

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office..... JAN 25 1984

Returned to applicant for correction..... FEB 16 1984

Corrected application filed.....

Map filed..... FEB 9 1984

The applicant..... Steam Reserve Corporation

1707 Cole Boulevard....., of..... Golden.....
Street and No. or P.O. Box No. City or Town

Colorado 80401....., hereby make.... application for permission to appropriate the public
State and Zip Code No.

waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.)... Incorporated in the State of
Delaware, November 10, 1982

1. The source of the proposed appropriation is..... Underground - Well No. 77-29
Name of stream, lake, spring, underground or other source

2. The amount of water applied for is..... 8.96 (less than 20% will be consumed)..... 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..... Commercial power generation
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")..... geothermal production

(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..... SW¼ SE¼ Section 29, T.1N., R.38
Describe as being within a 40-acre subdivision of public
1/2E., M.D.B.&M., or at a point which bears S. 27° 17' W., 9340' to the NE
survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.
corner of Section 6, T1S., R.39E., M.D.B.&M.

6. Place of use..... SW¼ SE¼ Section 29, T.1N., R.38 1/2E., M.D.B.&M.
Describe by legal subdivision. If on unsurveyed land, it should be so stated.

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

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 Well
State manner in which water is to be diverted, i.e. diversion structure, ditches and

fumes, drilled well with pump and motor, etc.

9. Estimated cost of works..... \$1 - \$1.5 million

10. Estimated time required to construct works..... One year
If well completed, describe works.....

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

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

Exploration well to develop geothermal resources.

By s/James P. Haddan
JAMES P. HADDAN, P.E., R.L.S., Agent
1807 North Nevada Street
Carson City, Nevada 89701

Compared bc/b1 11/bm

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 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 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 (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 8.96 cubic feet per second.

Work must be prosecuted with reasonable diligence and be completed on or before March 6, 1987

Proof of completion of work shall be filed before April 6, 1987

Application of water to beneficial use shall be made on or before March 6, 1992

Proof of the application of water to beneficial use shall be filed on or before April 6, 1992

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

Completion of work filed..... IN TESTIMONY WHEREOF, I PETER G. MORROS

Proof of beneficial use filed..... State Engineer of Nevada, have hereunto set my hand and the seal of

Cultural map filed..... my office, this 4TH day of JANUARY

Certificate No..... Issued..... A.D. 19 85

Peter G. Morros
State Engineer

218 (Rev. FEB 21 1992)
APPLICANT
James P. Haddan P.E.
STATE ENGINEER

(PERMIT TERMS CONTINUED)

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 6,485 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.

This Permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal, and local agencies.