

APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

APR 16 1981

Date of filing in State Engineer's Office

Returned to applicant for correction

Corrected application filed

Map filed APR 16 1981 under 43552

The applicant Sunoco Energy Development Company 12700 Park Central Pl., Box 9, Suite 1500, of Dallas Texas (75251) hereby make application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated.

Incorporated January 2, 1975 in the State of Delaware

1. The source of the proposed appropriation is Underground Well No. 83-24

2. The amount of water applied for is 3.25 second-feet

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

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) Point of return of water to stream

5. The water is to be diverted from its source at the following point: SE 1/4 NE 1/4 Section 24, T24N, R36E, M.D.B. & M., or at a point from which the Northwest corner of Section 5, T24N, R37E, M.D.B. & M. bears, N 18° 22' 51" E a distance of 18,477.7 feet

6. Place of use Section 32, T25N, R37E, M.D.B. & M., Sections 4, 5, 6, 7, 8, 16, 17, 18, 19, 20, 21, T24N, R37E, M.D.B. & M., Sections 12, 13, 24, T24N, R36E, M.D.B. & 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.) Drill well to approximately 6,000 feet, install casing and cement back to surface to protect fresh water zones. Hot water or steam will flow through pipeline to electric plant.

9. Estimated cost of works \$500,000

10. Estimated time required to construct works Two Years  
If well completed, describe works.

11. Estimated time required to complete the application 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.

This application is for a geothermal well with a production of 2.1 million gallons per day. The withdrawal will be 2352 acre feet per year; however, the high temperature water would be flashed with the net effect of 210,000 gallons per day being beneficially used and the remaining water returned to the reservoir so only 235 acre feet per year is actually used. This application is commingled with the other applications.

SUNOCO ENERGY DEVELOPMENT COMPANY

By s/Richard W. Arden  
Signature, applicant or agent

Compared sb/ bl bt/bc Richard W. Arden, Agent  
950 Industrial Way  
Sparks, Nevada (89431)

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 water herein granted is only a temporary allowance and that the final water right obtained under this permit will be dependent upon the amount of water actually placed to beneficial use. It is also understood that this right must allow for a reasonable lowering of the static water level. If the well is flowing, a valve must be installed and maintained to prevent waste. Accurate measurements must be kept of water placed to beneficial use. This source is located within an area designated by the State Engineer, pursuant to NRS 534.030. The State retains the right to regulate the use of the water herein granted at any and all times.

The well is to be cemented from the production levels to the surface to protect fresh water zones.

This permit is further issued subject to the condition 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 is further issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes only and fresh, cold water aquifers are not to be diverted.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed 3.25 cubic feet per second, but not to exceed a consumptive use of 235 acre-feet annually.

Actual construction work shall begin on or before N/A

Proof of commencement of work shall be filed before N/A

Work must be prosecuted with reasonable diligence and be completed on or before October 29, 1982

Proof of completion of work shall be filed before November 29, 1982

Application of water to beneficial use shall be made on or before October 29, 1987

Proof of the application of water to beneficial use shall be filed on or before November 29, 1987

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

Commencement of work filed  
Completion of work filed  
Proof of beneficial use filed  
Cultural map filed  
Certificate No. Issued  
Abrogated By 51034 3025

IN TESTIMONY WHEREOF, I PETER G. MORROS  
State Engineer of Nevada, have hereunto set my hand and the seal of  
my office, this 29th day of OCTOBER

A.D. 19 87  
*Peter G. Morros*  
State Engineer