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By: _____ Date: _____

STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 684-7040 | Fax (775) 684-7052
<http://minerals.nv.gov>

Date Received	3/10/2025
API #	27-021-90089
County	Mineral
Permit Number	1644
FOR DIVISION USE ONLY	

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATIONName or Corporate/Business Name Ormat Nevada, Inc.Nevada SOS Business ID Number NV19921016142Street Address 6884 Sierra Center ParkwayCity Reno State NV Zip Code 89511

hereby makes application for a geothermal development permit, State of Nevada, Division of Minerals.

(If applicant is a corporation, show state and date of incorporation; if a partnership, list names of partners.)

This application is for a ☐ Domestic well ☐ Commercial well ☐ Industrial wellOther, specify: ☒ Observation well ☐ Thermal Gradient well ☐ Re-entry**Note:** Re-entry includes workover, deepening, or plugging back operations.Applicant is: ☐ Land Owner ☒ Lease HolderWell Name: 31(41)-18Lease Name/No: NVNV105377426 Split Estate? ☐ Yes ☒ NoLand Type: ☒ Federal (BLM, USFS, etc.) ☐ Private ☐ StateLocation of Well:Domestic: Street: _____
City: _____ County: _____

Commercial and Industrial:

NW 1/4 of, NW 1/4 in Section 18,
Township 5 North, Range 36 East,

SHL UTM Northing	<u>4239210</u>	N;	UTM Easting	<u>410089</u>	E (NAD83 Datum)
BHL UTM Northing	<u>4239211</u>	N;	UTM Easting	<u>410301</u>	E (NAD83 Datum)

County Mineral County

(If applicable, give street address below.)

Street: _____
City: _____
State: _____ Zip: _____

Operator's Name: Ormat Nevada, Inc.
Address: 6884 Sierra Center Parkway
City, St Zip: Reno, NV 89511

Drilling Contractor's Name: Major Drilling
Address: 2200 4000 W
City, St Zip: Salt Lake City, UT 84120

Rotary Rig Description: Track mounted LF230 coring rig

Hole Size: 9.875 inches Casing Size: 4.5 inches Weight/Gauge: 11.6#/L80

Estimated Well Head Temperature: <212F

Size of BOP: ☐ 2000 psi ☐ 3000 psi ☐ 5000 psi ☒ 1000 PSI See Attached Drilling Program

Planned Use of Geothermal Resource:

Geothermal electrical energy production.

Planned Disposal of Spent Geothermal Fluid:

A drill sump will be constructed to collect cuttings, contain, and recycle the drilling fluids. Spent geothermal fluid will be injected back into the reservoir.

Type and Amount of Bond: Statewide Federal Bond for \$1,015,312
(Exempt for Domestic Class)

Bond Issued by: Travelers Casualty and Surety Company of America Serial No. 107521294

Geothermal Project Area (if applicable) Excelsior Project

The Source of the Proposed Geothermal Resource is:

Excelsior Geothermal Resource

(List name of hot spring, geologic formation(s) or other source.)

Total Depth to be drilled: 4,000 feet

Drilling will commence on or before: Q3-Q4 2025

Signature of Applicant/Agent: **Shelby Williams** Digitally signed by Shelby Williams
Date: March 10, 2025 Date: 2025.03.10 09:02:45 -07'00'

Please attach a detailed drilling program including the following information:

1. Well design schematic; casing and mud programs; potential water supply; drilling rig to be used and pad layout; blow out prevention equipment diagram and testing program; directional drilling information if applicable; map of location and access roads. Additional information may be required upon review.
2. The required fee per NAC 534A 210 or 534A.212.

CONDITIONS OF PERMIT

1. All permittees must comply with appropriate sections of the Geothermal Rules and Regulations of the Division of Minerals and with applicable rules and regulations of other local, state, and federal agencies.
2. During the drilling of domestic geothermal wells, all water strata above the geothermal horizon being used must be sealed or separated in order to prevent their contents from passing into other strata.
3. All fresh water and water of value or possible value for other beneficial uses must be confined to their respective strata and be adequately protected by methods approved by the Division. Precautions must be taken in drilling and abandoning wells to guard against any loss of fresh water from the strata in which it occurs, and the contamination of any fresh water by objectionable water.
4. The operator of any well must shut off and exclude all water from any geothermal resource-bearing stratum to the satisfaction of the Division.
5. See attached Conditions of Approval.
6. Please send daily drilling reports to : Dustin Holcomb dholcomb@minerals.nv.gov
and
Crystal Cruson fluids@minerals.nv.gov

7. Additional Conditions/Comments

A.	Administrator waiver granted for use of non-API BOPE
B.	Sump to be fenced on three sides
C.	Project Area #1647

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal, and local agencies.

PERMIT APPROVAL

Approved 5/13/2025 with the conditions noted above.
Date

Permit Number 1644

Administrator
Division of Minerals