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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

Date Received	
API Number	<u>27-031-90285</u>
County	<u>Washoe</u>
Permit Number	<u>1358</u>
FOR DIVISION USE ONLY	

GEOHERMAL INJECTION WELL PERMIT APPLICATION

The applicant

Ormat Nevada Inc.

Name (or Corporate/Business Name)

of

Street Address 6225 Neil Rd.

City Reno State NV Zip Code 89511

Telephone 775-356-9029

Email adykema@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: 21-32

Lease Name/No: _____ Split Estate? Yes No

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

Type and Amount of Bond: \$75,000 CD
(Exempt for Domestic Class)

Bond Issued by: Bank of America

Serial No. _____

Well Location: NW 1/4, NW 1/4, Section 32

Township 18N, Range 20E, County Washoe

UTM Northing 04363500 N; UTM Easting 0261647 E (NAD83 Datum)

Operator's:

Name: Ormat Nevada Inc.

Address: 6225 Neil Rd.

City, St Zip: Reno, NV 89511

Drilling Contractor's:

Name: Geo-drill

Address: 4782 Hwy 111

City, St Zip: Brawley, CA 92227

Telephone: 775-356-9029

Hole Size: 36" Casing Size: 30" Weight/Gauge: 94 lb/ft J-55

Size of BOP: 2000 psi 3000 psi 5000 psi

Rotary Description:

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

Existing production wells within the Steamboat Geothermal Complex well field

Estimated average daily volume of fluids injected 7 million gallons.

Maximum daily volume of fluids injected 14 million gallons.

Estimated maximum injected pressure 250 psi, temperature 140 °F

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

Total Depth to be Drilled: 3,200'

Drilling will Commence On: 4-1-14

Is this well location under an Underground Injection Permit?

If so, provide NDEP Permit number UNEV _____

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: 3-5-14



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.....lprice@govmail.state.nv.us
and
Lindalwells@govmail.state.nv.us
7. Additional Conditions/Comments

A.	
B.	
C.	

PERMIT APPROVAL

Approved 4/15/2014 with the conditions noted above.
Date

Permit Number 1358



Deputy Administrator
Division of Minerals