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STATE ENGINEER
SALEM, OREGON

* Reservoir Permit No **R 5776**

Application for a Permit to Construct a Reservoir and to Store for Beneficial Use the Unappropriated Waters of the State of Oregon

I, POWDER VALLEY WATER CONTROL DISTRICT
(Name of Applicant)

of NORTH POWDER, OREGON 97867
(Mailing Address)

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

If the applicant is a corporation, give date and place of incorporation

1. The name of the proposed reservoir is WOLF CREEK RESERVOIR

2. The name of the stream from which the reservoir is to be filled and the appropriation made is Wolf Creek Drainage will normally supply sufficient water
WOLF CREEK and ANTHONY CREEK to fill the reservoir. Water from Anthony Fork will only
be diverted to make up any deficiency in supply.
tributary of POWDER RIVER

3. The amount of water to be stored is 11,100 acre feet.
Irrigation, 10,350 ac. ft.

4. The use to be made of the impounded water is Recreation, 750 ac. ft.
(Irrigation, power, domestic supply, etc.)

5. The location of the proposed reservoir will be in Sec. 11
(Give sections or townships to be submerged)

Tp. 6S, R. 38E, W.M., in the county of Union

(a) State whether situated in channel of running stream and give character of material at outlet
Dam will be located across Wolf Creek Channel. Material at outlet consists of
alluvial deposits approximately 10 feet thick over bedrock.

(b) If not in channel of running stream, state how it is to be filled. If through a feed canal, give name and dimensions

6. The dam will be located in SW $\frac{1}{4}$ of SE $\frac{1}{4}$ and SE $\frac{1}{4}$ of SE $\frac{1}{4}$, Sec. 11
(Smallest legal subdivision)

Tp. 6S, R. 38E, W.M. The maximum height will be 128 feet above stream bed or ground surface on center line of dam. The length on top will be 1,550 feet; length on bottom 300 feet; width on top 30 feet; slope on front or water side 2 $\frac{1}{2}$:1; slope on back 1.8:1; height of dam above water line when full 10 feet.
(Feet horizontal to 1 vertical) (Feet horizontal to 1 vertical)

* A different form of application should be used for the appropriation of stored water to beneficial use. Such forms can be secured without charge, together with instructions, by addressing the State Engineer, Salem, Oregon.

7. The construction of dam, the material of which it is to be built, and method of protection from waves are as follows: The dam will be constructed with a centrally located clay core and free-draining outer shell. The clay-shell interface will be separated by a graded filter. The upstream face of the dam will be protected by rock riprap.

8. The location of wasteway with dimensions are as follows: A 30-foot wide concrete chute spillway with drop inlet and energy dissipating outlet will be located on the left abutment. An earth spillway will also be located on the left side of the reservoir to carry the portion of the freeboard hydrograph that is above the capacity of the chute.

9. The location of outlet from the proposed reservoir, with character of construction and dimensions, are as follows: A 54-inch diameter outlet will be installed in bedrock at base of dam. Outlet will be gated on upstream end. A downstream manifold will allow delivery of water to Wolf Creek, Shaw-Brant Ditch, Blevins Ditch and Maharry Ditch.

10. The area submerged by the proposed reservoir, when full, will be 220 acres, with a maximum depth of water of 125 feet; and approximate mean depth of water 50 feet.

11. The estimated cost of the proposed work is \$ 2,100,000

12. Construction work will begin on or before July, 1972

13. Construction work will be completed on or before November, 1974

Proctor Valley Water Control Dist
Signature of applicant
Wayne J. Overcash

STATE OF OREGON, }
County of Marion, } ss.

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before June 16, 1972.

WITNESS my hand this 17th day of April, 1972

CHRIS L. WHEELER
STATE ENGINEER

By Wayne J. Overcash
ASSISTANT

Application No. R 32222

Reservoir Permit No. R 5776

PERMIT

To construct a reservoir and store for beneficial use the unappropriated waters of the State of Oregon.

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 31st day of October, 1963, at 2:45 o'clock P. M.

Returned to applicant:

Approved:

April 21, 1972

Recorded in Book No. _____ of

Reservoirs, on Page R 5776

CHRIS L. WHEELER
State Engineer

Drainage Basin No. 9 page 345

Fees 79.50