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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	12/21/2015
API Number	27-001-90518
County	Churchill
Permit Number	1399
FOR DIVISION USE ONLY	

**GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION**

Name or Corporate/Business Name

ORNI 32 LLC

Street Address 6225 Neil road

City Reno

State NV

Zip Code 89511

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.)

[Empty box for incorporation/partnership details]

This application is for a  Domestic well  Commercial well  Industrial well

Other, specify:  Observation well  Thermal Gradient well  Re-entry

**Note:** Re-entry includes workover, deepening, or plugging back operations.

Applicant is:  Land Owner  Lease Holder

Well Name: 23A-8

Lease Name/No: Dixie Meadows (Dixie Hope) Split Estate?  Yes  No

Land Type:  Federal (BLM, USFS, etc.)  Private  State

Location of Well:

Domestic: Street: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_

Commercial and Industrial:

SW \_\_\_\_\_ 1/4 of, NW \_\_\_\_\_ 1/4 in Section 8 \_\_\_\_\_,

Township 22 N \_\_\_\_\_, Range 35E \_\_\_\_\_,

UTM Northing	<del>4405330</del> 4405315	N;	UTM Easting	<del>407925</del> 407919	E (NAD83 Datum)
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County Churchill

(If applicable, give street address below.)

Street: 1000 feet east of Dixie Valley Road near Dixie Hot Spr

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Operator's Name: ORNI 32 LLC  
Address: 6225 Neil Road  
City, St Zip: Reno, NV 89511

Drilling Contractor's Name: GeoDrill  
Address: 6225 Neil Road  
City, St Zip: Reno, NV 89511

Rotary Rig Description: full size production rig

Hole Size: 36 Casing Size: 30 3/8 Weight/Gauge: Grade B PEBFW

Estimated Well Head Temperature: 330 F

Size of BOP:  2000 psi  3000 psi  5000 psi

Planned Use of Geothermal Resource:  
Power Production

Planned Disposal of Spent Geothermal Fluid:  
Reserve Pit

Type and Amount of Bond: BLM Nationwide Bond: \$150,000; NDOM Bond: \$75,000  
(Exempt for Domestic Class)

Bond Issued by: Bof A CD Serial No. \_\_\_\_\_

The Source of the Proposed Geothermal Resource is:  
Geothermal Lease  
(List name of hot spring, geologic formation(s) or other source.)

Total Depth to be Drilled: 4500 ft

Drilling will Commence On or Before: January 7, 2015

Signature of Applicant/Agent: *Mark Sammons*  
Date: 12/21/15

- 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 : Lowell Price.....[lprice@minerals.nv.gov](mailto:lprice@minerals.nv.gov)  
and  
Linda Wells.....[lwells@minerals.nv.gov](mailto:lwells@minerals.nv.gov)
7. Additional Conditions/Comments

A.	<i>Under Project Area Permit # 1299</i>
B.	<i>Cementing program for 13 7/8" casing (Appendix E) incorrectly states cement volume needed for 80% excess. This amount will</i>
C.	<i>be corrected and submitted to NDMT for approval prior to cementing.</i>

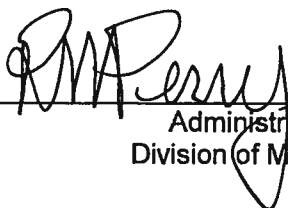
This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

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 12/22/15 with the conditions noted above.  
Date

Permit Number 1399

  
\_\_\_\_\_  
Administrator  
Division of Minerals