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DEC 26 2013

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	27-031-90281
County	Washoe
Permit Number	1347
FOR DIVISION USE ONLY	

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name

Ward Chilton

Street Address

1900 Manzanita Lane

City

Reno

State Nev

Zip Code

89509

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.)

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:

Domestic Well

Lease Name/No:

Split Estate?

Yes

No

Land Type:

Federal (BLM, USFS, etc.)

Private

State

Location of Well:

Domestic:

Street:

1880 Manzanita Lan

City:

Reno

County:

Washoe

Commercial and Industrial:

NE 1/4 of SW 1/4 in. Section 26
Township 19 N, Range 19 E

UTM Northing 119.81901 N; UTM Easting 39.48254 E (NAD83 Datum)

County

(If applicable, give street address below.)

Street:

City:

State:

Zip:

Operator's Name: Ward Chilton

Address: 1900 Manzanita Lane

City, St Zip: Reno, Nev 89509

Drilling Contractor's Name: McKay Drilling

Address: 4850 Soule St AS

City, St Zip: Reno, Nev 89502

Rotary Rig Description: Ingersoll - Rand T4 W

Hole Size: 11" Casing Size: 6 5/8 Weight/Gauge: 12.97 - 188

Estimated Well Head Temperature: 200

Size of BOP: NA 2000 psi 3000 psi 5000 psi

Planned Use of Geothermal Resource:

Home Heating

Planned Disposal of Spent Geothermal Fluid:

None - (LHP) NO FLUID TO SURFACE, WILL USE DOWN HOLE HEAT EXCHANGER

Type and Amount of Bond: NA
(Exempt for Domestic Class)

Bond Issued by: _____ Serial No. _____

The Source of the Proposed Geothermal Resource is:

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

Total Depth to be Drilled: 400'

Drilling will Commence On or Before: 1-2-14

Signature of Applicant/Agent: Steve McKay

Date: 12/24/2013

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

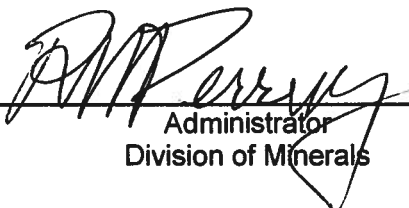
1. All permittees must comply with appropriate sections of the Geothermal Rules and Regulations of the Division of Minerals and with applicable rules and regulations of other local, state, and federal agencies.
2. During the drilling of domestic geothermal wells, all water strata above the geothermal 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. 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 1-7-14 with the conditions noted above.
Date

Permit Number 1347



Administrator
Division of Minerals