

Application No. R-57719

Permit No. R 7938

STATE OF OREGON WATER RESOURCES DEPARTMENT

Application for a Permit to Construct a Reservoir

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WATER RESOURCES DEPT.  
SALEM, OREGON

I, Bussard, Lyche, et. al.  
(Name of Applicant)

of P. O. Box 1174, Bend  
(Mailing Address) (City)

State of Oregon, 97701, Phone No. 382-6455  
(Zip Code)

do hereby make application for a permit to construct for the Gillworth Irrigation reservoir  
and to store the unappropriated waters of the State of Oregon, subject to existing rights.

1. The name of the stream from which the reservoir is ~~not~~ filled is a dry canyon  
tributary to Deschutes River

2. If not in channel of a stream, state how it is ~~not~~ filled. from a delivery point  
of the Squaw Creek Irrigation District

3. The dam ~~will be~~ <sup>is</sup> located in the SE 1/4 of the NW 1/4 and  
NE 1/4 of the SW 1/4 of Section 31  
Township 13S, Range 12E, W. M.

4. The maximum height ~~will be~~ <sup>is</sup> 29 feet above stream bed or ground surface at the  
centerline. The top width ~~will be~~ <sup>is</sup> 16 feet, slope of upstream face 3:1  
slope of downstream face 2:1, and height of dam above water line when full  
5.0 feet.

5. The dam ~~will be~~ <sup>is</sup> (check one)  earthfill,  concrete,  flashboard,  other.  
If "other", give description:

6. Give the location, description, and dimensions of the outlet conduit: The outlet conduit  
is a 12 inch, wrapped, steel pipe through the dam.

(All dams across natural stream channels must be provided with an outlet conduit, of such capacity and location to pass the normal flow of the stream at any time)  
At present the pipe has a flanged gate valve for control. The applicant  
proposes to replace this with a grated slide gate and stem up the face  
of the dam.

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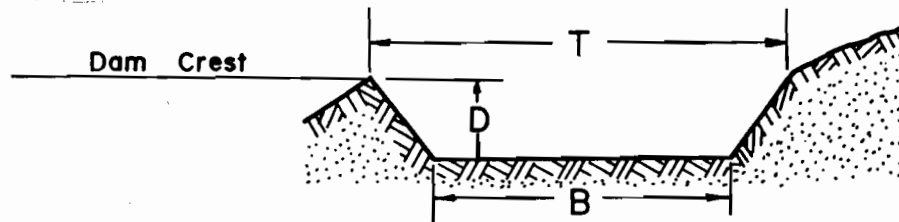
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7. The impounded water ~~will be~~<sup>is</sup> used for..... irrigation.....

8. The amount of water ~~to be~~ stored is..... 178..... acre feet.

9. The area submerged by the reservoir, when full, ~~will be~~<sup>is</sup>..... 25.5..... acres,  
and the maximum depth of water ~~will be~~<sup>is</sup>..... 23..... feet.

10. Give the location and dimensions of the spillway around the northerly end of the dam  
(State whether over or around dam)



The bottom width of the spillway, ~~will be~~<sup>is</sup>..... 20..... feet.

The top width of the spillway, ~~will be~~<sup>is</sup>..... 30..... feet.

The distance between the crest of the dam and the crest of the spillway, *D*, will be..... 5.0..... feet.  
(Must be at least 2 1/4 feet)

If any other type of spillway describe and give dimensions:

.....  
.....  
.....  
.....

11. Construction work will begin on or before..... 10-1-79.....

12. Construction work will be completed and the reservoir filled by..... 10-1-80.....

Remarks:..... Mr. Al Petska and Mr. Gary Oberholtzer inspected the  
..... site prior to construction. The applicant wishes to construct  
..... the conduit slide gate structure and spillway in accordance  
..... with Water Resources Department guidelines.....

..... The spillway dimensions proposed are designed to have the capacity  
..... for a 50 year flood of 310 cfs (taken from the state engineer's  
..... curve for predicting flood flows in the Upper Deschutes Basin).....  
..... A 40 hp vertical turbine pump is mounted in the dam and pumps  
..... water through a 10" mainline to wheel roll sprinklers at the fields  
..... described in the accompanying application to transfer water right.

..... James E. Bussard  
..... Signature of Applicant  
..... William Bussard

..... This is to certify that I have examined the foregoing application, together with the accompanying maps  
..... and data, and return the same for.....

..... In order to retain its priority, this application must be returned to the Water Resources Director with  
..... corrections on or before....., 19.....

..... WITNESS my hand this ..... day of ....., 19.....

..... Water Resources Director

..... By .....

..... This instrument was first received in the office of the Water Resources Director at Salem, Oregon, on the  
..... 31<sup>st</sup> day of July, 1928, at 8:00 o'clock A.M.  
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**Permit to Construct a Reservoir  
and Store for Beneficial Use the Public Waters  
of the State of Oregon**

*This is to certify that I have examined the foregoing application and do hereby grant the same subject to the following limitations and conditions. The right herein granted is limited to the construction of Gillworth Irrigation Reservoir and a dry canyon to be appropriated under Application No. 58583, Permit No. 44416 for irrigation*

*The right hereunder shall be limited to the storage of 178.0 acre feet.*

*The priority date of this permit is July 31, 1978*

*Actual construction work shall begin on or before October 17, 1980 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1981*

*WITNESS my hand this 17th day of October, 1979*

  
Water Resources Director