

APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

Date of filing in State Engineer's Office AUG 16 1990

Returned to applicant for correction

Corrected application filed Map filed OCT 17 1990

The applicant Yankee/Caithness Joint Venture, L.P.

P.O. Box 18160 of Reno Nevada 89511

hereby make S application for permission to change the

Place of Use

of water heretofore appropriated under Permit No. 34917

identify right in Decree.

1. The source of water is underground

2. The amount of water to be changed 10.0 cfs

3. The water to be used for industrial and domestic

4. The water heretofore permitted for industrial and domestic

5. The water is to be diverted at the following point NW 1/4 NW 1/4 Section 5, T.17N., R.20E., M.D.B.&M., or at a point from which the NW corner of said Section 5 bears N 69° 20' W a distance of 814.9 feet. Well No. 21-5.

6. The existing permitted point of diversion is located within N/A

7. Proposed place of use N 1/2, NW 1/4 SW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4 and N 1/2 SW 1/4 SW 1/4 Section 5, T.17N., R.20E., M.D.B.&M. and Section 32, T.18N., R.20E., M.D.B.&M.

8. Existing place of use Section 5, T.17N., R.20E., M.D.B.&M.

9. Use will be from January 1st to December 31st of each year.

10. Use was permitted from January 1st to December 31st of each year.

11. 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 production well No. 21-5 already drilled and piping to existing power plant already installed. Applicant may install a separator near the wellhead and separately pipe the steam and fluid to the power plant.

12. Estimated cost of works up to \$250,000.00.

13. Estimated time required to construct works casing is cemented to 1,297 feet. Installation of a separator and new pipeline may take up to five (5) years.

14. Estimated time required to complete the application of water to beneficial use Approximately five (5) years.

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

The purpose of this application is to change the previously permitted place of use.

This well is currently producing steam and geothermal fluid utilized by an existing power plant located in Section 5, T.17N., R.20E., M.D.B.&M. Future electrical generation units to be built adjacent to the existing power plant or in Section 32, T.18N., R.20E., M.D.B.&M. may also utilize steam and geothermal fluid from this well.

s/T. S. Deforg  
By for Yankee/Caithness Joint Venture, L.P.  
P.O. Box 18160  
Reno, Nevada 89511

Compared bc/ mv am/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 to change the place of use of the geothermal fluid as heretofore granted under Permit 34917 is issued subject to the terms and conditions imposed in said Permit 34917 and with the understanding that no other rights on the source will be affected by the change proposed herein.

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 (CONTINUED ON PAGE 2)

The amount of water to be changed shall be limited to the amount which can be applied to beneficial use, and not to exceed 10.0 cubic feet per second, but not to exceed 3620.0 acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before July 27, 1991

Proof of completion of work shall be filed before August 27, 1991

Application of water to beneficial use shall be made on or before July 27, 1992

Proof of the application of water to beneficial use shall be filed on or before August 27, 1992

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

Completion of work filed OCT 23 1998

Proof of beneficial use filed OCT 23 1998

Cultural map filed.....

Certificate No. 15206 Issued MAY 10 1999

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNIPSEED, P.E., State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 20th day of March,

A.D. 1991

R. Michael Turnipseed, P.E.  
State Engineer

## (PERMIT TERMS CONTINUED)

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 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 under this permit shall be limited to 7240 acre-feet per year but the total consumptive use of this permit shall not exceed 3620.0 acre-feet 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.

The total combined consumptive use under Permits 50914, 53848, 55191, 55192, 55193, 55194, 55195, 55196, 55197, 55198 and 55199 shall not exceed the total combined diversion rate or 7963.67 acre-feet annually.

