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By Dustin Holcomb at 3:22 pm, Jul 02, 2024

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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 _____
API Number 27-011-90041
County Eureka
Permit Number 1601
FOR DIVISION USE ONLY

GEOHERMAL INJECTION WELL PERMIT APPLICATION

The applicant
Ormat Nevada, Inc.
Name (or Corporate/Business Name)
Nevada SOS Business ID Number NV19921016142
Street Address 6140 Plumas Street
City Reno State NV Zip Code 89519
Telephone 775-233-8477
Email cjim@ormat.com

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

Applicant is: Land Owner Lease Holder
Well Name: 85(86)-3
Lease Name/No: Crescent Valley Private Lease Split Estate? Yes No
Land Type: Federal (BLM, USFS, etc.) Private State
Type and Amount of Bond: _____
(Exempt for Domestic Class)

Bond Issued by: Federal Insurance Company
Serial Number: K40363622

Well Location: NE 1/4 of, SE 1/4, Section 03,
Township 28N, Range 49E, County Eureka.
UTM Northing 4463809 N; UTM Easting 548862 E (NAD83 Datum)

Operator's:
Name: Ormat Nevada, Inc.
Address: 6140 Plumas Street
City, St Zip: Reno, NV 89519

Drilling Contractor's:
Name: Kenai Drilling Ltd
Address: 2651 Patton Way
City, St Zip: Bakersfield, CA 93308
Telephone: 661-587-0117

Hole Size: 12.25-inch Casing Size: 9.625-inch Weight/Gauge: 40# K55 BT&C Slotted

Size of BOP: 2000 psi 3000 psi 5000 psi

Rotary Description:

Identify or locate the sources of the fluids which will be injected:

During early drilling and testing the water produced from the well will be used, and supplemental water will come from NGM Rapid Infiltration Basin Water that is located nearby. If project transitions into production, water will come from the well field.

Estimated average daily volume of fluids injected 3,600,000 gallons.

Maximum daily volume of fluids injected 10,800,000 gallons.

Estimated maximum injected pressure 350 psi, temperature 309 °F

List proposed metering equipment, pipelines and safety devices that will be used to prevent accidental pollution:

Steel pipelines will be used to transport brine. Throughout the system flow meters, pressure sensors, and temperature sensors will be used to monitor production, injection, and internal plant values. All these instruments will be monitored by computer and operator to ensure proper operation. Automated alarms are setup on key parameters to warn operators. Isolation and check valves will be installed in proper locations to prevent unwanted backflow or cross contamination.

Total Depth to be Drilled: 3,319 Total Vertical Depth

Drilling will Commence On: Approximately end of October.

Is this well location under an Underground Injection Permit?

If so, provide NDEP Permit number UNEV n/a

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this application has been omitted.

Signature of Applicant/Agent:

Digitally signed by Christopher Jim
Date: Tuesday, July 2, 2024 2:44:06 PM

Print Name: Christopher Jim

Date: 07/02/2026

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 geothermal injection 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.	Project Area: 1489
B.	Well is located in potential sage grouse habitat; recommend consulting the Nevada Division of Wildlife (NDOW) before drilling.
C.	Please provide NDOM with the injection test checklist prior to injection or flow testing.

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 8/23/2023 with the conditions noted above.
Date

Permit Number 1601

Administrator
Division of Minerals