

STATE OF NEVADA  
COMMISSION ON MINERAL RESOURCES  
**RECEIVED DIVISION OF MINERALS**  
400 W. King Street, Suite 106  
Carson City, Nevada 89703  
(775) 684-7040 ! Fax (775) 684-7052

AUG 10 2011

Division of Minerals

Date Received	
API Number	27-027-90084
County	Pershing
Permit Number	1256
FOR DIVISION USE ONLY	

**GEOHERMAL INJECTION WELL PERMIT APPLICATION**

The applicant  
ORNI 15 LLC

Name (or Corporate/Business Name)

of

Street Address 6225 Neil Rd.

City Reno State NV Zip Code 89511

Telephone (775) 356-9029

Email skessler@ormat.com

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.)

Applicant is:  Land Owner  Lease Holder

Well Name: 14-34

Lease Name/No: NVN-77483

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

Type and Amount of Bond: BLM Statewide \$50K; NDOM Statewide \$75K  
(Exempt for Domestic Class)

Bond Issued by: Bank of America CD

Serial No. BLM 284 (NDOM not numbered)

Well Location: SW  $\frac{1}{4}$ , NW  $\frac{1}{4}$ , Section 34

Township 27N, Range 40E, County Pershing

UTM Northing 4446545 N; UTM Easting 459721 E (Using NAD27 Datum)

Operator's:

Name: Ormat Nevada, Inc.

Address: 6225 Neil Rd.

City, St Zip: Reno, NV 89511

**GEOHERMAL INJECTION WELL PERMIT APPLICATION**  
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Drilling Contractor's:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, St Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Hole Size: 14-3/4" Casing Size: 13-3/8 Weight/Gauge: 68 lb/ft

Size of BOP:  2000 psi  3000 psi  5000 psi

Rotary Description:

Rotary (Please see attached drilling program)

Identify or locate the sources of the fluids which will be injected:

geothermal resource

Estimated average daily volume of fluids injected 1.5 million gallons.

Maximum daily volume of fluids injected 4 million gallons.

Estimated maximum injected pressure 600 psi, temperature 145 EF

List proposed metering equipment, pipelines and safety devices that will be used to prevent accidental pollution:

If successful, metering equipment will be installed per UIC permit requirements

Total Depth to be Drilled: 4000'

Drilling will Commence On: August 2011

Is this well location under an Underground Injection Permit?

If so, provide NDEP Permit number UNEV UNEV2011201

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: \_\_\_\_\_

Date: August 9, 2011

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. Additional Conditions

A. See attached COS.

B. Under Project Area Permit 900.

C. \_\_\_\_\_

**PERMIT APPROVAL**

Approved 8/18/11 with the conditions noted above.  
Date

Permit Number 1356

Alan R. King  
Administrator  
Division of Minerals