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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 #	27-015-90154		
County_	Lander		
Permit N	Number <b>1617</b>		
FOR	DIVISION USE ONLY		

## GEOTHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/E	Business Name Nevada Bureau of Min	nes and Geology, University of Nev	ada, Reno
Nevada SOS Busine			
Street Address 166	64 N Virginia St, MS 0178		
City Rer	no	State NV Zip Code 8	89557
hereby makes applica	ation for a geothermal development p	ermit, State of Nevada, Divisior	n of Minerals.
(If applicant is a corpo	oration, show state and date of incorp	poration; if a partnership, list nar	mes of partners.)
shown in agreemen	lling these exploration wells with that letter attached. These holes are E009254-the INGENIOUS project. for the project.	being drilled as a part of the	Department of
This application is for	a Domestic well	Commercial well	Industrial well
Other, specify	y: Dbservation well	Thermal Gradient well	Re-entry
Applicant is: La Well N	Name: 10-45 e Name/No: Argenta Rise  Type:	reement with landowner attache	
City:		County:	
Commercial and Indust <u>NE</u> Township UTM North		_½ in Section <u>10</u> _, Range <u>45</u> sting <u>508751</u> E (NAD83	Datum)
County L	Lander		
Street: r	ole, give street address below.) n/a closest city is Battle Mountain		
- · · -	Nevada	Zip:	

Operator's Name: RESPEC attn Sami Atalay 760-423-2217					
Address: 77560 Enfield Ln Build E					
City, St Zip: Palm Desert, CA 92211					
Drilling Contractor's Name: Envirotech attn Brian Mikelson 775-421-0481					
Address: 900 East 4th Street					
City, St Zip: Winnemucca, NV 89445					
Rotary Rig Description: See program attached					
Hole Size: max 8.5 (surface) Casing Size: max 7" Weight/Gauge: max 42 ppf					
Estimated Well Head Temperature: < 100°C/212F at surface (WHT)					
Size of BOP: ☐ 2000 psi ☐ 3000 psi ☐ 5000 psi BOP n/a					
Planned Use of Geothermal Resource:					
Size of BOP n/a. 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 cemented at surface. Freshwater aquifer is deepest max 272' (83 m) in this area.					
Type and Amount of Bond: n/a  (Exempt for Domestic Class)					
Bond Issued by: Serial No.					
Geothermal Project Area (if applicable) Bond is waived as Operator is a state agency with confirmed P&A Plan.					
Councilian roject / trea (ii applicable)					
The Source of the Proposed Geothermal Resource is:					
Hidden system based on fault, geological and geophysical features.					
(List name of hot spring, geologic formation(s) or other source.)					
Total Depth to be drilled: 500 to 1500 ft depending on conditions encountered, depth of surface casing set.					
Drilling will commence on or before: October 23, 2024 (timeline dependent on permit approval, weather and subcontractor agreements)					
DocuSigned by:					
Signature of Applicant/Agent: James E. Faulds					
Date: 30/September 2024					

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.	Sumps to be fenced on three sides
B.	Project Area #1627: Argenta Rise
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	10/21/2024	with the conditions noted above.		
	Date			
Permit Numb	er <b>1617</b>			
			Administrator	
			Division of Minerals	