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By: _____ Date: _____

STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
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Carson City, Nevada 89703
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<http://minerals.nv.gov>

Date Received	8/12/2026
API #	27-013-90191
County	Humboldt
Permit Number	1776
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GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATIONName or Corporate/Business Name James Faulds, Nevada Bureau of Mines and Geology

Nevada SOS Business ID Number _____

Street Address Nevada Bureau of Mines and Geology, Mail Stop 178 University of NevadaCity 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 on unleased BLM land. The well has also been submitted under a BLM Exploration NOI with the Winnemucca district. 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 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: 78-21 (N)Lease Name/No: unleased Split Estate? ☐ Yes ☐ NoLand Type: ☒ Federal (BLM, USFS, etc.) ☐ Private ☐ StateLocation of Well:Domestic: Street: n/a

City: _____ County: _____

Commercial and Industrial:

NW 1/4 of, NE 1/4 in Section 21,
Township 29N, Range 40E,

SHL UTM Northing	<u>459307.4</u>	N;	UTM Easting	<u>4468473</u>	E (NAD83 Datum)
BHL UTM Northing	<u>same</u>	N;	UTM Easting	<u>same</u>	E (NAD83 Datum)

County Humboldt

(If applicable, give street address below.)

Street: n/a

City: _____

State: _____ Zip: _____

Operator's Name: RESPEC attn: Mary Mann, POC/Ernesto Rivas, Drilling Engineer
Address: 41865 Boardwalk Suite 109
City, St Zip: Palm Desert, CA, 92211

Drilling Contractor's Name: Envirotech Drilling LLC Attn: Brian Mikelson
Address: 900 East 4th Street
City, St Zip: Winnemucca, NV 89445

Rotary Rig Description: Atlas Copco RD 10 Plus or Schramm 685 (Envirotech subcontractor)

Hole Size: Surface 8.5" / Bottom 4.5" Casing Size: Surface 6-5/8" Weight/Gauge: 20 ppf, J-55

Estimated Well Head Temperature: <212°F, BOP will not be employed for this well

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

Planned Use of Geothermal Resource:

Temperature gradient hole drilling to approximately 800 ft at multiple wellhead locations. Temperature gradient wells are for geothermal research and are funded by the U.S. Department of Energy Award Number: DE-EE0009254 - INGENIOUS project. See included detailed drilling information.

Planned Disposal of Spent Geothermal Fluid:

No flow is planned.

Type and Amount of Bond: Exempt for State Agency with P&A plan
(Exempt for Domestic Class)

Bond Issued by: n/a Serial No. n/a

Geothermal Project Area (if applicable) Buffalo Valley -INGENIOUS

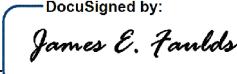
The Source of the Proposed Geothermal Resource is:

Resource is not intended to be encountered in these TGH wells, assessing temperature gradient due to anticipated geothermal resource at greater depths, based on geophysical, structural and geologic features.

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

Total Depth to be drilled: 800 ft.

Drilling will commence on or before: ~~August 24, 2026~~ pending approval of BLM NOI

Signature of Applicant/Agent: 
Date: 03-Aug-2026 | 5:39 PM 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.	Project Area 1778 Buffalo Valley 2
B.	NAC 534A.260-270 Requirements Waived
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 9/1/2026 with the conditions noted above.
Date
Permit Number 1776

Administrator
Division of Minerals