

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

I, Talent Irrigation District (Name of Applicant)

of Talent, Oregon (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 Organized 1916 under State irrigation district laws

1. The name of the proposed reservoir is Howard Prairie

2. The name of the stream from which the reservoir is to be filled and the appropriation made is Several tributaries of the South Fork of Little Butte Creek, a tributary of Little Butte Creek as shown herein under Remarks (a) and Beaver Creek a tributary of Jenny Creek a tributary of Klamath River

3. The amount of water to be stored is 62,000 acre feet.

4. The use to be made of the impounded water is irrigation and power

5. The location of the proposed reservoir will be in Sec. 19, 29, 30, 31 and 32, T. 38 S., R. 3 E. and sec. 5 and 6 (Give sections or townships to be submerged) Tp. 39 S., R. 4 E., W. M., in the county of Jackson

(a) State whether situated in channel of running stream and give character of material at outlet In channel of running stream. At outlet about 20 feet earth overburden to rock

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

6. The dam will be located in (Smallest legal subdivision), Sec. 32 Tp. 38 S., R. 4 E., W. M. The maximum height will be 86 feet above stream bed or ground surface on center line of dam. The length on top will be 240 feet; length on bottom 270 feet; width on top 30 feet; slope of front or water side 3 to 1; slope on back 2 to 1; height of dam above water line when full 6 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: About 10 feet earth overburden on competent tuff-breccia. The impervious earth section to be placed in layers and rolled. Protection from waves will be by heavy dumped rock riprap.

8. The location of wasteway with dimensions are as follows: Spillway located on left abutment. It is a trapezoidal, concrete-lined side channel and transition to a concrete stilling channel. Spillway 18 feet wide and 900 feet long with vertical walls and designed to carry 3,500 cfs

9. The location of outlet from the proposed reservoir, with character of construction and dimensions, are as follows: A 44" O.D. steel pipe inside a 7' 6" concrete-lined horseshoe section located on right abutment. Capacity 80.4 cfs
(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.)

10. The area submerged by the proposed reservoir, when full, will be 2,150 acres, with a maximum depth of water of 80 feet; and approximate mean depth of water 30 feet.

11. The estimated cost of the proposed work is \$	Howard Prairie Dam and Reservoir	\$2,175,000
	Collection Canals	2,508,000
	Total	\$4,683,000

12. Construction work will begin on or before about 2 years

13. Construction work will be completed on or before 6 years after beginning

Talent Irrigation District
(Signature of applicant)
 By R. M. Kent
 Secretary

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: (corrected as of 2/24/58)

(b) Four collection canals, known as (1) Conde Creek Collection Canal; (2) Dead Indian Creek Collection Canal; (3) Daley Creek-Beaver Dam Creek Collection Canal; (4) South Fork Little Butte Creek Collection Canal, would be utilized to divert the water from the tributaries of the South Fork of Little Butte Creek to Howard Prairie Reservoir.

Conde Creek Collection Canal - Diversion point is located in the ~~SW~~ Section 9, T. 38 S., R. 3 E., W.M., approximately 1590 feet South 5°00' East from the west quarter corner of Section 9. (Drawing 415-128-227 is in error as to course of Conde Creek; Geological Quad Sheet and field survey of canal location established correct location of diversion point). The Conde Creek Collection Canal, 14,000 feet long, capacity 24 c.f.s., will lead from diversion point to junction with Dead Indian Creek at point in ~~SE~~ Section 15, T. 38 S., R. 3 E., W.M., said point being immediately above point of diversion from Dead Indian Creek described below.

Dead Indian Creek Collection Canal - Diversion point is located in the ~~SW~~ Section 15, T. 38 S., R. 3 E., W.M., approximately 1670 feet North 35°00' East from the South quarter corner of Section 15. 60 c.f.s. will be diverted from Dead Indian Creek; the Dead Indian Creek Collection Canal, with a capacity of 84 c.f.s., will carry the combined diversion of Conde Creek and Dead Indian Creek in a generally northeasterly direction 3900 feet, over the divide between the Rogue River drainage and the Klamath River drainage, into Howard Prairie Reservoir.

Daley Creek-Beaver Dam Creek Collection Canal - Diversion point from Daley Creek is located in the ~~SW~~ Section 34, T. 37 S., R. 4 E., W.M., approximately 750 feet North 23°00' East from the South quarter corner of Section 34; 25 c.f.s. will be diverted from Daley Creek and will be carried by the collection canal southwesterly 13,000 feet to the point of diversion from Beaver Dam Creek; this point is located in the ~~NE~~ of Section 4, T. 38 S., R. 4 E., W.M., approximately 2100 feet North 18°00' East from the south quarter corner of Section 4. 40 c.f.s. will be diverted from Beaver Dam Creek, and the collection canal, with a capacity of 65 c.f.s., will continue generally northwesterly 6000 feet to a junction with the South Fork Little Butte Creek Collection Canal at a point in the ~~NE~~ of Section 5, T. 38 S., R. 4 E., W.M., crossing Deadwood Creek in a siphon structure.

South Fork Little Butte Creek Collection Canal - Diversion
 point from South Fork Little Butte Creek is located in the ~~NE 1/4~~
 Section 16, T. 37 S., R. 4 E., W.M., approximately 1350 feet south
 36°00' West of the east quarter corner of Section 16. 65 c.f.s. will
 be diverted from South Fork Little Butte Creek and will be carried
 by the collection canal southwesterly 13,000 feet to the point of
 diversion from Pole Bridge Creek; this point is located in the ~~NE 1/4~~
 Section 28, T. 37 S., R. 4 E., W.M., approximately 1400 feet South
 22°00' West from the north quarter corner of Section 28. 5 c.f.s.
 plus or minus will be diverted from Pole Bridge Creek and the collec-
 tion canal, with a capacity of 65 c.f.s. will continue south and
 westerly 13,000 feet to the point of junction with the Daley Creek-
 Beaver Dam Creek Collection Canal in the ~~NW 1/4~~
 T. 38 S., R. 4 E., W.M., crossing Beaver Dam Creek in a siphon
 structure. From this junction point, the collection canal will
 continue in a southwesterly direction, with a capacity of 130 c.f.s.,
 5000 feet to the upstream portal of the Deadwood Tunnel, located in
 the ~~NE 1/4~~ of Section 6, T. 38 S., R. 4 E., W.M. The waters will
 then pass from the Rogue River drainage to the Klamath River drainage
 by way of the Deadwood Tunnel, capacity 130 c.f.s., length 3700 feet,
 to the outlet of the tunnel, and thence 11,000 feet by way of Grizzly
 Creek southwesterly into Howard Prairie Reservoir.

(c) Howard Prairie Dam, located in the ~~E 1/2 SW 1/4~~ Section 32, T. 38 S.,
 R. 4 E., W.M., will impound and collect for diversion, all waters of
 Grizzly Creek (Beaver Creek) and tributaries above the dam.

(d) The Howard Prairie Delivery Canal, capacity 60 c.f.s., has
 its origin at Howard Prairie Dam and will carry the impounded water
 from the dam to the Keene Creek Reservoir, located in Section 33,
 T. 39 S., R. 4 E., W.M. The canal will be about 98,700 feet long,
 and runs in a generally southwesterly direction, passing through the
 following sections: 32 and 33, T. 38 S., R. 4 E., W.M.; 4, 5, 9,
 15, 16, 21, 28, 29, 30, 31, T. 39 S., R. 4 E., W.M.; 25, 33 and 34,
 T. 39 S., R. 3 E., W.M.; and 1, 2, 3, and 4, T. 40 S., R. 3 E., W.M.
 Soda Creek and Little Beaver Creek, tributary to Jenny Creek, will
 be diverted into the Howard Prairie Delivery Canal. Point of diversion
 on Soda Creek is located in ~~SW 1/4 NW 1/4~~ Section 8, T. 39 S., R. 4 E.,
 W.M., approximately 2220 feet South 2°00' East of the northwest
 section corner of Section 8; 11 c.f.s. will be diverted by the Soda
 Creek Feeder Canal which will run northeasterly 8400 feet to a
 junction with the Howard Prairie Delivery Canal in the ~~NE 1/4 NW 1/4~~ of
 Section 9, T. 39 S., R. 4 E., W.M. Point of diversion on Little
 Beaver Creek is located in the ~~SE 1/4 SW 1/4~~ Section 19, T. 39 S., R. 4 E.,
 W.M., approximately 830 feet North 48°00' West from the south quarter
 corner of Section 19. 24 c.f.s. will be diverted by the Little Beaver
 Creek Feeder Canal, which will run southwesterly 2800 feet to a
 junction with the Howard Prairie Delivery Canal in the ~~SE 1/4 NW 1/4~~ of
 Section 30, T. 39 S., R. 4 E., W.M.

(Note - See Specifications No. DC-4947 - Present plans are for South
 Fork Little Beaver Creek, East Fork Corral Creek, and Corral Creek
 to be passed under the Howard Prairie Delivery Canal by culvert
 structures, and hence there will be no diversion from these three
 creeks.)

(e) Keene Creek Dam will impound water from the Howard Prairie
 Delivery Canal and will also divert all water from Keene Creek and
 tributaries above the dam. The dam is located in the ~~S 1/2 SW 1/4~~ of Section
 33, T. 39 S., R. 3 E., W.M.

(f) From Keene Creek Dam, the Green Springs Power Conduit and
 Green Springs Power Plant Penstock will carry the diverted water to
 the Green Springs Power Plant, located in the ~~SW 1/4 NE 1/4~~ of Section 2,
 T. 40 S., R. 2 E., W.M. The water is carried through the divide
 between the Klamath River drainage and the Rogue River drainage by
 the Cascade Divide Tunnel, a part of the Green Springs Power Conduit.

Plan of Development

The project will be an extension and addition to works of Talent Irrigation District.

Howard Prairie Reservoir in Klamath River drainage will be built to a capacity of 62,000 acre-feet. It will secure its water supply from a collection system tapping South Fork Little Butte Creek, Feltwater Creek, Riley Creek, Big Bran Creek, Deadwood Creek and East Indian Creek in Rogue River drainage as well as minor tributaries flowing into the reservoir. Howard Prairie delivery canal will transport water into Rogue River drainage, through Green Springs power plant, and into an enlarged Emigrant Reservoir (15,000 acre-feet) for regulation and storage. Along its route, Howard Prairie delivery canal will pick up water from Soda Creek, Little Beaver Creek, South Fork Little Beaver Creek, Corral Creek, and Kamas Creek, all in Klamath River drainage.

Canals will take off from Emigrant Reservoir on the east side of Bear Creek Valley to serve lands of Talent Irrigation District.

In addition to storage at Howard Prairie and Emigrant, the existing Hyatt Prairie Reservoir with a capacity of 16,300 acre-feet will also provide a source of supply. Diversions from several streams entering the valley will also be made.

Green Springs power plant with one unit of 20,000 kw will utilize releases from Howard Prairie and Hyatt Prairie Reservoirs. Water passing through the power plant will be stored in Emigrant Reservoir.

~~Remarks: (a) Two collection canals known as Big Draw South Fork Collection Canal and Dead Indian Collection Canal would be utilized to divert the waters from the tributaries of the South Fork of Little Butte Creek to Howard Prairie Reservoir. Big Draw South Fork Collection Canal would intercept runoff from South Fork of Little Butte Creek, Big Draw Creek, Daley Creek, Deadwood Creek, Polebridge Creek, and other unnamed streams and springs.~~

~~South Fork Collection Canal with a capacity of 76 cfs will divert from the South Fork of Little Butte Creek 1137.0 feet N. 90° 0' W. of NE corner sec. 20, T. 37 S., R. 4 E. and will extend from the point of diversion to the outlet of Big Draw siphon, a distance of 16,400 feet.~~

~~Big Draw Collection Canal will divert 30 cfs from Daley Creek at a point of diversion 500 feet N. 18° 0' E. from SW corner sec. 34, T. 37 S., R. 4 E. and cross Big Draw and Deadwood Creeks at diversion structures and join South Fork Collection Canal at the point of crossing Big Draw Creek. At the point of diversion from Big Draw Creek located 1,000 feet S. 30° 0' E. of NW corner sec. 4, T. 38 S., R. 4 E., 75 cfs will be diverted from Big Draw Creek and 15 cfs will be diverted from Deadwood Creek at a point of diversion 1,535 feet S. 68° 30' W. from NE corner sec. 5, T. 38 S., R. 4 E. From Big Draw Creek the canal will follow a general southwesterly direction 46,100 feet to Howard Prairie Reservoir and have a capacity of 150 cfs.~~

~~Dead Indian Collection Canal will divert 60 cfs from Dead Indian Creek at a diversion point 1,670 feet N. 35° 0' W. from S 1/4 corner of sec. 15, T. 38 S., R. 3 E. and follow a general northeasterly direction 2,600 feet to Howard Prairie Reservoir.~~

~~All diversions will be by structures less than 10 feet high.~~

(b) It is requested that the proposed appropriations listed in paragraph 2, and the storage thereof in Howard Prairie Reservoir, be granted from the waters withdrawn from appropriation by the State Engineer by authority of Chapter 77, Laws of Oregon for 1913, under application numbers 4496, 4497, and 4498, all dated September 6, 1915. It is further requested that the priority date of September 6, 1915 be established for this application.

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 Howard Prairie Reservoir and storage of water from Conde Creek, Dead Indian Creek, South Fork Little Butte Creek, Polebridge Creek, Daley Creek, Beaver Dam Creek, Deadwood Creek and Grizzly Creek (known as Beaver Creek in application No. 4498) as described on the attached sheet marked (b), to be appropriated application No. 28535, permit No. 25915 for irrigation, and application No. 28537, permit No. 25916 for generation of electric power and is for the storage of waters withdrawn by application No. 4497 and application No. 4498.

The right hereunder shall be limited to the storage of 62,000 acre feet.

The priority date of this permit is September 6, 1915

Actual construction work shall begin on or before March 16, 1960 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1964.

WITNESS my hand this 16th day of March, 1959.

Edward G. Stanley
STATE ENGINEER

Application No. *R-28586*
Reservoir Permit No. *2210*

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 *8th* day of *June*, 19*53*, at *8:00* o'clock *A*. M.

Returned to applicant:

Approved:

March 16, 1959

Recorded in Book No. *8* of
Reservoirs, on Page *2210*

LEWIS A. STANLEY
STATE ENGINEER

Drainage Basin No. *14* page *4*