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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 **8/6/2026**API # **27-001-90580**County **Churchill**Permit Number **1788**

FOR DIVISION USE ONLY

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATIONName or Corporate/Business Name ORNI 3 LLCNevada SOS Business ID Number NV20061509842Street 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: EGS M 16-23Lease Name/No: Frase Group Split Estate? ☐ Yes ☒ NoLand Type: ☐ Federal (BLM, USFS, etc.) ☒ Private ☐ StateLocation of Well:Domestic: Street: _____
City: _____ County: _____

Commercial and Industrial:

NW 1/4 of, SW 1/4 in Section 23,
Township 22N, Range 27E,SHL UTM Northing 4402533 N; UTM Easting 334884 E (NAD83 Datum)
BHL UTM Northing 4402533 N; UTM Easting 334884 E (NAD83 Datum)County Churchill

(If applicable, give street address below.)

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

Operator's Name: ORNI 3 LLC
Address: 6884 Sierra Center Parkway
City, St Zip: Reno, NV 89511

Drilling Contractor's Name: Ensign Energy Services
Address: 400-5th Avenue SW, Suite 1000
City, St Zip: Calgary, AB

Rotary Rig Description: ENSIGN 161 - Large Rotary Rig

Hole Size: 36" Casing Size: 30" Weight/Gauge: 118.65# PEBFW

Estimated Well Head Temperature: 210 degrees celsius

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

Planned Use of Geothermal Resource:

N/A - Monitoring Well

Planned Disposal of Spent Geothermal Fluid:

N/A - Monitoring Well

Type and Amount of Bond: NDOM Project Area Bond / \$100,000.00
(Exempt for Domestic Class)

Bond Issued by: Arch Insurance Company Serial No. SU1213551

Geothermal Project Area (if applicable) Desert Peak

The Source of the Proposed Geothermal Resource is:

Granodiorite Basement Rock

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

Total Depth to be drilled: 12,500'

Drilling will commence on or before: ~~10/1/2026~~

Signature of Applicant/Agent: *Ryan Colley*
Date: 8/6/2026

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.	Project Area #1787
B.	Provide Stimulation Program Checklist before Stimulation
C.	Provide subsequent summary report of DFIT

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 10/7/2026 with the conditions noted above.
Date

Permit Number 1788

Rob
Ghiglieri

Digitally signed by
Rob Ghiglieri
Date: 2026.10.07
10:41:14 -07'00'

Administrator
Division of Minerals