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MAR 27 2014

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

Date Received	
API Number	27-001-90510
County	Churchill
Permit Number	1357
FOR DIVISION USE ONLY	

**GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION**

Name or Corporate/Business Name  
ORNI 43 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: 56(45)-22

Lease Name/No: NVN-086897 Split Estate?  Yes  No

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

Location of Well:

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

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

Commercial and Industrial:

NE 1/4 of, <sup>SW (LSP)</sup> SE 1/4 in Section 22

Township 21N, Range 38E

UTM Northing	4391441	N;	UTM Easting	440598	E (NAD83 Datum)
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County Churchill

(If applicable, give street address below.)

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

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

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

Operator's Name: ORNI 43 LLC  
Address: 6225 Neil Road  
City, St Zip: Reno, NV 89511

Drilling Contractor's Name: Geodrill  
Address: 4782 Hwy 111  
City, St Zip: Brawley, CA 92227

Rotary Rig Description: \_\_\_\_\_

Hole Size: 26" Casing Size: 22-1/2 Weight/Gauge: 114.9 lb/ft / B

Estimated Well Head Temperature: 330 F

Size of BOP:  2000 psi  3000 psi  5000 psi

Planned Use of Geothermal Resource:

Energy Production - Tungsten Mountain

Planned Disposal of Spent Geothermal Fluid:

Injection

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

Bond Issued by: BofA CD Serial No. \_\_\_\_\_

The Source of the Proposed Geothermal Resource is:

Tungsten Mountain

(List name of hot spring, geologic formation(s) or other source.)

Total Depth to be Drilled: 4640' TVD, 5500' MD

Drilling will Commence On or Before: April 14<sup>th</sup>, 2014

Signature of Applicant/Agent:   
Date: March 26<sup>th</sup>, 2014

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@govmail.state.nv.us  
and  
Linda .....lwells@govmail.state.nv.us
7. Additional Conditions/Comments


A.	<i>Under Project Area Permit 1293.</i>
B.	
C.	

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**PERMIT APPROVAL**

Approved 4/9/14 with the conditions noted above.  
Date

Permit Number 1357

  
\_\_\_\_\_  
*Deputy* Administrator  
Division of Minerals