NV-19-09-085  T. 28 N., R 28 E., 21 MDM, NV  Sec. 22 ALL  Sec. 26 ALL  Sec. 34 S2, NW

NV-19-09-086  T. 40 N., R 28 E., 21 MDM, NV  Sec. 17 SWSE  Sec. 19 SENE, N2NE  Sec. 20 N2NW, SWNE

NV-19-09-118  T. 21 N., R 25 E., 21 MDM, NV  Sec. 10 N2SE  Sec. 22 ALL

NV-19-09-119  T. 22 N., R 25 E., 21 MDM, NV  Sec. 36 W2NW, SESE

NV-19-09-122  T. 21 N., R 27 E., 21 MDM, NV  Sec. 2 N2  Sec. 4 ALL  Sec. 6 LOTS 16-18, 21-23  Sec. 8 ALL  Sec. 10 LOTS 2-3

NV-W-11-C-CSU
NV-19-09-123  T. 22 N., R 27 E., 21 MDM, NV
  Sec. 4 ALL
  Sec. 10 N2, SW, W2SE
  Sec. 12 N2, N2S2, SWSW
  Sec. 24 LOTS 1-4
  Sec. 24 SW, W2E2, S2NW
  Sec. 34 LOTS 1-3
  Sec. 34 NESW, NWSEN2NW, NENE

NV-19-09-124  T. 31 N., R 33 E., 21 MDM, NV
  Sec. 34 E2NE

NV-19-09-125  T. 32N., R 33 E., 21 MDM, NV
  Sec. 24 LOTS 3-4
  Sec. 25 SWSW
  Sec. 26 E2E2, SWSE
  Sec. 36 NW

NV-19-09-126  T. 23 N., R 27 E., 21 MDM, NV
  Sec. 22 SESE
  Sec. 24 W2W2, NENW
  Sec. 25 E2, E2W2, SWNW, SWSW
  Sec. 32 LOTS 5-7, 9-10
  Sec. 32 NESW, NWSE, S2NE, NWNE
  Sec. 34 S2, SENE
  Sec. 36 ALL

NV-19-09-127  T. 23 N., R 28 E., 21 MDM, NV
  Sec. 20 W2SW, SESW, SWNW
  Sec. 30 ALL

NV-19-09-141  T. 21 N., R 27 E., 21 MDM, NV
  Sec. 8 ALL
  Sec. 10 LOTS 2-3
  Sec. 14 SE, NESW, SENE
  Sec. 18 LOTS 1-2, 7
  Sec. 18 NE, E2NW

NV-19-09-150  T. 31 N., R 33 E., 21 MDM, NV
  Sec. 1 ALL
  Sec. 2 LOTS 17, 21-33
  Sec. 14 W2
  Sec. 22 LOTS 1, 8-12

NV-W-11-C-CSU
Stipulation: No Surface Occupancy (NSO) 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 evaluation of the area).

Objective [Purpose]: To maintain soil productivity, provide necessary protection to prevent excessive soil erosion on steep slopes, to avoid areas subject to slope failure, mass wasting, piping, or having excessive reclamation problems.

Exception: The 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.

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.

Waiver: The restriction may be waived if it is determined that the described lands do not include lands with slopes greater than 50 percent. This determination shall be based upon USGS mapping and a BLM evaluation of the area.

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<tr>
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<th>Legal Land Description</th>
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<tbody>
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<td>NV-19-09-064</td>
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<td>Sec. 10 SE</td>
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<td>Sec. 18 LOT 7</td>
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</table>
Resource: Raptor Nest Sites  
(NV-W-06-B-TL)

Stipulation: Timing Limitation. 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 Act (MBTA). The following timing restrictions apply.

<table>
<thead>
<tr>
<th>Species</th>
<th>Location</th>
<th>Distance of Spatial Buffer Zone/Type of Restriction</th>
<th>Restriction Dates</th>
</tr>
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<tbody>
<tr>
<td>Bald eagle</td>
<td>Nests</td>
<td>1/4 mile non-los and 1/2 mile los and 1 mile blasting</td>
<td>Jan 1 - Aug 31</td>
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<tr>
<td></td>
<td>Winter roosts</td>
<td>1/2 mile</td>
<td>Dec. 1 - April 1</td>
</tr>
<tr>
<td>Northern goshawk</td>
<td>Nests (occupied)</td>
<td>1/4 mile</td>
<td>Feb 1 - Aug 31</td>
</tr>
<tr>
<td></td>
<td>Previous Years Nests</td>
<td>1/2 mile los</td>
<td>Feb 1 - Aug 31</td>
</tr>
<tr>
<td>Golden eagle</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile los</td>
<td>Feb 1 - Aug 31</td>
</tr>
<tr>
<td>Ferruginous hawk</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile los</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Red-tailed hawk</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>Mar 1 - August 31</td>
</tr>
<tr>
<td>Swainson's hawk</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile lose</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Prairie falcon</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Burrowing owl</td>
<td>Nests</td>
<td>1/4 mile- Permanent disturbance or occupancy, 260 feet temporary disturbance</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Flammulated owl</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>April 10 Sept. 30</td>
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</tbody>
</table>

Objective [Purpose]: To protect raptor nesting activities necessary to maintaining the critical life stages of existing raptor populations.

Exception: The Authorized Officer may grant an exception if an environmental review determines that the action, as proposed or otherwise restricted, does not adversely affect raptor nest sites being protected by the restriction. An exception may also be granted if the proponent, BLM, and other affected interests, in consultation with Nevada Department of Wildlife, negotiate mitigation that would satisfactorily offset the anticipated impacts. An exception may be granted for actions designed to enhance the long-term utility or availability of the habitat.
**Modification:** The boundaries of the stipulated area may be modified if the Authorized Officer, in consultation with Nevada Department of Wildlife, determines that portions of the area can be occupied without adversely affecting raptor nesting activity. The dates for the timing restriction may be modified if new information indicates the dates are not valid for the leasehold.

**Waiver:** The stipulation may be waived if the authorized officer, in consultation with Nevada Department of Wildlife determines that the entire leasehold no longer contains raptor nest sites.

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</table>
The undersigned (see page 2) offers to lease all or any of the lands in item 2 that are available for lease pursuant to the Geothermal Steam Act of 1970, as amended (30 U.S.C. 1001-1025).

READ INSTRUCTIONS BEFORE COMPLETING

1. Name
   Ormat Nevada Inc.
   6140 Plumas Street
   1b. City
   Reno
   1c. State
   NV
   Id. Zip Code
   89519

2. Surface managing agency if other than BLM: ___________________________ Unit/Project: ___________________________

Legal description of land requested (segregate by public domain and acquired lands): Enter T., R., Meridian, State and County

Total Acres Applied for ___________________________

Percent U.S. interest ___________________________

Amount remitted: ___________________________
Processing Fee $ ___________________________
Rental Fee $ ___________________________
Total $ ___________________________

DO NOT WRITE BELOW THIS LINE

3. Land included in lease: Enter T., R., Meridian, State and County
   T.0320N., R.0230E., 21 MDM, NV
   Sec. 015 LOTS 6-7;
   016 LOTS 2-6;
   016 NWNE;

Total Acres in Lease 250.450

Rental Retained $ 502.00

In accordance with the above offer, or the previously submitted competitive bid, this lease is issued granting the exclusive right to drill for, extract, produce, remove, utilize, sell, and dispose of all the geothermal resources in the lands described in Item 3 together with the right to build and maintain necessary improvements thereon, for a primary term of 10 years and subsequent extensions thereof in accordance with 43 CFR subpart 3207. Rights granted are subject to: applicable laws; the terms, conditions, and attached stipulations of this lease; the Secretary of the Interior’s regulations and formal orders in effect as of lease issuance; and, when not inconsistent with the provisions of this lease, regulations and formal orders hereafter promulgated.

Type of Lease:
☐ Competitive
☐ Noncompetitive
☐ Noncompetitive direct use (43 CFR subpart 3205)

Comments:
NV-20-10-001

THE UNITED STATES OF AMERICA

BY ________________
(Signing Official)

Kemba K. Anderson
(Printed Name)

Chief, Branch of Mineral Resources, Fluids
(Date)

EFFECTIVE DATE OF LEASE 12/01/2020

Check if this is a converted lease ☐

EFFECTIVE DATE OF LEASE CONVERSION

(Continued on page 2)
LEASE TERMS

Lessee must keep open at all reasonable times for inspection by any authorized officer of lessee, the leased premises and all wells, improvements, machinery, and fixtures thereon, and all books, accounts, maps, and records relative to operations, surveys, or inscriptions on or in the leased lands. Lessee must maintain copies of all contracts, sales agreements, accounting records, billing records, invoices, geothermal production and payment data regarding the sale, disposition, or use of geothermal resources, byproducts produced, and the use of electricity generated using resources produced from the lease, and all other information relevant to determining royalties or direct use fees. All such records must be maintained in lessee’s accounting offices for future audit by lessee and produced upon request by lessee or lessee’s authorized representative or agent. Lessee must maintain required records for 2 years after they are generated or, if an audit or investigation is underway, until released of the obligation to maintain such records by lessee.

Sec. 1. Details of premium—As each such oil or gas or portions of this lease are surrendered to lessee, lessee must place all wells in condition for suspension or abandonment, recline the land as specified by lessee, and within a reasonable period of time, remove equipment and improvements not deemed necessary by lessee for preservation of produces wells or condition protection of the environment.

Sec. 2. Transfer of leases interests and relinquishment of lease—As required by regulations, lessee must file with lessee any assignment or other transfer of interest in this lease. Subject to the requirements of 43 CFR subpart 3213, lessee may relinquish this lease or any legal subdivision therefrom under the provisions of the Act, the regulations, or other applicable requirements under 43 CFR 3280.4, and immediately action is required, the sooner any entry on the leased lands and take measures deemed necessary to correct the failure at the lessee’s expense.

Sec. 3. Heirs and successors-in-interest—Each obligation of this lease will extend to and be binding upon, and every hereafter shall issue to, the heirs, executors, administrators, successors, or assigns of the respective parties hereto.
INSTRUCTIONS

A. General

1. Items 1 and 2 need to be completed only by parties filing for a noncompetitive lease. The BLM will complete the front of the form for other types of leases. The BLM may use the "Comments" space under Item 3 to identify when: the lessee has elected to make all lease terms subject to the Energy Policy Act of 2005 under 43 CFR 3200.7(a)(2) or 43 CFR 3200.8(b) (box labeled "converted lease" must also be checked); the lease is being issued noncompetitively to a party who holds a mining claim on the same lands as is covered by the lease under 43 CFR 3204.12; the lease is a direct use lease issued to a State, local, or tribal government (box at section 2(e) under Lease Terms must also be checked); the lease is a competitive lease with direct-use-only stipulations attached; or other special circumstances exist. A lessee who seeks to convert only the royalty rate of a lease under 43 CFR 3212.25 or who qualifies for a case-by-case royalty rate determination under 43 CFR 3211.17(b)(1)(i) should not use this form, but should instead use an addendum to the existing lease.

2. Entries must be typed or printed plainly in ink. The offeror must sign the form (Item 4) in ink.

3. An original and two copies of this offer must be prepared and filed in the proper BLM State Office. See regulations at 43 CFR 1821.10 for office locations.

4. If more space is needed, additional sheets must be attached to each copy of the form submitted.

B. Specific

Item 1—Enter the offeror’s name and billing address.

Item 2—Indicate the agency managing the surface use of the land and the name of the unit or project of which the land is a part. The offeror may also provide other information that will assist in establishing status of the lands. The description of land must conform to 43 CFR 3203.10. Total acres applied for must not exceed that allowed by regulations (43 CFR 3203.10; 43 CFR 3206.12).

Payments: For noncompetitive leases, the amount remitted must include the processing fee for noncompetitive lease applications (43 CFR 3204.10; 43 CFR 3000.12) and the first year’s rental at the rate of $1 per acre or fraction thereof. If the United States owns only a fractional interest in the geothermal resources, you must pay a prorated rental under 43 CFR 3211.11(d). The BLM will retain the processing fee even if the offer is completely rejected or withdrawn. To maintain the offeror’s priority, the offeror must submit rental sufficient to cover all the land requested. If the land requested includes lots or irregular quarter-quarter sections, the exact acreage of which is not known to the offeror, rental should be submitted on the assumption that each such lot or quarter-quarter section contains 40 acres. If the offer is withdrawn or rejected in whole or in part before a lease issues, the BLM will return the rental remitted for the parts withdrawn or rejected.

The BLM will fill in the processing fee for competitive lease applications (43 CFR 3203.17, 43 CFR 3000.12) and the first year’s rental at the rate of $2 per acre or fraction thereof.

Item 3—The BLM will complete this space.

NOTICES

The Privacy Act of 1974 and the regulation at 43 CFR 2.48(d) provide that you be furnished with the following information in connection with information required by this geothermal lease application.

AUTHORITY: 30 U.S.C. 1000 et seq.

PRINCIPAL PURPOSE—The information is to be used to process geothermal lease applications.

ROUTINE USES: (1) The adjudication of the lessee’s rights to the land or resources. (2) Documentation for public information in support of notations made on land status records for the management, disposal, and use of public lands and resources. (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting uses or rights in public lands or resources. (4) Transfer to the appropriate Federal, State, local, or foreign agencies, when relevant to civil, criminal, or regulatory investigations or prosecutions.
BLM Nevada Standard Lease Notices
(NV-B,C,W-00-A-LN)

These lease notices apply to all parcels all lands and represent standard Best Management Practices for ensuring compliance with extant Federal Laws and resource protection.

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

Migratory Birds
The Operator is responsible for compliance with provisions of the Migratory Bird Treaty Act by implementing measures to prevent take of migratory birds. Operators should be aware that any ground clearing or other disturbance (such as creating cross-country access to sites, drilling, and/or construction) during the migratory bird (including raptors) nesting season (March 1 - July 31) risks a violation of the Migratory Bird Treaty Act. Disturbance to nesting migratory birds should be avoided by conducting surface disturbing activities outside the migratory bird nesting season.

If surface disturbing activities must be implemented during the nesting season, a preconstruction survey for nesting migratory birds should be performed by a qualified wildlife biologist, during the breeding season (if work is not completed within a specified time frame, then additional surveys may be needed). If active nests are found, an appropriately-sized no surface disturbance buffer determined in coordination with the BLM biologist should be placed on the active nest until the nesting attempt has been completed. If no active nests are found, construction activities must occur within the survey validity time frame specified in the conditions of approval.

Cultural Resources and Tribal Consultation
This lease may be found to contain historic properties and/or resources protected under the National Historic Preservation Act (NHPA), American Indian Religious Freedom Act, Native American Graves Protection and Repatriation Act, Executive Order 13007, or other statutes and executive orders. The BLM will not approve any ground-disturbing activities that may affect any such properties or resources until it completes its obligations (e.g., State Historic Preservation Officer (SHPO) and tribal consultation) under applicable requirements of the NHPA and other authorities. The BLM may require modification to
exploration or development proposals to protect such properties, or disapprove any activity that is likely to result in adverse effects that cannot be successfully avoided, minimized, or mitigated.

Fossils

This area has low to moderate potential for vertebrate paleontological resources, unless noted to have higher potential in a separate stipulation. This area may contain vertebrate paleontological resources. Inventory and/or on-site monitoring during disturbance or spot checking may be required of the operator. In the event that previously undiscovered paleontological resources are discovered in the performance of any surface disturbing activities, the item(s) or condition(s) will be left intact and immediately brought to the attention of the authorized officer of the BLM. Operations within 250 feet of any such discovery will not be resumed until written authorization to proceed is issued by the Authorized Officer. The lessee will bear the cost of any required paleontological appraisals, surface collection of fossils, or salvage of any large conspicuous fossils of significant scientific interest discovered during the operations.

Water

The Operator is responsible for compliance with provisions of the Clean Water Act, Safe Drinking Water Act, and applicable State laws and regulations regarding protection of state water resources. Operators should contact Nevada Division of Water Resources and Nevada Division of Environmental Protection regarding necessary permits and compliance measures for any construction or other activities.

Mining Claims

This parcel may contain existing mining claims and/or mill sites located under the 1872 Mining Law. To the extent it does, the geothermal lessee must conduct its operations, so far as reasonably practicable, to avoid damage to any known deposit of any mineral for which any mining claim on this parcel is located, and should not endanger or unreasonably or materially interfere with the mining claimant's operations, including any existing surface or underground improvements, workings, or facilities which may have been made for the purpose of mining operations. The provisions of the Multiple Mineral Development Act (30 U.S.C. 521 et seq.) shall apply on the leased lands.

Fire

The following precautionary measures should be taken to prevent wildland fires. In the event your operations should start a fire, you could be held liable for all suppression costs.

- All vehicles should carry fire extinguishers and a minimum of 10 gallons of water.
- Adequate fire-fighting equipment i.e. shovel, pulaski, extinguisher(s) and a minimum 10 gallons of water should be kept at the drill site(s).
- Vehicle catalytic converters should be inspected often and cleaned of all brush and grass debris.
- When conducting welding operations, they should be conducted in an area free from or mostly free from vegetation. A minimum of 10 gallons water and a shovel should be on hand to extinguish any fires created from the sparks. Extra personnel should be at the welding site to watch for fires created by welding sparks.
- Report wildland fires immediately to the BLM Central Nevada Interagency Dispatch Center (CNIDC) at (775) 623-3444. Helpful information to reported is location (latitude and longitude if possible), what's burning, time started, who/what is near the fire and direction of fire spread.

- When conducting operations during the months of May through September, the operator must contact the BLM Battle Mountain District Office, Division of Fire and Aviation at (775) 635-4000 to find out about any fire restrictions in place for the area of operation and to advise this office of approximate beginning and ending dates for your activities.
Pronghorn Antelope Seasonal Habitat  
(#NV-W-01-A-TL)

**Stipulation:** Timing Limitation (TL) - No surface activity within Pronghorn Antelope Crucial Winter Habitat from November 15 through April 30.

**Objective [Purpose]:** To protect Pronghorn Antelope Crucial Winter Habitat necessary to maintaining the critical life stages of Pronghorn wildlife populations.

**Exception:** The Authorized Officer may grant an exception if an environmental review determines that the action, as proposed or otherwise restricted, does not adversely affect the Pronghorn Antelope and its habitat. An exception may also be granted if the proponent, BLM, and other affected interests negotiate mitigation that would satisfactorily offset the anticipated impacts to Pronghorn Antelope and its habitat. An exception may be granted for actions designed to enhance the long-term utility or availability of the habitat.

**Modification:** The boundaries of the stipulated area may be modified if the authorized officer, in consultation with Nevada Department of Wildlife, determines that portions of the area no longer contain the crucial winter pronghorn habitat or that the proposed action would not affect the species and habitat. The dates for the timing restriction may also be modified by the Authorized Officer if new information indicates the dates are not valid for the leasehold.

**Waiver:** The restriction may be waived by the Authorized Officer if it is determined that the described lands do not contain suitable pronghorn habitat, or are otherwise incapable of serving the requirements of for the species and therefore no longer warrant consideration as a component necessary for their protection.

**Parcel #**

<table>
<thead>
<tr>
<th>Parcel #</th>
<th>Legal Land Description</th>
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</thead>
</table>
| NV-20-10-001 | T.0320N, R.0230E, 21 MDM, NV  
Sec. 016  LOT 2;  
016 NWNE; |
Resource: Raptor Nest Sites  
(NV-W-06-B-TL)

**Stipulation:** Timing Limitation. 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 Act (MBTA). The following timing restrictions apply.

<table>
<thead>
<tr>
<th>Species</th>
<th>Location</th>
<th>Distance of Spatial Buffer Zone/Type of Restriction</th>
<th>Restriction Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bald eagle</td>
<td>Nests</td>
<td>1/4 mile non-los and 1/2 mile los and 1 mile blasting</td>
<td>Jan 1 - Aug 31</td>
</tr>
<tr>
<td></td>
<td>Winter roosts</td>
<td>1/2 mile</td>
<td>Dec. 1 - April 1</td>
</tr>
<tr>
<td>Northern goshawk</td>
<td>Nests (occupied)</td>
<td>1/4 mile</td>
<td>Feb 1 - Aug 31</td>
</tr>
<tr>
<td></td>
<td>Previous Years Nests</td>
<td>1/2 mile los</td>
<td>Feb 1 - Aug 31</td>
</tr>
<tr>
<td>Golden eagle</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile los</td>
<td>Feb 1 - Aug 31</td>
</tr>
<tr>
<td>Ferruginous hawk</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile los</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Red-tailed hawk</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>Mar 1 - August 31</td>
</tr>
<tr>
<td>Swainson's hawk</td>
<td>Nests</td>
<td>1/4 mile non-los, 1/2 mile lose</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Prairie falcon</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Burrowing owl</td>
<td>Nests</td>
<td>1/4 mile - Permanent disturbance or occupancy, 260 feet temporary disturbance</td>
<td>Mar. 1 - August 31</td>
</tr>
<tr>
<td>Flammulated owl</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>April 10 Sept. 30</td>
</tr>
</tbody>
</table>

**Objective [Purpose]:** To protect raptor nesting activities necessary to maintaining the critical life stages of existing raptor populations.

**Exception:** The Authorized Officer may grant an exception if an environmental review determines that the action, as proposed or otherwise restricted, does not adversely affect raptor nest sites being protected by the restriction. An exception may also be granted if the proponent, BLM, and other affected interests, in consultation with Nevada Department of Wildlife, negotiate mitigation that would satisfactorily offset the anticipated impacts. An exception may be granted for actions designed to enhance the long-term utility or availability of the habitat.
Modification: The boundaries of the stipulated area may be modified if the Authorized Officer, in consultation with Nevada Department of Wildlife, determines that portions of the area can be occupied without adversely affecting raptor nesting activity. The dates for the timing restriction may be modified if new information indicates the dates are not valid for the leasehold.

Waiver: The stipulation may be waived if the authorized officer, in consultation with Nevada Department of Wildlife determines that the entire leasehold no longer contains raptor nest sites.

<table>
<thead>
<tr>
<th>Parcel #</th>
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</thead>
<tbody>
<tr>
<td>NV-20-10-001</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-20-10-004</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-20-10-022</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-20-10-024</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-20-10-029</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-20-10-030</td>
<td>ALL LANDS</td>
</tr>
</tbody>
</table>
Trails
(#NV-W-07-D-NSO)

Stipulation: No Surface Occupancy (NSO) will be applied directly on National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation and within National Trail Management Corridors. NSO may be applied to additional bordering lands; the extent will be dependent upon the topography and integrity of the setting surrounding individual trail segments along the designated NHT and National Historic Trail Corridor. Prior to the establishment of a National Trail Management Corridor, at a minimum, NSO will be applied 1/8-mile on either side of the center line of the trail (for a total of a 1/4-mile wide corridor). The center line will be established either through the GIS-based line provided by the Trail Administering Agency (NPS or BLM) or through GPS-based inventories uploaded on the Nevada Cultural Resource Inventory System (NVCRIS).

Objective [Purpose]: To protect the National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation, and National Trail Management Corridor resources, qualities, values, and associated settings.

Exception: The Authorized Officer may grant an exception if, through the National Historic Preservation Act (NHPA) and Management of National Scenic and Historic Trails and Trails Under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements, it is determined that the action, as proposed or otherwise restricted, does not adversely affect the resource. An exception may be granted for actions designed to enhance the long-term utility or availability of the trail.

Modification: The Authorized Officer may modify the size and shape of the restricted area if the NHPA and Management of National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements indicate the proposed action does not adversely impact the resource.

Waiver: The restriction may be waived if the NHPA and Management of National Scenic and Historic Trails and Trails under Study or Recommended as Suitable for Congressional Designation Manual 6280 requirements determine that the described lands are not contributing elements to the resource. This determination can only come after consultation with the National Park Service, Nevada State Historic Preservation Office and other interested publics.

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>NV-20-10-001</td>
<td>T.0320N, R.0230E, 21 MDM, NV</td>
</tr>
<tr>
<td></td>
<td>Sec. 015 LOTS 6-7;</td>
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<tr>
<td></td>
<td>016 LOTS 2-6;</td>
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<tr>
<td></td>
<td>016 NWNE;</td>
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<td>NV-20-10-004</td>
<td>T.0210N, R.0250E, 21 MDM, NV</td>
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<td>Sec. 002 LOTS 1-2;</td>
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<tr>
<td></td>
<td>002 S2NE,SE;</td>
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<td>NV-20-10-029</td>
<td>T.0350N, R.0430E, 21 MDM, NV</td>
</tr>
</tbody>
</table>
Sec. 020 ALL;
  028 NWNE, N2NW, SWNW, W2SW;
  032 E2NE;

NV-20-10-030

T.0350N, R.0430E, 21 MDM, NV
Sec. 022 ALL;
  028 NENE, S2NE, SENW, E2SW, SE;
  032 W2NE, N2NW;
Soil Slopes 15 - 50 percent  
(#NV-W-11-C-CSU)

**Stipulation:** Controlled Surface Use (CSU) Controlled Surface Use will be applied to lands with slopes greater than 15% and less than 50% (As mapped by the USGS 1:24,000 scale topographic maps or as determined by a BLM). Prior to surface disturbance on slopes greater than 15% a site-specific construction, stabilization, and reclamation 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:

- Soil stability is maintained preventing slope failure and wind or water erosion
- The site will be stable with no evidence of accelerated erosion features
- 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.
- 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.
- The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation.

**Objective [Purpose]:** To maintain soil productivity, provide necessary protection to prevent excessive soil erosion on steep slopes, to avoid areas subject to slope failure, mass wasting, piping, or having excessive reclamation problems, and to ensure successful interim and final reclamation.

**Exception:** The BLM authorized officer may grant an exception of 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 does not exceed 15%, so that the proposed action would not result in a failure to meet the performance standards listed above.

**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.

**Waiver:** The restriction may be waived if it is determined that the described lands do no do not include lands with slopes greater than 15%. This determination shall be based upon USGS mapping and a BLM evaluation of the area.

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<tbody>
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<td>T.0320N, R.0230E, 21 MDM, NV</td>
</tr>
<tr>
<td></td>
<td>Sec. 016 LOT 2;</td>
</tr>
<tr>
<td></td>
<td>016 NWNE;</td>
</tr>
</tbody>
</table>
NV-20-10-024  T.0260N, R.0370E, 21 MDM, NV
     Sec. 025  S2;
     34    SE;
     35    ALL;
     36    ALL;

NV-20-10-004  T.0210N, R.0250E, 21 MDM, NV
     Sec. 002 LOTS 1-2;
     002  S2NE,SE;

NV-20-10-022  T.0360N, R.0330E, 21 MDM, NV
     Sec. 014 NENE; SWNE; NENW; SENE
     022  NENW;
     026  SWNE; NESW; NESW;

NV-20-10-030  T.0350N, R.0430E, 21 MDM, NV
     Sec. 032 W2NE, N2NW;