

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>27-013-90132</u>
County	<u>Humboldt</u>
Permit Number	<u>1254</u>
FOR DIVISION USE ONLY	

**REVISED**

**GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION**

Name or Corporate/Business Name

Oro Vaca Inc.

Street Address 5716 S. Bemis St.

City Littleton State CO Zip Code 80120

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.)

Nevada Corporation

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: HSR OH 83-35  
Lease Name/No: Hot Springs Ranch  
Land Type:  Federal (BLM, USFS, etc.)  Private  State

Location of Well:

Domestic: Street: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_

Commercial and Industrial:

SE \_\_\_\_\_ ¼ of, NE \_\_\_\_\_ ¼ in Section 35  
Township 37 N, Range 43E

UTM Northing 4543173 N; UTM Easting 492795 E (Using NAD27 Datum)  
\*\*Note: Please convert UTM's from NAD83 to NAD27\*\*

County Humboldt

(If applicable, give street address below.)

Street: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_

Operator's Name: Oro Vaca Inc.

Address: 5716 S. Bemis St.

City, St Zip: Littleton, CO 80120

Drilling Contractor's Name: Hydro Resources

Address: 4975 W. Winnemucca Blvd

City, St Zip: Winnemucca, NV 89445

Rotary Rig Description: Truck mounted Rotary mud

Hole Size: 6.125" Casing Size: 4" Weight/Gauge: 10.9#/Schedule 40

Estimated Well Head Temperature: NA

Size of BOP:  2000 psi  3000 psi  5000 psi

Planned Use of Geothermal Resource:

Observation hole

Planned Disposal of Spent Geothermal Fluid:

No production anticipated

Type and Amount of Bond: \$10,000 Cash

(Exempt for Domestic Class)

Bond Issued by: \_\_\_\_\_ Serial No. \_\_\_\_\_

The Source of the Proposed Geothermal Resource is:

NA - observation hole

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

Total Depth to be Drilled: 2000 feet

Drilling will Commence On or Before: 7 September 2011

Signature of Applicant/Agent: \_\_\_\_\_

Date: 12 September 2011

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. all previous COA apply -
- B. Daily reports (drilling) are to be sent to Bruce Price @ price@govmail.state.nv.us
- C. and Brenda Wilson @ wilson@govmail.state.nv.us

**PERMIT APPROVAL**

Approved 9/12/11 with the conditions noted above.  
Date

Permit Number 1254

Alan R. [Signature]  
Administrator  
Division of Minerals