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JUN 10 1919
STATE ENGINEER
OREGON

Permit No. 32674
CERTIFICATE NO. 46049

***APPLICATION FOR PERMIT**

To appropriate the Public Waters of the State of Oregon

I, Deschutes Valley Water District
(Name of applicant)
of Rte. 1 Box 17 Madras, Oregon
(Mailing address)
State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, **SUBJECT TO EXISTING RIGHTS:**

If the applicant is a corporation, give date and place of incorporation July 1, 1919

1. The source of the proposed appropriation is Crooked River and Opal Springs
(Name of stream)
Deschutes River
a tributary of Deschutes River

2. The amount of water which the applicant intends to apply to beneficial use is 62.0
cubic feet per second. being 60 c.f.s. for power for pumping domestic water and 2 c.f.s. for domestic
(If water is to be used from more than one source, give quantity from each)

**3. The use to which the water is to be applied is power for pumping domestic water
(Irrigation, power, mining, manufacturing, domestic supplies, etc.)
and domestic use

4. The point of diversion is located 1215.44 ft. N and 1939.84 ft. W from the SE
(N. or S.) (E. or W.)
corner of NW 1/4 Sec. 33, T. 12 S., R. 12 E., W.M., and 389.30 ft. S. and 564 ft. E. from
(Section or subdivision)
the SE corner of SW 1/4 NE 1/4 Sec. 33 - T. 12 S., R. 12 E., W.M., Jefferson County,
Oregon.

(If preferable, give distance and bearing to section corner)

(If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the SW 1/4 NE 1/4 and NW 1/4 SE 1/4 of Sec. 33, Tp. 12S
(Give smallest legal subdivision) (N. or S.)
R. 12E, W. M., in the county of Jefferson
(E. or W.)

5. The _____ to be _____
(Main ditch, canal or pipe line) (Miles or feet)
in length, terminating in the _____ of Sec. _____, Tp. _____,
(Smallest legal subdivision) (N. or S.)
R. _____, W. M., the proposed location being shown throughout on the accompanying map.
(E. or W.)

DESCRIPTION OF WORKS

Diversion Works—

6. (a) Height of dam _____ feet, length on top _____ feet, length at bottom _____ feet; material to be used and character of construction _____
(Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate _____
(Timber, concrete, etc., number and size of openings)

(c) If water is to be pumped give general description Fairbanks Morse inverted turbine 19 stage pumping 500 gpm., @ 943' TDH powered by a Leffel #24 175 HP water turbine and 500 gpm. Fairbanks Morse inverted vertical turbine - 160 HP Leffel Turbine driven @ 943 TDH
(Size and type of engine or motor to be used, total head water is to be lifted, etc.)

*A different form of application is provided where storage works are contemplated.
**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

Canal System or Pipe Line—

7. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(b) At miles from headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(c) Length of pipe, ft.; size at intake, in.; size at ft. from intake in.; size at place of use in.; difference in elevation between intake and place of use, ft. Is grade uniform? Estimated capacity, sec. ft.

8. Location of area to be irrigated, or place of use NOT FOR IRRIGATION.....

Township North or South	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
9S	13E	14	SW $\frac{1}{4}$	
		15	SE $\frac{1}{4}$	
		16	S $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$	
		20	E $\frac{1}{2}$ SE $\frac{1}{4}$	
		21	All, except NW $\frac{1}{4}$ NW $\frac{1}{4}$	
		22	All	
		23	All	
		24	W $\frac{1}{2}$ SW $\frac{1}{4}$	
		25	W $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$	
		26	All	
		27	All	
		SEE ATTACHED SHEET		

(If more space required, attach separate sheet)

(a) Character of soil

(b) Kind of crops raised

Power or Mining Purposes—

9. (a) Total amount of power to be developed ^{211 wshy} ~~175~~ theoretical horsepower.

(b) Quantity of water to be used for power 60 sec. ft.

(c) Total fall to be utilized 31 feet.
(Head)

(d) The nature of the works by means of which the power is to be developed Leffel.....

..... Style 24 Turbine.....

(e) Such works to be located in SW $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 33.....
(Legal subdivision)

Tp. 12S....., R. 12E....., W. M. Jefferson Coutny, Oregon
(No. N. or S.) (No. E. or W.)

(f) Is water to be returned to any stream? Yes.....
(Yes or No)

(g) If so, name stream and locate point of return Crooked River.....

..... SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 33....., Tp. 12S....., R. 12E....., W. M.
(No. N. or S.) (No. E. or W.)

(h) The use to which power is to be applied is Pumping Domestic Water.....

(i) The nature of the mines to be served

Item No. 8 on Application No. _____, Cont.

Township	Range	Section	Forty-Acre Tract		
9S	13E	28	All		
		29	$E\frac{1}{2}, SW\frac{1}{4}$		
		32	All, except $W\frac{1}{2} NW\frac{1}{4}$		
		33	All		
		34	All		
		35	All		
		36	$W\frac{1}{2}$		
		10S	13E	1	$W\frac{1}{2}$
				2	All
3	All				
4	All				
5	All, except $S\frac{1}{2} SW\frac{1}{4}$				
6	$NE\frac{1}{4} NE\frac{1}{4}$				
8	$E\frac{1}{2}, SE\frac{1}{4} NW\frac{1}{4}, E\frac{1}{2} SW\frac{1}{4}$				
9	All				
10	All				
11	All				
12	All				
13	All				
14	All				
15	All				
16	All				
17	All				
18	$E\frac{1}{2} E\frac{1}{2}$				
19	$E\frac{1}{2}$				
20	All				
21	All				
22	All				
23	All				
24	All				
25	All				
26	All				
27	All				
28	All				
29	$N\frac{1}{2}, N\frac{1}{2} SE\frac{1}{4}$				
30	$NE\frac{1}{4}$				
33	$E\frac{1}{2}, E\frac{1}{2}W\frac{1}{2}, NW\frac{1}{4} NW\frac{1}{4}$				
34	All				
35	All				
36	All				

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Item No. 8 on Application No. _____, Cont.

Township	Range	Section	Forty-Acre Tract		
10S	14E	30	S $\frac{1}{2}$ SW $\frac{1}{4}$		
		31	NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$		
		36	All		
		11S	12E	1	All, except W $\frac{1}{2}$ SW $\frac{1}{4}$
		11s	13E	2	E $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, Part of W $\frac{1}{2}$ NE $\frac{1}{4}$, W $\frac{1}{2}$
				3	All
				4	All
				5	E $\frac{1}{2}$ NE $\frac{1}{4}$
				9	All
				10	All
				11	W $\frac{1}{2}$, S $\frac{1}{2}$ SE $\frac{1}{4}$
				12	E $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$
				13	SE $\frac{1}{4}$ NW $\frac{1}{4}$, S $\frac{1}{2}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$
				14	All
				15	All
				16	All
				20	E $\frac{1}{2}$ SE $\frac{1}{4}$
				21	All
				22	All
				23	All
				24	S $\frac{1}{2}$ S $\frac{1}{2}$
				25	All
				26	E $\frac{1}{2}$ E $\frac{1}{2}$
				27	All
				28	All
				29	S $\frac{1}{2}$, S $\frac{1}{2}$ N $\frac{1}{2}$, NW $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$
				30	S $\frac{1}{2}$, S $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$
				31	All
				32	All
				33	All
				34	All
11S	14E	6	All		
		7	E $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NW $\frac{1}{4}$		
		19	SW $\frac{1}{4}$ SW $\frac{1}{4}$		
		30	S $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ SW $\frac{1}{4}$, Part of NE $\frac{1}{4}$ NW $\frac{1}{4}$ Part of E $\frac{1}{2}$ SW $\frac{1}{4}$, Part of SW $\frac{1}{4}$ SE $\frac{1}{4}$, Part of W $\frac{1}{2}$ NE $\frac{1}{4}$		
12S	12E	31	NW $\frac{1}{4}$		
		1	All		
		2	E $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$		
		11	NE $\frac{1}{4}$ NE $\frac{1}{4}$		
		12	All, except SW $\frac{1}{4}$ SW $\frac{1}{4}$		
		13	All		
		14	SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$		
		23	E $\frac{1}{2}$		
24	All				

Item No. 8 on Application No. _____, Cont.

Township	Range	Section	Forty-Acre Tract		
12S	12E	25	All		
		26	$E\frac{1}{2}$, $NE\frac{1}{4}$ $SW\frac{1}{4}$, $S\frac{1}{2}$ $SW\frac{1}{4}$		
		27	$S\frac{1}{2}$ $SE\frac{1}{4}$		
		33	$E\frac{1}{2}$, source of water supply not within boundaries		
		34	All		
		35	All		
		36	All		
		12S	13E	3	All
				4	All
				5	All
6	All				
7	All				
8	All				
9	All				
10	All				
11	$NW\frac{1}{4}$, $SW\frac{1}{4}$ $NE\frac{1}{4}$, $W\frac{1}{2}$ $SW\frac{1}{4}$				
14	Portion lying Northerly of Lateral M-45, North Unit Irrigation District				
15	All				
16	All				
17	All				
18	All				
19	All				
20	All				
21	All				
22	$N\frac{1}{2}$, $SW\frac{1}{4}$, $W\frac{1}{2}$ $SE\frac{1}{4}$, $NE\frac{1}{4}$ $SE\frac{1}{4}$, Part of $SE\frac{1}{4}$ $SE\frac{1}{4}$				
27	Part of $N\frac{1}{2}$				
28	Part of $N\frac{1}{2}$, Part of $NW\frac{1}{4}$ $SW\frac{1}{4}$				
29	$N\frac{1}{2}$, $SW\frac{1}{4}$, Part of $N\frac{1}{2}$ $SE\frac{1}{4}$				
30	All				
31	$N\frac{1}{2}$ $N\frac{1}{2}$				
13S	12E	1	$W\frac{1}{2}$ $W\frac{1}{2}$ lying West of railroad right of way		
		2	$E\frac{1}{2}$, $NW\frac{1}{4}$		
		3	$N\frac{1}{2}$		
		11	$N\frac{1}{2}$, $NE\frac{1}{4}$ $SW\frac{1}{4}$, $SE\frac{1}{4}$		
		12	$NW\frac{1}{4}$ lying West of railroad right of way, $S\frac{1}{2}$ $SW\frac{1}{4}$, Part of $N\frac{1}{2}$ $SW\frac{1}{4}$		
		13	$NW\frac{1}{4}$, $NE\frac{1}{4}$ $SW\frac{1}{4}$		
		14	$NE\frac{1}{4}$ lying Northerly of Crooked River Canyon		

Municipal or Domestic Supply—

10. (a) To supply the city of Culver, Metolius and surrounding area and farms in
Jefferson County, having a present population of 5700
(Name of) 5890
 and an estimated population of 10,000 in 19 75
7500
 (b) If for domestic use state number of families to be supplied 1550

(Answer questions 11, 12, 13, and 14 in all cases)

- 11. Estimated cost of proposed works, \$ 28,000.00
30,000.00
- 12. Construction work will begin on or before July 1, 1967
- 13. Construction work will be completed on or before September 1, 1967
- 14. The water will be completely applied to the proposed use on or before September 15, 1967

DESCHUTES VALLEY WATER DISTRICT

(Signature of applicant)
W. MacLester Mgr.

Remarks: The District, at present time, is using approximately 69.5 second ft. under
existing permits for the purpose of pumping domestic water from Opal Springs with a
water turbine. This application is for an additional turbine installation for the same
purpose and at the same location.

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before January 22nd, 19 68

WITNESS my hand this 20th day of November, 19 67

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CHRIS L. WHEELER

STATE ENGINEER

By [Signature]
 ASSISTANT

PERMIT

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 EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 61.11 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Crooked River and Opal Spring

The use to which this water is to be applied is power and domestic being 60.0 cfs from Crooked River for development of 211 theoretical horsepower and 1.11 cfs from Opal Spring for domestic

If for irrigation, this appropriation shall be limited to _____ of one cubic foot per second or its equivalent for each acre irrigated

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

January 25, 1967 for Crooked River

The priority date of this permit is March 6, 1967 for Opal Spring

Actual construction work shall begin on or before February 7, 1969 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1969

Complete application of the water to the proposed use shall be made on or before October 1, 1970

WITNESS my hand this 7th day of February, 1968

Chris L. Wheeler

STATE ENGINEER

Application No. 43228
Permit No. 32674

PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 25th day of January, 1967, at 8:00 o'clock A. M.

Returned to applicant:

Approved:

February 7, 1968

Recorded in book No. _____ of _____

Permits on page 32674

CHRIS L. WHEELER
STATE ENGINEER

Drainage Basin No. 5 page 10B

Fees \$58.10
P-Land 24.00