

RECEIVED  
NOV 5 1965  
STATE ENGINEER  
SALEM OREGON

\* Reservoir Permit No. 11 5083

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

The United States of America, acting through the  
I, Regional Director, Region I, Bureau of Reclamation,  
(Name of Applicant)

of P. O. Box 8008, Boise  
(Mailing Address)

State of Idaho, 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 Mason

2. The name of the stream from which the reservoir is to be filled and the appropriation made is Powder River and tributaries above Mason Dam  
tributary of Snake River

3. The amount of water to be stored is 114,000 a.f. including approx. 14,000 acre feet. surcharge

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

5. The location of the proposed reservoir will be in Sec. 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 28, 29  
(Give sections or townships to be submerged)  
Tp. 10 S., R. 38 E., W. M., in the county of Baker

(a) State whether situated in channel of running stream and give character of material at outlet  
In channel. Sumpter Valley narrows to about 200 feet. Bed-rock on valley floor has overburden of 0 to 154 feet. Steep walls on each side.

(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 1/4 Sec. 24, NW 1/4, Sec. 25  
(Smallest legal subdivision)

Tp. 10 S., R. 38 E., W. M. The maximum height will be 167 feet above stream bed or ground surface on center line of dam. The length on top will be 930 feet; length on bottom 200 feet; width on top 35 feet; slope of front or water side 2 1/2 : 1; slope on back 2 : 1; height of dam above water line when full 11.5 feet above spillway lip. Height above maximum water surface 6.0 feet.

\* 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: Dam will be a sand, gravel and rockfill structure with a rolled earth core. Upstream face protected by 3 foot layer of riprap over 18 inches of gravel.

8. The location of wasteway with dimensions are as follows: Immediately adjacent to left abutment. It will be a concrete lined chute 20 feet wide anchored in rock. A surcharge capacity of approximately 14,000 a.f. (max w.s. El. 4076.0) plus 21,000 a.f. in joint use capacity in combination with spillway discharge of 900 cfs is provided to protect against the inflow design flood which has a peak of 9560 cfs and 15-day volume of 69,400 a.f.

9. The location of outlet from the proposed reservoir, with character of construction and dimensions, are as follows: Intake structure, tunnel and gate structure in left abutment. Tunnel will be a circular section, 6 feet-6 inch in diameter above gate. Capacity 860 cfs at normal flow of the stream at any time.) reservoir elevation 4076.

10. The area submerged by the proposed reservoir, when full, will be 2,450 acres, with a maximum depth of water of 161 feet; and approximate mean depth of water 40 feet.

11. The estimated cost of the proposed work is \$7,092,000 for dam and reservoir

12. Construction work will begin on or before Started

13. Construction work will be completed on or before July 1, 1969

Yoman H. Moore

(Signature of applicant)

Acting Regional Director

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections, on or before, 19

WITNESS my hand this day of, 19

STATE ENGINEER



Application No. P-31037  
Reservoir Permit No. W 5083

**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 13<sup>th</sup> day of August, 1956, at 8:00 o'clock A. M.

Returned to applicant:

Approved:

April 4, 1968

Recorded in Book No. \_\_\_\_\_ of  
Reservoirs, on Page W 5083

CHRIS I. WHEELER  
STATE ENGINEER

Drainage Basin No. 9 page 264