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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_	10/3/2024		
API #	27-015-90152		
County	Lander		
Permit Number	1615		
FOR DIVISION USE ONLY			

GEOTHERMAL 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, MS 0178							
City	Reno			State N	 ·	de <u>89557</u>	
hereby makes a	hereby makes application for a geothermal development permit, State of Nevada, Division of Minerals.						
(If applicant is a	a corporat	ion, shov	v state and date of inc	corporation; if a	partnership, list	names of partners.)	
BLM permissi	on attacl 09254-th	ned belo ne INGE	w. These holes are	being drilled a	as a part of the	on unleased lands. Department of Energy and drilling services	
This application	is for a		Domestic well	Comme	ercial well	☐ Industrial well	
Other,	specify:		Observation well	Therma	al Gradient well	Re-entry	
Applicant is: Location of Wel	Land Well Nar Lease N Land Ty	Owner ne: ame/No: pe:	r, deepening, or pluge Lease Holder 15-16 Argenta Rise Federal (BLM, U	Unleased lands		state? ☐ Yes ☐ No ☐ State	
	ity:			C	County:		
NE ½ of, SE ½ in Section 15 , Township 30 , Range 45 , UTM Northing 4479496 N; UTM Easting 508184 E (NAD83 Datum)							
Cou	nty Lan	der					
(If ap Stre City:	et: <u>n/a</u>	est city is	et address below.) Battle Mountain				
State	e: <u>Nev</u>	ada			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				
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:				
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.				
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: 304September 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 #1615: 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 Date	with the conditions noted above.	
Permit Num	4045		
			A desinistrator
			Administrator Division of Minerals