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JUL 27 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	97-017-90001
County	Lincoln
Permit Number	1156
FOR DIVISION USE ONLY	

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name

Gregory Barlow

Street Address

P.O. Box 1005 18 N. Spring St

City

Caliente

State

NV

Zip Code

89008

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:

Barlow #1

Lease Name/No:

Land Type:

Federal (BLM, USFS, etc.)

Private

State

Location of Well:

Domestic:

Street:

Antelope Canyon Rd

City:

Caliente

County:

Lincoln

Commercial and Industrial:

NE 1/4 of,

SW 1/4 in Section 5

Township

4S

Range

67E NDM

UTM Datum Used:

NAD83 Datum

NAD27 Datum

UTM Northing

N;

UTM Easting

E

County

(If applicable, give street address below.)

Street:

500 Antelope Canyon Rd

City:

Caliente

State:

NV

Zip:

89008

Operator's Name: TO BE DETERMINED
Address: _____
City, St Zip: _____

Drilling Contractor's Name: _____
Address: _____
City, St Zip: _____

Rotary Rig Description: Rotary Mud

Hole Size: 10" Casing Size: 6" Weight/Gauge: Std 40, 188 lb/ft 6 7/8" O.C.

Estimated Well Head Temperature: 180° ±

X Size of BOP: 2000 psi 3000 psi 5000 psi

Planned Use of Geothermal Resource:
SPACE HEATING, GREENHOUSE, VEGETABLE GROWTH,

Planned Disposal of Spent Geothermal Fluid:
Recirculation

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

X Bond Issued by: _____ Serial No. _____

The Source of the Proposed Geothermal Resource is:
Antelope Canyon Aquifer
(List name of hot spring, geologic formation(s) or other source.)

Total Depth to be Drilled: 200'

Drilling will Commence On or Before: January 1, 2012

Signature of Applicant/Agent: [Signature]
Date: 7/20/10

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. Upon completion of the well - send a "Completion Report" to the Division.
- C. _____

PERMIT APPROVAL

Approved 7/27/10 with the conditions noted above.
Date

Permit Number 1156

Alan R. Lynn
Administrator
Division of Minerals