To Appropriate the Ground Waters of the State of Oregon

City of Bend	
1, by HAROLD M. PUDDY. CITY MANAGER For the City of Be	nd II
of	•
state of	priate the
If the applicant is a corporation, give date and place of incorporation	•
Jan. 4, 1905 Bend, Ore.	
1. Give name of nearest stream to which the well, tunnel or other source of water development	opment is
situated DESCHUTES RIVER (Name of stream)	***************************************
tributary of COLUMBIA RIVER	
2. The amount of water which the applicant intends to apply to beneficial use is	
3. The use to which the water is to be applied isMUNICIPAL WATER SUPPLY FOR THE	IE
CITY OF BEND	***************************************
4. The well or other source is located ft and ft from t	he
corner of WELL #1 is 1,902 ft 8.5° 08' E, of N.W.CORNER SEC. 27 T.18 S., R 11	
(Section or subdivision) WELL #2 is 1.749 ft.S.20°29' E. of N.W.CORNER SEC. 27 T.18 S., R 11	
(If preferable, give distance and bearing to section corner) Additional wells planned W.V.N.W.V.Sec.27. & NEW Sec.28.T 18S.R 11 E.W.M. (See (If there is more than one well, each must be described. Use separate sheet if necessary)	attached
being within the of Sec. 27. & 28., Twp. 18.5, R.	11 E.,
W. M., in the county of Deschutes	
5. The Pipe Line to be 6.8	miles
in length, terminating in the	
(Smallest legal subdivision) R. R. 12.E, W. M., the proposed location being shown throughout on the accompanying map.	•
	· · · · · · · · · · · · · · · · · · ·
6. The name of the well or other works is Lava Island Well Field	***************
DESCRIPTION OF WORKS	
7. If the flow to be utilized is artesian, the works to be used for the control and conservation supply when not in use must be described.	
Not Applicable	
	havina a
8. The development will consist of	
diameter of12 inches and an estimated depth of285 feet. It is estimated that	
feet of the well will require .12.inch.Steel casing. Depth to water table is estimated (Kind)	*******
T-8783/Amind A POU/APOA	1132

Item #2 Continued

Water to be appropriated from each well follows:

		1.1	c.f.g). ********	g.p.m.
Well	#1		0.93		420
9	#2		0.98)	440
	#3		0.98)	440
	#4		0.97		435
	#5		0.970)	435
	#6		0.970)	435
	#7		0.970)	435
	#8		0.975	<u>.</u>	<u>438</u>
TOTAL	S		7.75		3,478

#4. Location of existing wells follows:

Well #1 is 1,902 ft. S. 5° 08' E. of N.W.CORNER SEC. 27 T. 18 S., R.11 E.W.M., or in the S.W.% of the N.W.% of SEC. 27, T. 18 S.R.11 E.W.M.

Well #2 is 1,749 ft. S.20°29 E.of N.W.CORNER SEC. 27 T. 18 S., R.11 E.W.M. or in the SW/4 of the NW/4 of SEC. 27, T.18 S., R.11 E.W.M.

Location of Proposed wells follows:

Well #3 is 2,010 ft S. 18° 30' E. of N.W.Corner Sec. 27, T.18 S, R.11 E.W.M., or in the S.W.% of the N.W.% of Sec. 27, T. 18 S., R. 11 E.W.M.

Well #4 if 1,155 ft S. 15° 10' E. of N.W.Corner Sec. 27, T. 18 S., R. 11 E.W.M., or in the N.W.% of the N.W.% of Sec. 27. T. 18 S., R. 11 E.W.M.

Well #5 is 1,420 ft. S. 8° 00' W. of N.W.Corner Sec. 27, T. 18 S., R.11 E.W.M., or in the S.E.% of the N.E.% of Sec. 28, T. 18 S., R. 11 E.W.M.

Well #6 is 675 ft S. 13° 35' E. of N.W.Corner Sec. 27, T. 18 S., R. 11 E.W.M., or in the N.W.% of the N.W.% of Sec. 27, T. 18 S., R. 11 E.W.M.

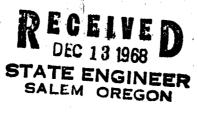
Well #7 is 435 ft S. 13° 15' W. of N.W.Corner Sec. 27, T. 18 S., R. 11 E.W.M., or in the N.E. 4 of the N.E. 4 of Sec. 28, T. 18 S., R. 11 E.W.M.

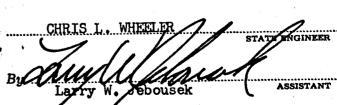
Well #8 is 990 ft S. 27° 40' W. of N.W.Corner Sec. 27, T. 18 S., R. 11 E.W.M., or in the N.E.% of the N.E.% of Sec. 28, T. 18 S., R. 11 E.W.M.

CANAL SYSTEM	OR	DIDE	T.INE

headante At ha	rdaate width on to	n (at mater line)		feet; width on bottom
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
***************************************	feet; depth of w	ater	feet; grade	feet fall per one
thousand feet.				
(b) At	mele	es from headgate	e: width on top (at wa	ter line)
	feet: width on b	oottom	feet: depth of	water feet;
•	feet fall p	· · · · · · · · · · · · · · · · · · ·	•	•
		•		in.; in size at ft.
	•			lifference in elevation between
		<u>-</u>	•	
		1 jt. 18 g	rade uniform?No	Estimated capacity,
7.475			• • • • • • • • • • • • • • • • • • •	
10. If pun	ips are to be used, g	rive size and type	± 500 gapama lin	e shaft turbine depending
on well tea	sta.	•	••••••	
Give horse	epower and type of	motor or engine	to be used± .60.H.	Pamelectric motor
depending (on well tests	,		
11	1			less than one-fourth mile from
				on each of such channels and e at the source of development
Well field	area comes with	nin 150 feet o	of the Deschutes R	iver.
	· · · · · · · · · · · · · · · · · · ·			•
Ground wate	er source is est	timated to be	130 feet below st	ream hed
Ground wate	er source is est	timated to be.	130 feet below st	ream bed.
Ground wate	er source is est	timated to be	130 feet below st	ream bed.
		······································		
12. Locati	on of area to be irr	······································	130 feet below st	end
	on of area to be irr	······································		
12. Locati	on of area to be irr Range E. or W. of Willamette Meridian	igated, or place o	of useCity of B	9nd Number Acres To Be Irrigated
12. Locati Township N. or S. Existing Co	on of area to be irr Range E. or W. of Willamette Meridian	section	Forty-acre Tract	9nd Number Acres To Be Irrigated
12. Locati Township N. or S. Existing Co	Range E or W of Willamette Meridian Lty Limits of Be	section Section Section 3 -	Forty-acre Tract Ded on attached may	P. Number Acres To Be Irrigated
12. Locati Township N. or S. Existing Co	Range E. or W. of Willamette Meridian ity Limits of Be	section Section 3 - Section 4 -	Forty-acre Tract Ded on attached may NWA NWA NV SWA, NV except	Number Acres To Be Irrigated
12. Locati Township N. or S. Existing Co	Range E or W. of Willamette Meridian ity Limits of Be	section Section 3 - Section 4 - Section 5 -	Forty-acre Tract med on attached many NWA NWA NWA NWA NWA SWA, NW except SEM except SEM SE	Number Acres To Be Irrigated
12. Locati Township N. or S. Existing Co	Range E. or W. of Willamette Meridian ity Limits of Be R.12 E., W.M.	section Section 3 - Section 4 - Section 5 - on 27 - SW/4	Forty-acre Tract Ded on attached may NWA NWA NY SWA, NY except SEM except SEM SE NWA, NWA SWA, S.12	Number Acres To Be Irrigated SEW NEW N.W. W. N.W. W. S. W. W. S. W.
12. Locati Township N. or S. Existing Co	Range E or W. of Willamette Meridian Lty Limits of Be R.12 E. W.M. S .12E, WM. Section	section Section 3 - Section 4 - Section 5 - on 27 - SW/4	Forty-acre Tract Ped on attached may NWA NWA NY SWM, NY except SEM except SEM SE NWM, NWM SWM, S.12 NEM, SWM, NWM, NEM S	Number Acres To Be Irrigated SE¼ NE¾ N.W.¼ N.W.¼, W½ S.W.¼ S.W. E¼, SW¼ SE¼,
12. Locati Township N. or S. Existing Co	Range E or W. of Willamette Meridian ity Limits of Be R.12 E., W.M. Section Section Section	section Section 3 - Section 4 - Section 5 - on 27 - SW/4 on 28 - S/2 on 28 Cont. W/2	Forty-acre Tract Ded on attached may NWA NWA NY SWM, NY except SEM except SEM SE NWM, NWM SWM, S.M NEM, SWM, NWM, NEM S S.E.M S.E.M S.E.M	Number Acres To Be Irrigated SE¼ NE¾ N.W.¼ N.W.¼, W½ S.W.¼ S.W. E¼, SW¼ SE¼,
12. Locati Township N. or S. Existing Co	Range E or W of Willamette Meridian ity Limits of Be R.12 E., W.M. Section Section	section Section 3 - Section 4 - Section 5 - on 27 - SW/4 on 28 - S/2 on 28 Cont. W/2	Forty-acre Tract Ped on attached may NWA NWA NY SWA, NY except SEA except SEA SE NWA, NWA SWA, S.Y NEA, SWA NWA, NEA S S.E.Y S.E.Y, SY S NEA, SY SWA, E.Y	Number Acres To Be Irrigated SEW NEW N.W. W. N.W. W. W. S. W. W. S. W. EW, SWW SEW, W. W. W. N. W. W. S. W. W.
12. Locati Township N. or S. Existing Co	Range E or W. of Willamette Meridian Lty Limits of Be R.12 E., W.M. Section Section Section	section Section 3 - Section 4 - Section 5 - on 27 - SW/4 on 28 - S/2 on 28 Cont. W/2 on 29 - SE/4 on 30 - S/2 S	Forty-acre Tract Ped on attached may NWA NWA NY SWA, NY except SEA except SEA SE NWA, NWA SWA, S.1/2 NEA, SWA NWA, NEA S S.E. A S.E. A, S/2 S NEA, S/2 SWA, E.1/2	Number Acres To Be Irrigated SEL NEW N.W.L. N.W.L. W. S.W.L. S.W. EM, SWM SEM, W.M., N.W.L. S.W.L. S.E.M., SWM SEM, E.M. N.W.L.
12. Locati Township N. or S. Existing Co	Range E or W. of Willamette Meridian Lty Limits of Be R.12 E., W.M. Section Section Section Section Section Section	section Section 3 - Section 4 - Section 5 - on 27 - SW/4 on 28 - S/2 on 28 Cont. W/2 on 29 - SE/4 on 30 - S/2 S	Forty-acre Tract Ped on attached may NWA NWA NY SWA, NY except SEA except SEA SE NWA, NWA SWA, S.Y NEA, SWA NWA, NEA S S.E.Y S.E.Y, SY S NEA, SY SWA, E.Y	Number Acres To Be Irrigated SEL NEW N.W.L. N.W.L. W. S.W.L. S.W. EM, SWM SEM, W.M., N.W.L. S.W.L. S.E.M., SWM SEM, E.M. N.W.L.
12. Locati Township N. or S. Existing Co	Range E or W. of Willamette Meridian ity Limits of Be R.12 E., W.M. Section	section Section 3 - Section 4 - Section 5 - On 27 - SW/4 On 28 - S/2 On 28 Cont. W/2 On 29 - SE/4 On 30 - S/2 On 31 - NE/4 On 32 - All	Forty-acre Tract Ped on attached may NWA NWA NY SWA, NY except SEA except SEA SE NWA, NWA SWA, S.Y NEA, SWA NWA, NEA S S.E.YA S.E.YA, SY2 S NEA, SY2 SEA . SE/A, E/2 NWA, NY2	Number Acres To Be Irrigated SEX NEX N.W.X. N.W.X. W/2 S.W.X. S.W. EM., SW/4 SEX, .W.X., N.W.X. S.W.X. S.E.X., SW/4 S.W.X. N.F.X. S.W.X.
12. Locati Township N. or S. Existing Co	Range E or W. of Willamette Meridian Lty Limits of Be R.12 E., W.M. Section Section Section Section Section Section	section Section 3 - Section 4 - Section 5 - On 27 - SW/4 On 28 - S/2 On 28 Cont. W/2 On 29 - SE/4 On 30 - S/2 On 31 - NE/4 On 32 - All	Forty-acre Tract Ped on attached may NWA NWA NY SWA, NY except SEA except SEA SE NWA, NWA SWA, S.1/2 NEA, SWA NWA, NEA S S.E. A S.E. A, S/2 S NEA, S/2 SWA, E.1/2	Number Acres To Be Irrigated SEX NEX N.W.X. N.W.X. W/2 S.W.X. S.W. EM., SW/4 SEX, .W.X., N.W.X. S.W.X. S.E.X., SW/4 S.W.X. N.F.X. S.W.X.
Township N. or S. Existing C: T. 18, S., I	Range E. or W. of Willamette Meridian ity Limits of Be R.12 E., W.M. Section	section Section 3 - Section 4 - Section 5 - On 27 - SW/4 On 28 - S/2 On 28 Cont. W/2 On 29 - SE/4 On 30 - S/2 S On 31 - NE/4 On 32 - All On 33 - All ection 25 -	Forty-acre Tract Ped on attached may NWA NWA NY SWA, NY except SEA except SEA SE NWA, NWA SWA, S.12 NEA, SWA NWA, NEA S S.E.14 S.E.14, SY2 S NEA, SY2 SEA SEA SEA SEA A SEA SWA, E12 NEA SWA, SY2 SEA SEA SEA SEA A SEA SWA, SEA A SEA SWA, SEA A SEA SWA, SEA A	Number Acres To Be Irrigated SEW NEW SEW NEW N.W. W. W. W. W. S. W. W. S. W. EW, SWW SEW, W. W. T. N. W. W. S. W. W. S. E. W. SWW SEW, E. 1/2 N. W. W. N. E. W. S. W. W. A except NEW SEW d except NEW SEW
T. 17 S., R	Range E. or W. of Willamette Meridian ity Limits of Be R.12 E., W.M. Section Sect	section Section 3 - Section 4 - Section 5 - On 27 - SW/4 On 28 - S/2 On 28 Cont. W/2 On 29 - SE/4 On 30 - S/2 S On 31 - NE/4 On 32 - All On 33 - All ection 25 - (If more space require	Forty-acre Tract Ded on attached may NWA NWA NY2 SWM4, NY2 except SEM4 except SEM4 SE NWM4, NWM4 SWM4, S. 1/2 NEM4, SWM4 NWM4, NEM4 S S.E. 1/4 S.E. 1/4, S/2 S NEM4, S/2 SEM4, E. 1/2 SWM4, S/2 SEM4, E. 1/2 EXCEPT EV2 NWM4, NV2 except EV2 NEM4 an SEM4 SWM4, SEM4 except, attach separate sheet)	Number Acres To Be Irrigated SEW NEW SEW NEW N.W. W. W. W. W. S. W. W. S. W. EW, SWW SEW, W. W. T. N. W. W. S. W. W. S. E. W. SWW SEW, E. 1/2 N. W. W. N. E. W. S. W. W. A except NEW SEW d except NEW SEW
T. 17 S., T. 17 S.,	Range E. or W. of Willamette Meridian ity Limits of Be R.12 E. W.M. Section Sect	section Section 3 - Section 4 - Section 5 - On 27 - SW/4 On 28 - S/2 On 28 Cont. W/2 On 29 - SE/4 On 30 - S/2 S On 31 - NE/4 On 32 - All On 33 - All ection 25 - (If more space require	Forty-acre Tract Ded on attached may NWA NWA NY2 SWM4, NY2 except SEM4 except SEM4 SE NWM4, NWM4 SWM4, S. 1/2 NEM4, SWM4 NWM4, NEM4 S S.E. 1/4 S.E. 1/4, S/2 S NEM4, S/2 SEM4, E. 1/2 SWM4, S/2 SEM4, E. 1/2 EXCEPT EV2 NWM4, NV2 except EV2 NEM4 an SEM4 SWM4, SEM4 except, attach separate sheet)	Number Acres To Be Irrigated SEX NEX N.W.X. W.Y. S.W.X. S.W. EX, SWX SEX, W.Y. N.W.Y. S.W.X. S.E.X. SWX SEX, N.F.X. S.W.X. d except NEX SEX pt SWX SWX SEX
T. 17 S., T. 17 S.,	Range E. or W. of Willamette Meridian ity Limits of Be R.12 E. W.M. Section Sect	section Section 3 - Section 5 - Section 27 - SW/4 Section 28 - SW/4 Section 28 - SW/4 Section 29 - SE/4 Section 30 - SW/4 Section 30 - SW/4 Section 30 - All Section 25 - Section 25 - Section 31 - All Section 25 - Section 32 - All	Forty-acre Tract Ped on attached may NWA NWA NY SWA, NY except SEA except SEA SE NWA, NWA SWA, S.1/2 NEA, SWA NWA, NEA S S.E. A S.E. A, S/2 S NEA, S/2 SWA, E.1/2 SWA, S/2 SEA SEA E/2 NWA, NY except E/2 NEA an SEA SWA, SEA except d, attach separate sheet)	Number Acres To Be Irrigated SEX NEX N.W.X. W.Y. S.W.X. S.W. EX, SWX SEX, W.Y. N.W.Y. S.W.X. S.E.X. SWX SEX, N.F.X. S.W.X. d except NEX SEX pt SWX SWX SEX

l December		ounty. havina a 1	present population o	f13,200		
and the second		19,000				
na an estimatea	-	Mt.	` !	<u>.</u>		
ا نائم		¥	16, 17 AND 18 IN AI	L CASES		- -
14. Estima	ted cost of prop	sed works, \$27	0,440.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
15. Constr	uction work will	begin on or befo	re 1970		n de la companya de l	,
16. Constr	uction work will	l be completed on	or before1975	-440	er ned Trad	
17. The wo	iter will be com	pletely applied to	the proposed use or	ı or beforel	976	***************************************
ation for permi	t, permit, certif	ficate or adjudic	nental to an existing ated right to approp	priate water, n	rade or he	eld by the
pplicant 17.13c	fsWaterrig	nts held from.	Tumalo Irrigatio	n District	***************************************	****************
	***************************************	••••••	7/	es m. A	elle	
Remarks:	The Lava I	sland Well Fig	Jarob City Ma eld may include e	(Signature of application)	ls withi	n the
			permit is reques			
		T. 18 S., R.				,
	•••••	/ ·	•	T G+		
,			ity of Bend by R.			
December 1,	1967. A 16	inch steel ca	asing is installe	d to 196 fee	t.with.g	rout sea
from surfac	e to 39 feet	. A 12 inch	steel casing is i	installed in	sidethe	16inch
casing from	surface to	310 feet with	perforated slots	3below228:	feetSt	atic
water level	is 168 feet	A 48 hour	pumpingtestindi	icated a cap	acityof	
420 gpm wit	h 60 feet of	drawdown.				
Well I	Vo.2 has an 8	-inch steel c	asing installed i	to 140 feet	with an c	pen
			l_is_138_feet			
			•			
			test pumping			11101110
<u>availabili</u>	ty of funds					
STATE OF OR	EGON,					
County of Mo	irion, ss.					
This is to	certify that I h	ave examined th	ie foregoing applicat	ion, together w	ith the acc	ompanyin
maps and data,	and return the s	ame forCo	rrections and Com	pletion		
			The second of th	\\.		
In order t	o retain its priò	ritŷ, this applica	tion must be returne	d to the State	Engineer, v	with correc
tions on or befor	reJanuar	y27th	, 1969.		e William E	TOP MENT
			Sugar Section 1	i .		
•	1.	*		•		
		0741	November			0 68





PERMIT

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 smited to the amount of water which can be applied to beneficial use or source of appropriation, or its equivalent in case of rotation with other water users, from sight wells being 0.935 cfs from well No. 1, 0.98 cfs from well No. 2, 0.98 cfs from well No. 3, 0.97 cfs from well No. 4, 0.97 cfs from well No. 5, 0.97 cfs from well No. 6, 0.97 cfs from well No. 7 and 0.975 cfs from well No. 8 The use to which this water is to be applied is .municipal 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 further limited to a diversion of not to exceed acre feet per acre for each acre irrigated during the irrigation season of each year; and shall be subject to such reasonable rotation system as may be ordered by the proper state officer. The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water. The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times. The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn. Actual construction work shall begin on or beforeJuly 17, 1970...... and shall Extended to October 198 thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1970...... Complete application of the water to the proposed use shall be made on or before October 1, 19.71... Extended to October 1987 WITNESS my hand this ... 17th ... day of Extended to October 1, 1992 ATE ENGINEER

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Application No. G-4677 Permit No. G-G 4435

PERMIT

TO APPROPRIATE THE GROUND WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon,

office of the State Engineer at Salem, Com the Ath. day of November 1968, at 1.00. o'clock. P. M.

Returned to applicant:

Approved:
July 17, 1969

July 17, 1969
corded in book No.
ad Water Permits on page G

Ground

CHRIS L. WHEELER

Frainage Basin No. 5

#390