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STATE OF NEVADA
 COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
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Date Received 4/2/2026

API # 27-027-90150

County Pershing

Permit Number 1741
 FOR DIVISION USE ONLY

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name Nevada Bureau of Mines and Geology, University of Nevada Reno

Nevada SOS Business ID Number _____

Street Address 1664 N Virginia St

City Reno State NV Zip Code 89557

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.)

The applicant is drilling these exploration wells with the permission of the landowner/leaseholder as shown in agreement letter attached. The well has also been submitted under a BLM Exploration NOI with the Winnemucca field office. These holes are being drilled as a part of the Department of Energy grant DE-EE009254-the INGENIOUS project. RESPEC is the drilling engineer and drilling services oversight for the project.

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: 47-11 (E)

Lease Name/No: Granite Springs Valley Split Estate? Yes No

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

Location of Well:

Domestic: Street: n/a

City: _____ County: _____

Commercial and Industrial:

SE _____ 1/4 of, SW _____ 1/4 in Section 11

Township 27N, Range 27E

SHL UTM Northing 336697.58 N; UTM Easting 4454007.24 E (NAD83 Datum)

BHL UTM Northing _____ N; UTM Easting _____ E (NAD83 Datum)

County Pershing

(If applicable, give street address below.)

Street: n/a

City: closest city is Lovelock

State: NV Zip: _____

Operator's Name: RESPEC Company LLC
Address: 41865 Boardwalk, Suite 109
City, St Zip: Palm Desert, CA, 92211

Drilling Contractor's Name: Welsco (Contractor License #011752)
Address: 2510 Beasley Dr
City, St Zip: Fallon, NV, 89506

Rotary Rig Description: Schramm T-130/750 HP with 130,000# pullback

Hole Size: 6-inch bottom hole Casing Size: 7-inch surface Weight/Gauge: 23 ppf, H-40, LTC

Estimated Well Head Temperature: < 100°C/212F at surface (WHT)

Size of BOP: 2000 psi 3000 psi 5000 psi **BOP is 8" Series 300 annular**

Planned Use of Geothermal Resource:

This is a research project funded by DOE to learn improved methods for finding geothermal resources hidden below the surface in the Great Basin. Wells will not (are not intended to) flow. Install un-cemented blank closed liner to TD to keep hole open for obtaining downhole temperature equilibrium measurements, filling the hole with freshwater upon completion. Drilling would stop and hole completed safely from the depth where boiling temperature is seen at surface. Hole is cooled by drilling operations enough to proceed safely until this point. See attached program for details.

Planned Disposal of Spent Geothermal Fluid:

Fluids are not expected from a TG well in this area at the proposed drilled depths. Any cuttings with water based mud materials will be captured at surface and then spread evenly over the drill site as part of the site abandonment procedure, which is planned/budgeted prior to (as a requirement of) closing of INGENIOUS grant. If freshwater aquifer is encountered, it will be managed and cased off.

Type and Amount of Bond: Bond is waived as Operator is a state agency with P&A planned.
(Exempt for Domestic Class)

Bond Issued by: n/a Serial No. _____

Geothermal Project Area (if applicable) _____

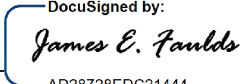
The Source of the Proposed Geothermal Resource is:

Hidden system based on geological, structural, and geophysical features.

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

Total Depth to be drilled: 1650 ft depending on conditions encountered, Surface casing set at 165 ft.

Drilling will commence on or before: April 1, 2026 (as permit approval and preparations allow)

Signature of Applicant/Agent: 
Date: 02-Apr-2026 10:11 AM PDT

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.	Granite Springs Project Area #1739
B.	See Conditions of Approval
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 5/21/2026 with the conditions noted above.
Date

Permit Number 1741

Administrator
Division of Minerals