OPERATIONS PLAN
(43 CFR SUBPART 3250)

GERLACH
GEOTHERMAL EXPLORATION PROJECT

FEDERAL GEOTHERMAL LEASES:
NVN-55718
NVN-75228
NVN-98640
NVN-98641
NVN-100029

WASHOE COUNTY, NEVADA

OCTOBER 2021

APPLICANT:
ORNI 26 LLC
6140 PLUMAS ST
RENO, NV 89519
GERLACH GEOThermal EXPLORATION PROJECT
ORNI 26 LLC
OPERATIONS PLAN

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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.

Some of 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>NVN-55718</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>NVN-75228</td>
<td>T.32N., R.23E.</td>
<td>All or portions of Sections 3, 4, 10</td>
<td>1,521</td>
</tr>
<tr>
<td>NVN-98640</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>NVN-98641</td>
<td>T.32N., R.23E.</td>
<td>All or portions of Sections 13, 14, 16, 17, 18, 19, 20, 21</td>
<td>1,640</td>
</tr>
<tr>
<td>NVN-100029</td>
<td>T.32N., R.23E.</td>
<td>All or portions of Sections 15, 16</td>
<td>251</td>
</tr>
</tbody>
</table>

1.2 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.
2.0 PROJECT DESCRIPTION

2.1 Geothermal Well Field

2.1.1 Well Field Location

Ormat expects that up to 21 geothermal exploration wells would be drilled and tested within the federal geothermal leases (Figures 3 and 4; Table 2).

Table 2: 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>NVN-98641</td>
<td>Section 21, NW ¼ of NW ¼</td>
<td>298121</td>
</tr>
<tr>
<td>12-15</td>
<td>NVN-55718</td>
<td>Section 15, Lot 2 (NW ¼ of NW ¼)</td>
<td>299683</td>
</tr>
<tr>
<td>15-10</td>
<td>NVN-75228</td>
<td>Section 10, NW ¼ of SW ¼</td>
<td>299771</td>
</tr>
<tr>
<td>18B-10</td>
<td>NVN-75528</td>
<td>Section 10, Lot 1 (SW ¼ of SW ¼)</td>
<td>299754</td>
</tr>
<tr>
<td>24-10</td>
<td>NVN-75228</td>
<td>Section 10, SW ¼ of NW ¼</td>
<td>299887</td>
</tr>
<tr>
<td>37-16</td>
<td>NVN-98641</td>
<td>Section 16, SE ¼ of SW ¼</td>
<td>298549</td>
</tr>
<tr>
<td>45-16</td>
<td>NVN-100029</td>
<td>Section 16, Lot 3 (NW ¼ of SE ¼)</td>
<td>298971</td>
</tr>
<tr>
<td>58-3</td>
<td>NVN-75228</td>
<td>Section 3, SW ¼ of SE ¼</td>
<td>300605</td>
</tr>
<tr>
<td>61-16</td>
<td>NVN-100029</td>
<td>Section 16, NW ¼ of NE ¼</td>
<td>299100</td>
</tr>
<tr>
<td>62-20</td>
<td>NVN-98641</td>
<td>Section 20, NW ¼ of NE ¼</td>
<td>297491</td>
</tr>
<tr>
<td>63-3</td>
<td>NVN-75228</td>
<td>Section 3, SW ¼ of NE ¼</td>
<td>300920</td>
</tr>
<tr>
<td>66-3</td>
<td>NVN-75228</td>
<td>Section 3, NW ¼ of SE ¼</td>
<td>300756</td>
</tr>
<tr>
<td>67-16</td>
<td>NVN-100029</td>
<td>Section 16, Lot 6 (SW ¼ of SE ¼)</td>
<td>299157</td>
</tr>
<tr>
<td>68-9</td>
<td>NVN-55718</td>
<td>Section 9, SW ¼ of SE ¼</td>
<td>299162</td>
</tr>
<tr>
<td>71-3</td>
<td>NVN-75228</td>
<td>Section 3, Lot 1 (NE ¼ of NE ¼)</td>
<td>301116</td>
</tr>
<tr>
<td>73-16</td>
<td>NVN-55718</td>
<td>Section 16, Lot 1 (SE ¼ of NE ¼)</td>
<td>299389</td>
</tr>
<tr>
<td>75-9</td>
<td>NVN-55718</td>
<td>Section 9, NE ¼ of SE ¼</td>
<td>299415</td>
</tr>
<tr>
<td>77-9</td>
<td>NVN-55718</td>
<td>Section 9, SE ¼ of SE ¼</td>
<td>299291</td>
</tr>
<tr>
<td>82-16</td>
<td>NVN-55718</td>
<td>Section 16, NE ¼ of NE ¼</td>
<td>299502</td>
</tr>
<tr>
<td>86-16</td>
<td>NVN-100029</td>
<td>Section 16, Lot 4 (NE ¼ of SE ¼)</td>
<td>299586</td>
</tr>
<tr>
<td>87-9</td>
<td>NVN-55718</td>
<td>Section 9, SE ¼ of SE ¼</td>
<td>299607</td>
</tr>
</tbody>
</table>

¹ All wells are located in T.32N., R.23E., Mount Diablo Baseline and Meridian
UTM = Universal Transverse Mercator
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 44.1 acres (2.1 ac./pad * 21 pads).

Drill pad preparation activities would include clearing, earthwork, drainage, and other improvements necessary for efficient and safe operation and for fire prevention. 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 and has been designed for a 100-year storm.

Reserve pits would be constructed in accordance with best management practices identified in the “Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (The Gold Book)” (Fourth Edition – Revised 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 to prevent access by persons, wildlife, or livestock (Figure 6). The fence 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 3.
### Table 3: 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)(^1)</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>45(^2)</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 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” (comparable in size to a double-wide trailer, containing sleeping quarters, galley, water tank, and septic tank) or portable trailers. These quarters 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. Depending on the circumstances encountered, working over a well may consist of lifting the fluid in the well column with air or gas or stimulation of the formation using dilute acid or rock fracturing techniques.

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 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 4 (Figures 3 and 4):

<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>4,218</td>
<td>0.8</td>
<td>2.0</td>
</tr>
<tr>
<td>Improved Road</td>
<td>11,959</td>
<td>2.3</td>
<td>2.7</td>
</tr>
<tr>
<td>Total</td>
<td>16,177</td>
<td>3.1</td>
<td>4.7</td>
</tr>
</tbody>
</table>

Table 4: Road Construction Lengths and Disturbance Totals
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 (4,218 feet of road * 20-foot-wide surface). Total estimated area of surface disturbance required for improvements to existing access roads would be approximately 2.7 acres (11,959 feet of existing road * 10-foot-wide additional surface disturbance). In sum, it is estimated that a total of 4.7 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).

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, 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 Nevada Administrative Code 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 GGID.

2.4 Aggregate Requirements and Source

Aggregate material would be obtained from one of two sources: the preferred source would be through a BLM minerals material contract for an existing aggregate pit northwest of Gerlach, and the secondary source would be from a private aggregate pit located east of Transfer Station Road (Figures 3 and 4, Table 5).
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 42,000 cubic yards (approximately 2,000 cubic yards/pad * 21 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 2,996 cubic yards (approximately 3.1 miles of access roads * 15-foot width * 4-inch depth).

Total aggregate required for the well pad and access road construction is estimated at 44,996 cubic yards.

### 2.5 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, but would eventually 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.

### 2.6 Summary of Surface Disturbance

Total surface disturbance for the Project would be approximately 53.8 acres (Table 6).

**Table 6: Maximum Project Surface Disturbance**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Maximum Surface Disturbance (acres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Pads</td>
<td>44.1</td>
</tr>
<tr>
<td>New Road Construction</td>
<td>2.0</td>
</tr>
<tr>
<td>Existing Road Improvement</td>
<td>2.7</td>
</tr>
<tr>
<td>Proposed Aggregate Pit</td>
<td>5.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>53.8</strong></td>
</tr>
</tbody>
</table>
3.0 ENVIRONMENTAL PROTECTION

3.1 Adopted Environmental Protection Measures

Ormat would comply with all special lease stipulations attached to leases NVN-55718, NVN-75228, NVN-98640, NVN-98641, and NVN-100029, 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. Any small fires which occur around the well pad during drilling and/or testing operations should be able to 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.

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 and has been designed for a 100-year storm event.

3.4 Wildlife Protection

Erosion control 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. Any topsoil enriched in organic material 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 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. The Project is located outside of residential areas and would not likely cause 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) Accidental geothermal fluid spills or discharges are very unlikely because the hole would be cased, and blowout prevention equipment would be utilized. However, 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 are unlikely, but 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) A discharge of this type would probably be very small and from equipment used in
   the field. 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. 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:

NDOM  
State of Nevada  
400 W. King  
Carson City, NV 89703  
775.684.7040

NDEP  
Division of Emergency Management  
2525 Carson St.  
Carson City, NV 89711  
775.687.4240

BLM Winnemucca District Office  
(Within 24 hours of the knowledge of a reportable release)  
5100 E. Winnemucca Blvd.  
Winnemucca, NV 89445  
775.623.1500

National Response Center  
800.424.8802

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

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.
Gerlach Geothermal Exploration Project
Washoe County, Nevada, USA

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

Figure 1: Project Vicinity Map
Figure 4: Proposed Action Map (Aerial)
Figure 5: Well Pad Layout and Design
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
OCCER 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. 1011-1025).

Read Instructions Before Completing

1. Name
   San Emidio Resources Inc.

   Street
   P.O. Box 40

   City, State, Zip Code
   Empire, NV 89405

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

Legal description of land requested (aggregations by public domain and acquired lands):

T. R. Meridian State County

Total acres applied for ____________________________

Percent U.S. Interest ____________________________

Total $ ____________________________

3. Land included in lease:

DO NOT WRITE BELOW THIS LINE

T. R. Meridian State County

T. 32 N., R. 23 E., MDH, Nevada, Washoe County

sec. 09, all;
sec. 10, W1/4NE1/4, E1/4NW1/4, NE1/4SW1/4, SE1/4;
sec. 15, lots 1, 2, 3, E1/4NE1/4, W1/4SE1/4SW1/4;
sec. 16, lot 1, NE1/4NW1/4.

PARCEL NO. 3 - Gerlach KGRA

Record Plated
MT Plat
CC Plat
USG Plat
NI Plat
CDI Filming

Date By

In accordance with the above offer or the previously submitted competitive bid, this lease is instead 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. Rights granted are subject to applicable laws, the terms, conditions, and annulled 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.

THE UNITED STATES OF AMERICA

[Signature]
Acting Dir., Bureau of Land & Minerals Operations

[Date]

EFFECTIVE DATE OF LEASE JUL 01 1982

[Signature]
[Date]

Original Offer to Lease and Lease for Geothermal Resources

Serial No. N 5 5 7 1 8

Amounts received: Filing fee $ ____________________________
Rental fee $ ____________________________
Total $ ____________________________

Total acres in lease 1261.93

Rental retained $ 2504.00
George Vrane
5518 W. 95th Street
Oak Lawn, IL 60453

RECEIVED

BUREAU OF LAND MANAGEMENT

NEVADA STATE OFFICE
RENO, NEVADA

10 A.M. OCT 2 2001

PARCEL NO. NV-07-01-09-008

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

sec. 02, lots 1-4, S2N2, S2;
sec. 03, lots 1-4, S2N2, S2;
sec. 04, lots 1-4, S2N2, S2;
sec. 10, lots 1, E2N, W2N, NW

163.46 Acres

Washoe County

EXHIBIT A
CONTINGENCY RIGHTS STIPULATION

The Bureau of Land Management has reviewed existing information and planning documents and, except as noted in other attached stipulations, views of regulation, impact, development, and use on the leased lands. However, specific development activities could not be identified prior to lease issuance since the views of the owner and action of the natural resources were not known and specific stipulations have not been proposed. The leases are hereby made aware that consistent with 43 C.F.R. 3240.4, all post lease activities will be subject to appropriate environmental review and may be suspended for any cause, including but not limited to, unutilizable or significant impacts on other land use or resources would result.

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

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

Nesting Habitat and Brood-rearing habitats: (April through August per Interim 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 within 1 km (0.6 miles) of known habitat. Where possible, NSO of any sort on such sites during the specified period.

Potential: Avoid permanent occupancy of potential habitat where possible.

Winter Habitat: (October through March) Known: Avoid all development or operation activity during the winter range season with 1 km (0.6 miles) of known habitat. Where possible, NSO of any sort on such sites during the specified period.

Potential: Avoid permanent occupancy of potential habitat where possible.

Geothermal Sage Grouse Stipulations: Prior to entry on any lease area that includes known or potential habitat, the lessee (operator) shall contact the appropriate BLM Authorized Officer to determine any proposed activity. All power pads shall be designed or constructed to eliminate or reduce the potential for known habitat and shall be maintained as soon as possible to such a way as to result in conditions suitable for Sage Grouse habitat.

RECEIVED

[Signature]
[Date]

Nevada State Office
Reno, Nevada

When Received mail to
George Vorden
5618 W. 95th 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

1. Name
   Ormat Nevada Inc

1a. Street
   6140 Plumas St

1b. City
   Reno

1c. State
   NV

1d. 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.0330N, R.0230E, 21 MDM, NV
     Sec. 024 SW;
     025 S2SW, SE;
     025 NE, N2NW, SENW, NESW;
     026 S2SW, S2SE;
     T.0330N, R.0230E, 21 MDM, NV
     Sec. 031 LOTS 6-10;
     031 SE;
     032 SW;
     033 SE;
     T.0330N, R.0230E, 21 MDM, NV
     Sec. 034 NE, S2;
     035 ALL;
     036 ALL;

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 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-19-09-064

BY

Kemba K. Anderson
(Signing Official)

(Printed Name)

Chief, Branch of Mineral Resources, Fluids

OCT 1 6 2019

(Title)

(Nov. 01, 2019)

EFFECTIVE DATE OF LEASE

Check if this is a converted lease ☐

EFFECTIVE DATE OF LEASE CONVERSION

LESSEE

(Continued on page 2)
LEASE TERMS

Lease must keep open at all reasonable times for inspection by any authorized officer of lessor, the leased premises and all wells, improvements, machinery, and fixtures therein, 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 geothermal 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 records for 6 years after they are generated or, if an audit or investigation is underway, until released 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 uses or users. Lessor must take reasonable measures deemed necessary by lessor to accomplish the intent of this section. To the extent consistent with leased rights granted, such measures may include, but are not limited to, modification 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 lease to be apprised of procedures to be followed and modifications or reclamation measures that may be necessary. Amus shall 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, lessor must immediately contact lessor. Lessor 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 geothermal resources from these leased lands is unsuitable for producing a valuable byproduct or byproduct, including commercially denaturalized water for beneficial uses in accordance with applicable state water laws, lessor may require substantial beneficial production or use thereby by lessor.

Sec. 8. Damages to property—Lessor 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 sound 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 subtitle 32D, lessee 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 and surety to be responsible for: paying all accrued rentals and royalties; plugging and abandoning all wells on the relinquished land; restoring and reclaiming the surface and other resources; and complying with 43 CFR 320.4.

Sec. 11. Delivery of premises—At such time as all or portions of these leases are returned to lessor, lessee must place all wells in condition for suspension or abandonment, reclaim the land as specified by lessee, and within a reasonable period of time, remove equipment and improvements not deemed necessary by lessor for preservation of productive wells or continued protection of the environment.

Sec. 12. Proceedings in case of default—If lessee fails to comply with any provisions of this lease or other applicable requirements under 43 CFR 320.4, 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 exercise 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 this Act, the lease, the regulations, or other applicable requirements under 43 CFR 320.4, and immediate action is required to prevent harm, the lessee may enter on the leased lands and take measures deemed necessary to correct the failure at the lessor’s expense.

Sec. 13. Heliis and successors in interest—Each obligation of this lease will extend to and bind successors, and, even when hereafter in trust to the heirs, executors, administrators, successors, or assigns of the respective parties hereof.

(Continued on page 3)
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,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.

<table>
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| NV-19-09-062 | T. 32 N., R 23 E., 21 MDM, NV  
Sec. 05 LOTS 1-4  
Sec. 05 S2N2, SE, E2SW, NWSW  
Sec. 08 NE, E2SE |
| NV-19-09-063 | T. 32 N., R 23 E., 21 MDM, N  
Sec. 16 NW |
| NV-19-09-064 | T. 33 N., R 23 E., 21 MDM, NV  
Sec. 24 SW  
Sec. 31 SE  
Sec. 32 SW |
| NV-19-09-065 | T. 33 N., R 24 E., 21 MDM, NV  
Sec. 18 NW |
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 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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<td>Sec. 32 L1, L2, L7, L8, N2SE, SESE</td>
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<td>NV-19-09-029</td>
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<td>Sec. 28 W2SW, NWSE</td>
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<td>Sec. 29 L1, SWSW</td>
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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, S2NW

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 |
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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| NV-19-09-054 | T. 22 N., R 28 E., 21 MDM, NV  
|            | Sec. 1 ALL             |
|            | Sec. 2 ALL             |
|            | Sec. 10 E2             |
|            | Sec. 12 ALL            |
|            | Sec. 14 E2, NW, NESW   |

| NV-19-09-055 | T. 22 N., R 28 E., 21 MDM, NV  
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| NV-19-09-060 | T. 32 N., R 23 E., 21 MDM, NV  
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-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

NV-W-07-D-NSO
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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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, SESW;

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
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| 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 SWSE, 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.

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| NV-19-09-064 | T. 33 N., R 23 E., 21 MDM, NV  
Sec. 24 N2SW  
Sec. 26 S2SW  
Sec. 33 SE  
Sec. 34 S2, NE |
| NV-19-09-065 | T. 32 N., R 24 E., 21 MDM, NV  
Sec. 18 ALL |
| NV-19-09-086 | T. 40 N., R 28 E., 21 MDM, NV  
Sec. 17 S2SE  
Sec. 19 E2NE  
Sec. 20 N2 |
| NV-19-09-118 | T. 21 N., R 25 E., 21 MDM, NV  
Sec. 10 SE  
Sec. 22 NW, N2SW |
| NV-19-09-119 | T. 22 N., R 25 E., 21 MDM, NV  
Sec. 36 NW, NWSW |
| NV-19-09-124 | T. 31 N., R 33 E., 21 MDM, NV  
|               | Sec. 32 E2SW, SENVW |
| 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, NENW |
| 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>
</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>
<th>Legal Land Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NV-19-09-001</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-002</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-028</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-029</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-037 THRU</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-040</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-051</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-053 THRU</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-070</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-073 THRU</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-081</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-083 THRU</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-086</td>
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<tr>
<td>NV-19-09-109</td>
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<tr>
<td>NV-19-09-118 THRU</td>
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<tr>
<td>NV-19-09-127</td>
<td>ALL LANDS</td>
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<tr>
<td>NV-19-09-129 THRU</td>
<td>ALL LANDS</td>
</tr>
<tr>
<td>NV-19-09-131</td>
<td>ALL LANDS</td>
</tr>
</tbody>
</table>
OFFER TO LEASE AND LEASE FOR GEOTHERMAL RESOURCES
(For New Leases Issued Under the Energy Policy Act of 2005 [August 5, 2005])

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

1b. City
   Reno

1c. State
   NV

1d. 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;

   T.0320N, R.0230E, 21 MDM, NV
   Sec. 021 ALL;
   021 E2, E2NW, E2SW;

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 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

(Printed Name)

Chief, Branch of Mineral Resources, Fluids

(EFFECTIVE DATE OF LEASE)

(EFFECTIVE DATE OF LEASE CONVERSION)

(Continued on page 2)
LEASE TERMS

See 1. Rent—Rents must be paid to the proper office of the lessor. Royalties are due on the last 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 1.25 percent in the first 10 years of production and 3.5 percent after the first 10 years. The royalty rate is to be applied to the gross proceeds derived from the sale of electricity in accordance with 40 CFR part 206 subpart H.

See 2. Royalties—Royalties must be paid to the proper office of the lessor. Royalties are due on the last 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 1.25 percent in the first 10 years of production and 3.5 percent after the first 10 years. The royalty rate is to be applied to the gross proceeds derived from the sale of electricity in accordance with 40 CFR part 206 subpart H.

See 5. Bonds—A bond must be filed and maintained for lease operations as required by applicable regulations.

See 6. Work requirements, rate of development, unitization, and drainage—Lessor must perform work requirements in accordance with applicable regulations (43 CFR 320.31, 320.12), and must prevent unnecessary damages to, loss of, or waste of leased resources. Lessor reserves the right to specify rates of development and production and to require lessee to submit a communication or unit agreement, within 30 days of notice, if the public interest. Lessor must drill and produce wells necessary to protect leased lands from drainage or pay compensatory royalty for drainage in the amount determined by lessee. Lessor will not prevent excessive work requirements only where the lessee overestimates the amount of oil or gas and is not limited to direct use leases. Direct use fees are due on the last day of the month following the month of production.

See 7. Production of hydropower—If the production, use, or conversion of geothermal resources from these leased lands is capable of producing a valuable hydropower or hydroelectric, including commercially demineralized water for beneficial uses in accordance with applicable State water laws, lessee may require substantial beneficial production or use thereof by lessee.

See 8. Damages to property—Lessor must pay lessee for damage to lessee's improvements, and must cave and hold lessor harmless from all claims for damage or harm to persons or property as a result of lease operations.

See 9. Protection of diverse interests and equal opportunity—Lessor must maintain a safe working environment in accordance with applicable regulations and standard 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 Expenditure Order No. 11246 of September 24, 1965, as amended, and regulations and relevant orders of the Secretary of Labor issued pursuant thereto. Neither lessee nor lessee's subcontractor may maintain segregated facilities.

See 10. Transfer of lease interest 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 part 3213, lessee may relinquish that lease or any legal subordination by filing in the proper office a written relinquishment, which will be effective as of the date BLM receives it, subject to the continued obligation of the lease and Lessee to be responsible for paying all accrued rentals and royalties; paying and abandoning all wells on the relinquished land; restoring and reclaiming the surface and other resources; and complying with 43 CFR 320.4.

See 11. Delivery of premises—At such time as all or portions of this lease are returned to lessee, lessee must place all wells in condition for resumption or abandonment, reclaim 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 productive wells or continued protection of the environment.

See 12. Proceedings in case of default—If lessee fails to comply with any provisions of this lease or other applicable regulations under 43 CFR part 320, and the notice given under paragraph 11(b) is not cured within 10 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 exercise of lessee of any other legal and equitable remedy or actions, including waiver of the default. Any such remedy, waiver, or notice will not prevent 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 320.4, any immediate action is required, the lessee may enter on the leased lands and take measures deemed necessary to correct the failure at the lessee's expense.

See 13. Heirs and successors-in-interest—Each obligee of this lease will extend to and be binding upon, and every benefit hereunder will inure to, the heirs, executors, administrators, successors, or assigns of the respective parties hereto.

Lease must be kept 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 investigations on or in the leased lands. Lessee 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 geothermal resources, hydropower products, 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 leased premises 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 6 years after they are generated or, if an audit or investigation is underway, until released of the obligation to maintain such records by lessee.
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 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 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,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.

<table>
<thead>
<tr>
<th>Parcel #</th>
<th>Legal Land Description</th>
</tr>
</thead>
</table>
| NV-19-09-062 | T. 32 N., R 23 E., 21 MDM, NV  
Sec. 05 LOT 1-4  
Sec. 05 S2N2, SE, E2SW, NWSW  
Sec. 08 NE, E2SE |
| NV-19-09-063 | T. 32 N., R 23 E., 21 MDM, N  
Sec. 16 NW |
| NV-19-09-064 | T. 33 N., R 23 E., 21 MDM, NV  
Sec. 24 SW  
Sec. 31 SE  
Sec. 32 SW |
| NV-19-09-065 | T. 33 N., R 24 E., 21 MDM, NV  
Sec. 18 NW |
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, 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 if 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.

<table>
<thead>
<tr>
<th>Parcel #</th>
<th>Legal Land Description</th>
</tr>
</thead>
</table>
| NV-19-09-028 | T. 26 N., R 38 E., 21 MDM, NV  
* Sec. 32 L1, L2, L7, L8, N2SE, SESE*  |
| NV-19-09-029 | T. 26 N., R 38 E., 21 MDM, NV  
* Sec. 28 W2SW, NWSE  
* Sec. 29 L1, SWSE*  |
| 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-19-09-066 | 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-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
**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

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

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

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

T. 33 N., R 24 E., 21 MDM, NV
  Sec. 18 NW

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

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

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

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-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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<td>Sec. 34 NESE. SESE</td>
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<td>Sec. 29 LOTS 1-2, N2SW</td>
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NV-W-11-C-CSU
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Sec. 2 ALL

NV-19-09-073  T. 27 N., R 27 E., 21 MDM, NV  
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NV-19-09-078  T. 45 N., R 27 E., 21 MDM, NV  
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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
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NV-W-11-C-CSU
**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.

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      Sec. 32 E2SW, SENG

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, NENW

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 (BGPA) and the Migratory Bird Treaty Act (MBTA). The following timing restrictions apply.

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<th>Restriction Dates</th>
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<td>Winter roosts</td>
<td>1/2 mile</td>
<td>Dec. 1 - April 1</td>
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<td>Nests (occupied)</td>
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<td>Mar 1 - August 31</td>
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<td>1/4 mile non-los, 1/2 mile lose</td>
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<td>Flammulated owl</td>
<td>Nests</td>
<td>1/4 mile</td>
<td>April 10 Sept. 30</td>
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**Objective [Purpose]:** To protect raptor nesting activities necessary to maintaining the critical life stages of existing raptor populations.

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**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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<th>Parcel #</th>
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<tr>
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<td>NV-19-09-131</td>
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</tbody>
</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.

1a. Street
   6140 Plumas Street

1b. City
   Reno

1c. State
   NV

1d. 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. 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 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.

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

Comments:
NV-20-10-001

THE UNITED STATES OF AMERICA

BY

Kemba K. Anderson

(Signing Official)

(Printed Name)

Chief, Branch of Mineral Resources, Fluids

(Title)

11/12/2020

(Date)

EFFECTIVE DATE OF LEASE

12/01/2020

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 wells, improvements, machineries, and fixtures thereon, and all books, accounts, maps, and records relative to operations, surveys, or inspections on or in the leased lands. Lessor must maintain copies of all contracts, sales agreements, accounting records, billing records, inventories, gross proceeds 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 lessor’s accounting office for future audit by lessor and produced upon request by lessor or lessor’s authorized representative or agent. Lessor must maintain required records for 4 years after they are generated or, if an audit or investigation is underway, until released 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, in cultural, biological, visual, and other resources, and to other land users or users. Lessor must take reasonable measures deemed necessary by lessor to accomplish the intent of this section. To the extent consistent with leased rights granted, such measures may include, but are not limited to, modification to stings or design of facilities, timing of operations, and specification of interim and final reclamation measures. Lessor reserves the right to determine existence uses and to authorize future uses upon or in the leased lands, including the approval of easements or rights-of-way. Such users will be conditioned so as to prevent unnecessary or unreasonable interference with rights of lessor. Prior to disturbing the surface of the leased land, lessor must contact lessee to be apprised of procedures to be followed and modifications or reclamation measures that may be necessary. Areas to be disturbed may require inventories or special studies to determine the extent of impacts to other landowners. 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, lessor must immediately contact lessor. Lessor must ensure 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 the production, use, or conversion of geothermal resources from these leased lands is susceptible of 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—Lessor must pay lessee for damage to lessor’s improvements, and must save and hold lessee harmless from all claims for damage or loss to persons or property as a result of lessee operations.

Sec. 9. Protection of divers interests and equal opportunity—Lessor must maintain a safe working environment in accordance with applicable regulations and standard 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 11246 of September 24, 1965, as amended, and regulations and relevant orders of the Secretary of Labor issued pursuant thereto. Neither lessor nor lessee’s subcontractor may maintain segregated facilities.

Sec. 10. Transfer of lessee interests and relinquishment of lease—As required by regulations, lessee must file with lessor any assignment or other transfer of interest in this lease. Subject to the requirements of 43 CFR subpart 3231, lessee may relinquish this lease or any legal subassignment by filing in the proper office a written relinquishment, which will be effective as of the date BLM receives it, subject to the continued obligation of the lessee and lessee to be responsible for paying all accrued rentals and royalties; phasing and abandoning all wells on the relinquished land; restoring and reclaiming the surface and other resources; and complying with 43 CFR 320.4.

Sec. 11. Delivery of premises—At such time as all or portions of this lease are returned to lessor, lessee must 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 productive wells or continued protection of the environment.

Sec. 12. Proceedings in case of default—If lessor fails to comply with any provisions of this lease or other applicable requirements under 43 CFR 3208, and the noncompliance continues for 20 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 exercise by lessor 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 lessor 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 3208, and immediately action is required, the fewer may enter on the leased lands and take measures deemed necessary to correct the failure at the lessor’s expense.

Sec. 13. Heirs and successors-in-interest—Such obligation of this lease will extend to and be binding upon, every heir, devisee, assignee, administrator, successor, or grantee of the respective parties hereto.

(Continued on page 3)
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) 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.

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<tr>
<td></td>
<td>Sec. 016 LOT 2; 016 NWNE;</td>
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</table>
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>
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<tr>
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<th>Location</th>
<th>Distance of Spatial Buffer Zone/Type of Restriction</th>
<th>Restriction Dates</th>
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<td>Nests</td>
<td>1/4 mile non-los and 1/2 mile los and 1 mile blasting</td>
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<td></td>
<td>Winter roosts</td>
<td>1/2 mile</td>
<td>Dec. 1 - April 1</td>
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<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>Previous Years Nests</td>
<td>1/2 mile los</td>
<td>Feb 1 - Aug 31</td>
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<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>
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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>
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<td>Prairie falcon</td>
<td>Nests</td>
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<td>1/4 mile</td>
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Objective [Purpose]: To protect raptor nesting activities necessary to maintaining the critical life stages of existing raptor populations.

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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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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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  032  E2NE;

NV-20-10-030

T.0350N, R.0430E, 21 MDM, NV
Sec. 022  ALL;
  028 NENE, S2NE, SENC, 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 not include lands with slopes greater than 15%. This determination shall be based upon USGS mapping and a BLM evaluation of the area.

**Parcel #**

NV-20-10-001

**Legal Land Description**

T.0320N, R.0230E, 21 MDM, NV
Sec. 016 LOT 2;
016 NWNE;
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;