

AMENDED

Nº 48123

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office JUN 20 1984
Returned to applicant for correction AUG 2 1984
Corrected application filed AUG 8 1984
Map filed AUG 8 1984

The applicant Sierra Reflections Corporation
8383 Wilshire Blvd., Ste 517, of Beverly Hills
California 90211, hereby make S application for permission to appropriate the public
waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorpora-
tion; if a copartnership or association, give names of members.) June 21, 1978 State of Nevada

1. The source of the proposed appropriation is underground
Name of stream, lake, spring, underground or other source

2. The amount of water applied for is 0.25 second-feet
One second-foot equals 448.83 gals. per min.

(a) If stored in reservoir give number of acre-feet

3. The water to be used for Quasi-municipal/geothermal (heating and cooling)
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.

4. If use is for:

(a) Irrigation, state number of acres to be irrigated

(b) Stockwater, state number and kinds of animals to be watered

(c) Other use (describe fully under "No. 12. Remarks")

(d) Power:

(1) Horsepower developed

(2) Point of return of water to stream

5. The water is to be diverted from its source at the following point within the NE 1/4 NE 1/4, Section
13 T.17N., R.19E., MDB&M, or at a point from which the NE corner of
said section 13 bears N.64°25'E., a distance of 433.9 feet.

6. Place of use NE 1/4 and SE 1/4, Section 13, T.17N., R.19E. and NW 1/4, and portions
of the NW 1/4 NE 1/4, SW 1/4 NE 1/4, Section 18, T.17N., R.20E. MDB&M

7. Use will begin about January 1 and end about December 31, of each year.

8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and
specifications of your diversion or storage works.) Heat will be extracted via downhole
heat exchanger; or water will be diverted from well to heat exchangers at a place of use, then
injected back into the aquifer.

9. Estimated cost of works \$100,000.00

10. Estimated time required to construct works..... 2 years  
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use..... 5 years

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

The consumptive use of water will be zero (0) acre-feet per annum.  
Heat may be extracted via a downhole heat exchanger; alternatively,  
water in the amount of 100 to 125 gpm will be diverted to surface  
heat exchangers at places of use and the heat-spent fluids will be  
injected into the subsurface.

By s/William E. Nork  
William E. Nork  
1026 W. First Street  
Reno, Nevada 89503

Compared bm/se js/bc

Protested.....

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of geothermal fluid herein granted is only a temporary allowance and that the final right obtained under this permit will be dependent upon the amount actually placed to beneficial use. It is also understood that this right must allow for a reasonable decrease of fluid pressure and heat. The well shall be equipped and maintained to prevent any waste of the geothermal fluid. Accurate measurements must be kept of discharge of the production and the amount of fluid injected into the injection well to determine the total amount of fluid consumed for a beneficial use.

The production and injection well are to be cemented from the producing levels to the surface to protect fresh water zones. This permit is issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes and fresh, cold water aquifers are not to be diverted. The used geothermal fluids are to be returned to the source via the injection well. The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies. A detailed log on the injection well and/or other analyses of the system used for returning the used geothermal to the source must be submitted together with the Proof of Completion.

(CONTINUED ON Page 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed 0.25 cubic feet per second.

Work must be prosecuted with reasonable diligence and be completed on or before November 27, 1986

Proof of completion of work shall be filed before December 27, 1986

Application of water to beneficial use shall be made on or before November 27, 1989

Proof of the application of water to beneficial use shall be filed on or before December 27, 1989

Map in support of proof of beneficial use shall be filed on or before December 27, 1989

Completion of work filed..... IN TESTIMONY WHEREOF, I PETER G. MORROS  
State Engineer of Nevada, have hereunto set my hand and the seal of

Proof of beneficial use filed..... my office, this 27th day of November

Cultural map filed..... A.D. 1985

Certificate No. Issued.....  
State Engineer

CANCELLED FEB 11 1987 BECAUSE OF FAILURE OF APPLICANT TO COMPLY WITH THE PROVISIONS OF PERMIT

STATE ENGINEER

(PERMIT TERMS CONTINUED)

An annual report for this well must be filed under this permit describing the amount of geothermal fluid consumed to a beneficial use for the calendar year. This report must also detail the amount of fluid produced and injected.

The total withdrawal of the geothermal fluid shall be limited to 181 acre-feet per year but the total consumptive use of the geothermal fluid is limited to only incidental fluid losses in the system and in no case shall it amount to more than 1% of the volume withdrawn annually. The State Engineer does not waive the right to make a determination of incidental fluid losses at any time and impose additional conditions thereto.