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JAN 21 2010

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	27-013-90113
County	Humboldt
Permit Number	1086
FOR DIVISION USE ONLY	

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

The applicant

Nevada Geothermal Power CO.

Name (or Corporate/Business Name)

of

Street Address 220-1755 East Plumb Lane

City Reno State NV Zip Code 89502

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.)

Organizational chart on file with DOM

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: 68-4

Lease Name/No: Hot Springs Ranch (Section 4 south 1/2)

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

Location of Well:

Domestic: Street: _____
City: _____ County: _____

Commercial and Industrial: SW ¼ of, SE ¼ in Section 4
Township 33N, Range 40E,
UTM Northing 4511696.498 N; UTM Easting 459671.444 E (Using NAD27 Datum)
County Humboldt

(If applicable, give street address below.)

Street: _____
City: _____
State: _____ Zip: _____

**GEOTHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION
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Operator's Name: Nevada Geothermal Power CO.

Address: 220-1755 East Plumb Lane

City, St Zip: Reno, NV 89502

Drilling Contractor's Name: Ensign United States Drilling

Address: 7001 Charity Avenue, Bakersfield

City, St Zip: CA 93308

Rotary Rig Description: Ensign 587

Hole Size: 36", 26", 17 1/2", 12 1/4" Casing Size: 30", 20", 13 3/8", 9 5/8" Weight/Gauge: 118.65#, 94#, 68#, 40#

Estimated Well Head Temperature: 300F

Size of BOP: 2000 psi 3000 psi 5000 psi
 12 1/4" 13 5/8"

Planned Use of Geothermal Resource:

Production Well

Planned Disposal of Spent Geothermal Fluid:

All spent geothermal fluid will be contained reserve pit adjacent to the well.

Type and Amount of Bond: \$ 50,000 Statewide Bond

(Exempt for Domestic Class)

Bond Issued by: Nevada Geothermal Power Co.

Serial No. N-58196 NVB000504

The Source of the Proposed Geothermal Resource is:

Meta-Sediment of Triassic Age.

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

Total Depth to be Drilled: ~6,000 feet

Drilling will Commence On or Before: 20 February 2010

Signature of Applicant/Agent: 

Date: 20 January 2010

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. _____
- C. _____

PERMIT APPROVAL

Approved JANUARY 22 2010 with the conditions noted above.
Date

Permit Number 1086

Doug Dresner
Deputy Administrator
Division of Minerals