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DIVISION OF MINERALS

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 11/30+20
API Number <u>27-001-90543</u>
County Churchill
Permit Number 1501
FOR DIVISION USE ONLY

GEOTHERMAL INJECTION WELL PERMIT APPLICATION

The applicant							
ORNI 32 LLC							
Name (or Corpor	ate/Business Name)						
C	6140 Plumas Street						
Street Address							
City	Reno State NV Zip Code 89511 775-356-9029						
Telephone							
Email mhanneman@ormat.com							
nereby makes	application for a geothermal development permit, State of Nevada, Division of Minerals.						
Applicant is:	Land Owner Lease Holder						
	Well Name: 14A-8						
	Lease Name/No: NVN-092479 Split Estate? Yes No						
	Land Type: Federal (BLM, USFS, etc.) Private State						
	Type and Amount of Bond: NDOM bond \$75,000						
	(Exempt for Domestic Class)						
Bond Issued b	y; Bank of America (CD)						
Serial No.							
144-111	0147 1/ 51167 1/ 0						
Well Location:	SW ¼, NW ¼, Section 8						
Township 22	RN , Range 35E , County Churchill .						
_							
UTM Northing	4405114_N; UTM Easting 407563_E (NAD83 Datum)						
Operator's:							
•	ORNI 32 LLC						
Address:	6140 Plumas Street						
City, St Zip:	Reno, NV 89519						
Drilling Contra	Drilling Contractor's:						
	me: Geo-drill						
	4782 Hwy 111						
	City, St Zip: Brawley, CA 92227						
Telephone:	775-356-9029						

Hole Size: 12.25 Casing Size: 9.625 Weight/Gauge: 36#						
Size of BOP:						
Rotary Description:						
Identify or locate the sources of the fluids which will be injected:						
Existing production well 23A-8 in the Dixie Meadows geothermal resource						
Estimated average daily volume of fluids injected 7.5 million gallons.						
Maximum daily volume of fluids injected 10 million gallons.						
Estimated maximum injected pressure 600 psi, temperature 170 °F						
List proposed metering equipment, pipelines and safety devices that will be used to prevent accidental pollution:						
To be determined if development moves forward.						
Total Depth to be Drilled: 5,500 feet						
Drilling will Commence On: 9/1/2020						
Is this well location under an Underground Injection Permit? If so, provide NDEP Permit number UNEV No						
I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this application has been omitted.						
Signature of Applicant/Agent: Mark Hanneman						
Print Name: Mark Hanneman						
Date: 7-15-2020						

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 geothermal injection 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 :	Lowell Price <u>lprice@minerals.nv.gov</u>
		and
		Valerie Kneefelvkneefel@minerals.nv.go

7. Additional Conditions/Comments

A.	
В.	
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.

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Permit Number 1501

Administrator
Division of Minerals