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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 5/8/2025

API # 27-007-90096

County ELKO

Permit Number 1662

FOR DIVISION USE ONLY

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name Elko Heat Company

Nevada SOS Business ID Number NV19821007692

Street Address P.O. Box 1089

City Minden

State NV

Zip Code 89423

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.)

FILED IN THE OFFICE OF THE
SECRETARY OF STATE OF NEVADA
July 22, 1982

This application is for a

☐ Domestic well

☒ Commercial well

☐ Industrial well

Other, specify:

☒ Observation well

☒ Thermal Gradient well

☐ Re-entry

Note: Re-entry includes workover, deepening, or plugging back operations.

Applicant is: ☐ Land Owner ☒ Lease Holder

Well Name: Observation Well #1

Lease Name/No: Elko Heat Holding LLC Split Estate? ☐ Yes ☐ No

Land Type: ☐ Federal (BLM, USFS, etc.) ☐ Private ☐ State

Location of Well:

Domestic: Street: _____

City: _____

County: _____

Commercial and Industrial:

North East $\frac{1}{4}$ of, NE $\frac{1}{4}$ in Section 22,
Township 34N, Range 55E

UTM Northing 28,458,218.3743 N; UTM Easting 603,150.8741 E (NAD83 Datum)
4519904 N 603308 E

County Elko

(If applicable, give street address below.)

Street: _____

City: _____

State: _____

Zip: _____

Operator's Name: Elko Heat Company

Address: P.O. Box 1089

City, St Zip: Minden, NV 89423

Drilling Contractor's Name: Ensign United States Drilling

Address: 7001 Charity Avenue

City, St Zip: Bakersfield, CA 93308

Rotary Rig Description: Single

Hole Size: 8-1/2" Casing Size: 9-5/8" Weight/Gauge: 43.5 lb/ft L-80

Estimated Well Head Temperature: 200C

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

Planned Use of Geothermal Resource:

This is an exploratory well intended to better understand the subsurface geology and potential production from the geothermal resource.

Planned Disposal of Spent Geothermal Fluid:

The well will be tested for a short period. Any produced geothermal fluid will be stored on location and then reinjected into the wellbore after testing is complete.

Type and Amount of Bond: NDOM OGG Bond Acct - Obligation \$25,000.00

(Exempt for Domestic Class)

Bond Issued by: NDOM OGG CASH OBLIGATION Serial No. _____

Geothermal Project Area (if applicable) _____

The Source of the Proposed Geothermal Resource is:

Cross faulting zone of the Elko N/S Fault and E/W Buried Fault

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

Total Depth to be drilled: 8,000 feet

Drilling will commence on or before: June 15, 2025

Signature of Applicant/Agent: _____

Date: 4-29-2025

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 Crusonfluids@minerals.nv.gov

7. Additional Conditions/Comments

A.	
B.	
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 6/3/2025 with the conditions noted above.
Date

Permit Number 1662

Administrator
Division of Minerals