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OCT 15 2015

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	
Division of Minerals	
API Number	29-001-90517
County	CHURCHILL
Permit Number	1398
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: 45A-22
Lease Name/No: N-086897 Split Estate? Yes No
Land Type: Federal (BLM, USFS, etc.) Private State

Location of Well:
Domestic: Street: _____
City: _____ County: _____

Commercial and Industrial:
NE _____ ¼ of, SE _____ ¼ in Section 22
Township 21N, Range 38E

UTM Northing 4391528 N; UTM Easting 440553 E (NAD83 Datum)

County Churchill
(If applicable, give street address below.)
Street: _____
City: _____
State: _____ Zip: _____

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Operator's Name: ORNI 43 LLC

Address: 6225 Neil Road

City, St Zip: Reno, NV 89511

Drilling Contractor's Name: Geodrig

Address: 4782 Highway 111

City, St Zip: Brawley, CA 92227

Rotary Rig Description:

Hole Size: 26" Casing Size: 22" 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, 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: 3650' TVD (~4010' MD)

Drilling will Commence On or Before: 11/1/2015

Signature of Applicant/Agent:

Date: 10/8/2015

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
and
Linda Wells.....lwells@minerals.nv.gov
7. Additional Conditions/Comments

A.	
B.	
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 12/16/2015 with the conditions noted above.
Date

Permit Number 1398



Deputy Administrator
Division of Minerals