

Reservoir Permit No. 1734

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

I, JOHN HUDSPETH (Name of Applicant)

of PRINEVILLE, ORE. (Mailing Address)

State of ... 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 BARNES BUTTE RESERVOIR

2. The name of the stream from which the reservoir is to be filled and the appropriation made is UN-NAMED STREAM (SEE "REMARKS")

tributary of OCHOLO CREEK & CROOKED RIVER

3. The amount of water to be stored is 383.7 acre feet.

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. 28 (Give sections or townships to be submerged)

Tp. 14 S, R. 16 E, W. M., in the county of CROOK

(a) State whether situated in channel of running stream and give character of material at outlet SITUATED IN CHANNEL OF INTERMITTENT STREAM. MATERIAL AT ...

(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 NW 1/4 - NW 1/4 W 1/4 Sec. ... (Smallest legal subdivision)

Tp. ... R. 16 E, W. M. The maximum height will be ... feet above stream bed or ground surface on center line of dam. The length on top will be ... feet; length on bottom 416 feet; width on top 15 feet; slope of front or water side 3:1; slope on back 2:1; height of dam above water line when full 57 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: ROLLED, EARTH FILL DAM, RIP-RAP ON UPSTREAM FACE FOR PROTECTION AGAINST WAVE ACTION.

8. The location of wasteway with dimensions are as follows: CONCRETE SPILLWAY
(State whether over or around the dam)
AROUND SOUTH END OF DAM. BASE WIDTH: 11 FT.; FLOW DEPTH: 2.61 FT.;
RESERVOIR "H": 3.92 FT.; SLOPE: 0.012; VELOCITY: 15 FT/SEC.

9. The location of outlet from the proposed reservoir, with character of construction and dimensions, are as follows: ONE 18" ASBESTOS BONDED CORRUGATED STEEL PIPE OUTLET
(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.)
THROUGH DAM - STATIONS 1470 ~~4544~~ WITH VALVE IN UPSTREAM END,
ONE 12" TO BYPASS ANY REQUIRED FLOW ON NORTH SIDE OF BASIN

10. The area submerged by the proposed reservoir, when full, will be 32.4 acres, with a maximum depth of water of 27.5 feet; and approximate mean depth of water 11 feet.

11. The estimated cost of the proposed work is \$ 20,000

12. Construction work will begin on or before SEP. 15, 1914

13. Construction work will be completed on or before JUNE 1, 1915

[Signature]
State Engineer

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

Remarks: THE SOURCE OF WATER PREDOMINANTLY IS SPRINGS RISING WITHIN THE RESERVOIR BASIN AND IMMEDIATELY ABOVE THE DAM. THE OREGON IRRIGATION DISTRICT CANAL TRAVERSES THE WATER SHED COMPLETELY INTERCEPTING 3/4 OF THE WATER SHED. SEEPAGE LOSS FROM THE DISTRICT CANAL TOGETHER WITH WASTE WATER FROM IRRIGATED FIELDS ABOVE UNDOUBTEDLY CONTRIBUTE HEAVILY TO THE GROUND WATER, HOWEVER THE DRAINAGE BASIN GENERALLY HAS RELATIVELY POUROUS, SANDY OR PUMALOUS SOIL, WITH THE RESULT THAT VERY LITTLE SURFACE RUN OFF OCCURS. A PARTIALLY ERODED LIKE CUTTING ACROSS THE STREAM CHANNEL JUST ABOVE THE DAM SITE, PROPER, EVIDENTLY IS A CONTRIBUTING FACTOR TO THE CONCENTRATION OF GROUND WATER AT THIS POINT.

Fred W. [Signature]

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

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 Barnes Butte Reservoir and the storage of water from an Unnamed Stream to be appropriated under Application No. 29612, Permit No. 23497 for supplemental irrigation, and the dam shall be constructed under the supervision of a registered professional engineer.

The right hereunder shall be limited to the storage of 383.7 acre feet.

The priority date of this permit is December 10, 1954

Actual construction work shall begin on or before August 23, 1956 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 19 57.

WITNESS my hand this 23rd day of August 19 55

[Signature]
 STATE ENGINEER
 OK
 FJ

Application No. *R 228611*
Reservoir Permit No. *1734*

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 *10th* day of *December*, 19*54*, at *11:45* o'clock *A.* M.

Returned to applicant:

Approved:

August 23, 1955
Recorded in Book No. *6* of
Reservoirs, on Page *1734*

W. W. A. J. J. J.
STATE ENGINEER

Drainage Basin No. *5* page *667*

Fee paid \$17.84