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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	90073
API Number	27-007-90073
County	ELRO
Permit Number	1151
FOR DIVISION USE ONLY	

**GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION**

Name or Corporate/Business Name

~~Ormat Nevada Inc.~~ HSSII, SUBSIDIARY OF ORMAT NEVADA, INC.

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: 66A-5

Lease Name/No: Hot Sulphur Springs

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

Location of Well:

Domestic: Street: Project area Permit #673

City: Tuscarora County: Elko

Commercial and Industrial: NW  $\frac{1}{4}$  of, SE  $\frac{1}{4}$  in Section 5,  
Township 41N, Range 52E,

UTM Datum Used:	<input checked="" type="checkbox"/> NAD83 Datum	<input type="checkbox"/> NAD27 Datum
UTM Northing	<u>4592231</u>	N; UTM Easting <u>570864</u> E

County Elko

(If applicable, give street address below.)

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

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

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

Operator's Name: Ormat Nevada Inc.

Address: 6225 Neil Road

City, St Zip: Reno, Nevada 89511

Drilling Contractor's Name: GeoDrill

Address: 4782 Hwy 111 Brawley

City, St Zip: Brawley, CA 92227

Rotary Rig Description: Rotary

Hole Size: 42-in. Casing Size: 30-in. Weight/Gauge: 0.375-in.

Estimated Well Head Temperature: 350 F

Size of BOP:  2000 psi  3000 psi  5000 psi

Planned Use of Geothermal Resource:

Geothermal electric energy production

Planned Disposal of Spent Geothermal Fluid:

Reserve Pit

Type and Amount of Bond: NDOM bond \$75,000

(Exempt for Domestic Class)

Bond Issued by: Bank of America CD (NDOM) Serial No. \_\_\_\_\_


The Source of the Proposed Geothermal Resource is:

Hot Sulphur Springs KGRA

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

Total Depth to be Drilled: 5000 ft (total vertical depth)

Drilling will Commence On or Before: July 25, 2010

Signature of Applicant/Agent: 

Date: 7/21/10

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. Additional Conditions

A. See attached COA.

B. Under Project Area Permit 673.

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

**PERMIT APPROVAL**

Approved JULY 22, 2010 with the conditions noted above.  
Date

Permit Number 1151

Doug Dresner  
Deputy Administrator  
Division of Minerals