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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 **5/9/2025**API # **27-027-90135**County **Pershing**Permit Number **1663**

FOR DIVISION USE ONLY

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATIONName or Corporate/Business Name Star Peak Geothermal LLCNevada SOS Business ID Number NV20171458203Street Address 245 E. Liberty St. Suite 520City Reno State NV Zip Code 89501

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.)

See org chart on file.

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: 47-21Lease Name/No: _____ Split Estate? ☐ Yes ☒ NoLand Type: ☐ Federal (BLM, USFS, etc.) ☒ Private ☐ StateLocation of Well:Domestic: Street: _____
City: _____ County: _____

Commercial and Industrial:

SW 31 $\frac{1}{4}$ of, SE 33 $\frac{1}{4}$ in Section 21,
Township _____, Range _____SHL UTM Northing 4,487,589 N; UTM Easting 392,011 E (NAD83 Datum)
BHL UTM Northing 4,486,667 N; UTM Easting 392,011 E (NAD83 Datum)County Pershing

(If applicable, give street address below.)

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

Operator's Name: Star Peak Geothermal LLC
Address: 245 E. Liberty St. Suite 520
City, St Zip: Reno, NV 89501

Drilling Contractor's Name: Open Mountain Drilling
Address: 245 E. Liberty St. Suite 520
City, St Zip: Reno, NV 89501

Rotary Rig Description: 1,500 HP. Triple, with derrick rating of 1,000,000 lbs

Hole Size: 7" Casing Size: 8 1/2" Weight/Gauge: K-55

Estimated Well Head Temperature: 363 F

Size of BOP: ☒ 2000 psi ☐ 3000 psi ☐ 5000 psi

Planned Use of Geothermal Resource:

Generation of electricity.

Planned Disposal of Spent Geothermal Fluid:

To injection wells.

Type and Amount of Bond: ~~\$50,000 statewide bond~~ **\$25,000.00 Individual Well Bond**
(Exempt for Domestic Class)

Bond Issued by: ~~Lexon Insurance Company~~ **NDOM Well Bond Account** Serial No. ~~#1151413~~

Geothermal Project Area (if applicable) None.

The Source of the Proposed Geothermal Resource is:

Triassic Metasedimentary Rocks

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

Total Depth to be drilled: 10,000 ft

Drilling will commence on or before: 6/15/2025

Signature of Applicant/Agent: Jessica Fabin
Date: 5/8/2025

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.	See attached COAs
B.	NDOM Individual Well Bond Obligation Confirmed
C.	

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 7/8/2025 with the conditions noted above.
Date

Permit Number 1663

Rob
Ghiglieri

Digitally signed by
Rob Ghiglieri
Date: 2025.07.08
11:39:00 -07'00'

Administrator
Division of Minerals