

ASSIGNED

AMENDED APPLICATION FOR PERMIT

No 50309

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office... OCT 23 1986
Returned to applicant for correction... DEC 10 1986
Corrected application filed... JAN 22 1987
Map filed... JAN 22 1987

The applicant... Michael B. Stewart, DBA Empire Farms
P.O. Box 1021, of Yerington, Nevada 89447, hereby make application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated.

- 1. The source of the proposed appropriation is underground geothermal fluids within the San Emidio Desert KGRA.
2. The amount of water applied for is 4.9 second-foot.
3. The water to be used for Industrial.
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 Megawatts electricity. (2) Point of return of water to stream.
5. The water is to be diverted from its source at the following point SE 1/4 NW 1/4 Sec 21, T. 29N, R. 23E.
6. Place of use SE 1/4 NW 1/4 Section 21, T. 29N, R. 23E, Washoe County, Nevada, in the San Emidio KGRA.
7. Use will begin about January 1st and end about December 31st, 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.) Geothermal fluids will be pumped to the surface for generation of electricity (well depth 300 feet).
9. Estimated cost of works \$3,000,000.00

10. Estimated time required to construct works..... 12 months (well not completed).....  
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use..... 3 years.....

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

.....Electrical production.....

.....Food Processing (Greenhouse).....

.....Aquaculture (fish rearing)..... (Annual Consumptive use 4.9 cfs).....

.....(Well specifications and plan of operation are on file with the Nevada Department of Minerals).....

s/ Dennis T. Trexler  
By.....Dennis T. Trexler.....

P.O. Box 5011  
Reno, Nevada 89513-5011

Compared..... mm/se..... pm/se.....

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 well and the amount of fluid injected into the injection well to determine the total amount of fluid diverted and 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 (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..... 4.9..... cubic feet per second.....

Work must be prosecuted with reasonable diligence and be completed on or before..... December 21, 1988.....

Proof of completion of work shall be filed on or before..... January 21, 1989.....

Application of water to beneficial use shall be made on or before..... December 21, 1991.....

Proof of the application of water to beneficial use shall be filed on or before..... January 21, 1992.....

Map in support of proof of beneficial use shall be filed on or before..... N/A.....

Completion of work filed..... FEB 21 1989..... 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..... 21st..... day of..... December.....

Cultural map filed..... A.D. 19..... 87.....

Certificate No..... Issued.....  
State Engineer

*Peter G. Morros*  
State Engineer

218 (Rev.)  
CANCELLED APR 28 1992 BECAUSE OF FAILURE OF APPLICANT TO COMPLY WITH THE PROVISIONS OF PERMIT

*[Signature]*  
STATE ENGINEER

## (PERMIT TERMS CONTINUED)

fluids to the source must be submitted together with the Proof of Completion.

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

The total withdrawal of the geothermal fluid shall be limited to 3547 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 20% 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. This permit is further issued subject to the provisions of NRS 533.372(1) and with the understanding that the power or energy generated by the beneficial use of this water or steam is subject to recapture and use within the boundaries of the State of Nevada when the need arises.

