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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

5 . 5			
Date Received			
API #	27-01	5-90160	
County_	Land	ler	
Permit N	lumber	1623	
FOR	DIVISIO	N USE ONLY	

## GEOTHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Cor	porate	/Business Na	me Nevada Bureau of Mi	nes and Geoloເ	gy, University of N	levada, Reno
Nevada SOS						
Street Addres						
City		eno		State NV	<u> </u>	
hereby makes	applic	ation for a ge	othermal development	permit, State o	of Nevada, Divis	sion of Minerals.
(If applicant is	a corp	oration, show	state and date of incor	poration; if a p	oartnership, list	names of partners.)
shown in agr	eeme t DE-E	nt letter atta E009254-th	exploration wells with the ched. These holes are elingenious project.	e being drilled	d as a part of t	he Department of
This application	n is fo	ra 🔲 🗆	Oomestic well	Commer Commer	cial well	☐ Industrial well
Other	, speci	fy: 🔲 C	Observation well	Thermal	Gradient well	Re-entry
Note: Re-enti	ry inclu	des workove	r, deepening, or pluggin	g back operat	ions.	
Applicant is:	_	and Owner Name:	Lease Holder ** <sup>Ag</sup> 34-41	reement with	landowner attac	ched
	Leas	se Name/No:	Argenta Rise		Split Es	state?
	Land	l Type:	Federal (BLM, USF	FS, etc.)	■ Private	State
Location of Wo	ماا:					
	<u>cii.</u> Street:	n/a				
	City:	-		Co	ounty:	
	,	_				
Commercial an	d Indu	strial:				
<u>NE</u>			¼ of, <u>NW</u>	_¼ in	Section 34	,
Tov	wnship	31		_, Range	46	
UTM Northing 4485494 N; UTM Easting 518946 E (NAD83 Datum)						
Co	unty	Lander				
`	(If applicable, give street address below.)					
	eet:	n/a	Pottle Mountain			
City		Nevada	Battle Mountain		7in:	
Sta	ite:	INCVAUA			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.					
Towns and Assessment of Davids 19/0					
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.					
Geotherman roject Area (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>1623</b>			
			Administrator Division of Minerals	