# Application for Permanent Water Right Transfer



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# Part 1 of 5 - Minimum Requirements Checklist

This transfer application will be returned if Parts 1 through 5 and all required attachments are not completed and included. For questions, please call (503) 986-0900, and ask for Transfer Section.

AUG 3 0 2021 Check all items included with this application. (N/A = Not Applicable)RD

$\boxtimes$	Part 1 – Completed Minimum Requiremen	ts Checklist.	
$\boxtimes$	Part 2 – Completed Transfer Application N	lap Checklist.	OWF
	Part 3 – Application Fee, payable by check completed Fee Worksheet, page 3. Try the <a href="http://apps.wrd.state.or.us/apps/misc/wr">http://apps.wrd.state.or.us/apps/misc/wr</a> Customer Service at (503) 986-0801. Check	new online fee calculator at:  d fee calculator. If you have questions, ca	
$\boxtimes$	Part 4 – Completed Applicant Information	and Signature.	
	Part 5 – Information about Water Rights to be transferred? 2 List them here: Cert. 85 Please include a separate Part 5 for ea		
	Attachments:		
$\boxtimes$	Completed Transfer Application Map. (Att	achment B)	
$\boxtimes$	Completed Evidence of Use Affidavit and s	upporting documentation. (Attachment C	)
□ ⊠ N/A	Affidavit(s) of Consent from Landowner(s) right is on.)	(if the applicant does not own the land th	e water
□ ⊠ N/A	Supplemental Form D – For water rights so district. Complete when the transfer appli		tion
⊠ □ N/A	Oregon Water Resources Department's La signature (or signed land use form receipt water is to be diverted, conveyed, and/or conveyed, and/or used only on federal lan place of use only, b) no structural changes the use is located within an irrigation distr	stub) from each local land use authority in used. Not required if water is to be diverted ds or if <b>all</b> of the following apply: a) a char , c) the use of water is for irrigation only, a	n which ed, nge in and d)
⊠ N/A	Water Well Report/Well Log for changes in point(s) of appropriation. (Attachment E)	n point(s) of appropriation (well(s)) or add	itional
□ N/A	Geologist Report for a change from a surfa- point of appropriation (well), if the propos source and more than 1000' upstream or 6 690-380-2130 for requirements and applic	ed well is more than 500' from the surface downstream from the point of diversion. S	e water
	(For S	aff Use Only)	
	WE ARE RETURNING YOUR APPLICATION FOR T  Application fee not enclosed/insufficient Land Use Form not enclosed or incomplete Additional signature(s) required Other/Explanation	HE FOLLOWING REASON(S):  Map not included or incomplete  Evidence of Use Form not enclosed or incomp  Part is incomplete	lete
	Staff: 503-986-0	Date:/	

# Part 2 of 5 – Transfer Application Map

# Your transfer application will be returned if any of the map requirements listed below are not metal

Please be sure that the transfer application map you submit includes all the required items and matches the existing water right map. Check all boxes that apply. Certified Water Right Examiner (CWRE) Stamp and Original Signature. For a list of CWREs, see http://apps.wrd.state.or.us/apps/wr/cwre\_license\_view/. CWRE stamp and signature are not required for substitutions. N/A If more than three water rights are involved, separate maps are needed for each water right. X Permanent quality printed with dark ink on good quality paper. The size of the map can be  $8\% \times 11$  inches,  $8\% \times 14$  inches,  $11 \times 17$  inches, or up to  $30 \times 30$ inches. For 30 x 30 inch maps, one extra copy is required. A north arrow, a legend, and scale. X The scale of the map must be: 1 inch = 400 feet, 1 inch = 1,320 feet, the scale of the Final Proof/Claim of Beneficial Use Map (the map used when the permit was certificated), the scale of the county assessor map if the scale is not smaller than 1 inch = 1,320 feet, or a scale that has been pre-approved by the Department.  $\boxtimes$ Township, Range, Section, ¼ ¼, DLC, Government Lot, and other recognized public land survey lines. X Tax lot boundaries (property lines) are required. Tax lot numbers are recommended. Major physical features including rivers and creeks showing direction of flow, lakes and X reservoirs, roads, and railroads.  $\bowtie$ Major water delivery system features from the point(s) of diversion/appropriation such as main pipelines, canals, and ditches. X Existing place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the water right is being changed, a separate hachuring is needed for lands left unchanged. N/A Proposed place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. X Existing point(s) of diversion or well(s) with distance and bearing or coordinates from a recognized survey corner. This information can be found in your water right certificate or permit. M N/A If you are proposing a change in point(s) of diversion or well(s), show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example - 42°32'15.5") or degrees-decimal with five or more digits after the decimal (example – 42.53764°).

#### Part 3 of 5 – Fee Worksheet

	FEE WORKSHEET for PERMANENT TRANSFER (except Substitution)		
1	Base Fee (includes one type of change to one water right for up to 1 cfs)	1	\$1,360
N.	Types of change proposed:		
	☐ Place of Use ☐ Character of Use ☐ Point of Diversion/Appropriation		
	Number of above boxes checked = $\frac{1(2a)}{}$		
	Subtract 1 from the number in line $2a = 0$ (2b) If only one change, this will be 0		
2	Multiply line 2b by \$1090 and enter » » » » » » » » » » » » » » » » » » »	2	0
	Number of water rights included in transfer 2 (3a)		
_	Subtract 1 from the number in 3a above: <u>1 (3b)</u> If only one water right this will be 0		4540
3	Multiply line 3b by \$610 and enter » » » » » » » » » » » » » » » » » » »	3	\$610
	Do you propose to add or change a well, or change from a surface water POD to a well?		
	No: enter 0 Yes: enter \$480 for the 1 <sup>st</sup> well to be added or changed \$480 (4a)		
	Do you propose to add or change additional wells?		
	No: enter 0  Yes: multiply the number of additional wells by \$410 \$820 (4b)		
4	Add line 4a to line 4b and enter » » » » » » » » » » » » » » »	4	\$1,300
	Do you propose to change the place of use or character of use?		
	No: enter 0 on line 5		
	Yes: enter the cfs for the portions of the rights to be transferred (see below*): (5a)		
	Subtract 1.0 from the number in 5a above:(5b)  If 5b is 0 or less, enter 0 on line 5 » » » » » » » » » » » » » » » »		
	If 5b is greater than 0, round up to the nearest whole number: (5c) and multiply		
5	5c by \$410, then enter on line 5 » » » » » » » » » » » » » » » » » »	5	0
6	Add entries on lines 1 through 5 above » » » » » » » » » Subtotal:	6	
	Is this transfer:		
	necessary to complete a project funded by the Oregon Watershed Enhancement Board		
	(OWEB) under ORS 541.932?		
	endorsed in writing by ODFW as a change that will result in a net benefit to fish and wildlife habitat?		
	If one or more boxes is checked, multiply line 6 by 0.5 and enter on line 7 »		
7	If no box is applicable, enter 0 on line 7 » » » » » » » » » » » » » » » » » »	7	0
8	Subtract line 7 from line 6 » » » » » » » » » » » » » » » » » Transfer Fee:	8	\$3,270

\*Example for Line 5a calculation to transfer 45.0 acres of Primary Certificate 12345 (total 1.25 cfs for 100 acres) and 45.0 acres of Supplemental Certificate 87654 (1/80 cfs per acre) on the same land:

1. For irrigation calculate cfs for each water right involved as follows:

a. Divide total authorized cfs by total acres in the water right (for C12345, 1.25 cfs  $\div$ 100 ac); then multiply by the number of acres to be transferred to get the transfer cfs (x 45 ac= 0.56 cfs).

b. If the water right certificate does not list total cfs, but identifies the allowable use as 1/40 or 1/80 of a cfs per acre; multiply number of acres proposed for change by either 0.025 (1/40) or 0.0125 (1/80). (For C87654, 45.0 ac x 0.0125 cfs/ac = 0.56 cfs)

2. Add cfs for the portions of water rights on all the land included in the transfer; however do not count cfs for supplemental rights on acreage for which you have already calculated the cfs fee for the primary right on the same land. The fee should be assessed only once for each "on the ground" acre included in the transfer. (In this example, blank 5a would be only 0.56 cfs, since both rights serve the same 45.0 acres. Blank 5b would be 0 and Line 5 would then also become 0).

1	Base Fee (includes change to one well)	1	\$840.00
	Number of wells included in substitution(2a)		
	Subtract 1 from the number in 2a above: (2b) If only one well this will be 0		
2	Multiply line 2b by \$410 and enter » » » » » » » » » » » » » »	2	
3	Add entries on lines 1 through 2 above » » » » Fee for Substitution:	3	

Permanent Transfer Application Form 1—3 age 3 1 f 13

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# Part 4 of 5 – Applicant Information and Signature

AUG 3 0 2021

Applicant Information				
APPLICANT/BUSINESS NAME			PHONE NO.	ADDITIONAL CONTACT NO.
City of Bend, ATTN: Patrick G	riffiths		541-317-3008	
62975 Boyd Acres Road				FAX NO.
CITY CITY	STATE	ZIP	E-MAIL	
Bend	OR	97701	pgriffiths@bendon	regon.gov
BY PROVIDING AN E-MAIL ADDRES	S, CONSEN	T IS GIVEN TO RECE		
ELECTRONICALLY. COPIES OF THE F				
Agent Information – The age	nt is auth	orized to repres	ent the applicant in al	matters relating to this application.
AGENT/BUSINESS NAME			PHONE NO.	ADDITIONAL CONTACT NO.
GSI Water Solutions, Inc. ATT	N: Owen l	McMurtrey	541-740-5619	
ADDRESS	240			FAX NO.
1600 SW Western Boulevard, S		T 710	T 5 4440	
Corvallis	OR STATE	97333	E-MAIL  OMcMurtrey@gsi	iws com
BY PROVIDING AN E-MAIL ADDRES				
ELECTRONICALLY. COPIES OF THE F				
Explain in your own words wh				
The Applicant is proposing to			A COLUMN TO A COLU	
Certificates 85412 and 85559	as additio	onal authorized	points of appropriation	on.
If you need additional space, con-	tinue on a	separate piece of	paper and attach to the	application as "Attachment 1".
		Check	One Box	
By signing this application, I u	understand	that, upon receip	ot of the draft preliminar	y determination and prior to
Department approval of the	transfer, I	will be required to	o provide landownership	information and evidence that I am
authorized to pursue the train				
I affirm the applicant is a mu			540.510(3)(b) and that th	ne right is in the
name of the municipality or a			_ d d :c o	anulaina bu
I affirm the applicant is an encondemnation the property				
have supporting documental		ie water right pro	posed for transfer is app	raitemant and
That's supporting descarrent				
By my signature below, I confirm	that I und	derstand:		
Prior to Department approval of	f the transfe	er application, I may	be required to submit pay	ment to the Department for publication of
				ed, once per week for two consecutive
weeks. If more than one qualify Bulletin.	ing newspap	per is available, I su	ggest publishing the notice	in the following newspaper: The Bend
	may only be	e made in resnonse	to the Department's Draft	Preliminary Determination (DPD). The
				sues identified by the Department in the
DPD, or to withdraw the applica				
<ul> <li>Failure to complete an approved 690-380-6010).</li> </ul>	d change in	place of use and/or	change in character of use	, will result in loss of the water right (OAR
I (we) affirm-that the informa	tion-conta	ained in this app	olication is true and ac	ccurate.
Calle				/ /
1241		THE RESIDENCE OF THE PARTY OF T	iths, Water Resources M	1anager 8/19/21
Applicant signature		Print Name (and Ti	ttle if applicable)	Date
1				
Applicant signature		Print Name (and Ti	tle if applicable)	Date
Is the applicant the sole owner	r of the la	nd on which the	water right, or portion	n thereof, proposed for transfer is
-				and is proposing to make
changes to muni	N-37		-	

Check the following boxes	that apply	<i>':</i>				
The applicant is res		7.5	etion of	change(s). Not	ices and correspondence	should
				(7)	he proposed change(s) aft nould be sent to this lando	
The state of the s					le for completion of changlandowner and the applica	T 10 0
At this time, are the lands The Applicant is a municip		nsfer app	lication	in the process	of being sold? Yes 1	No <u>N/A -</u>
					ceiving landowner information assignment will have to be file	
If a property sells, the certifunless a sale agreement or https://www.oregon.gov/o	other docun	nent states	otherwis	e. For more inform	nation see:	
RECEIVING LANDOWNER NAME N/A				PHONE NO.	ADDITIONAL CONTACT NO.	
ADDRESS		-			FAX NO.	
CITY	STATE	ZIP		E-MAIL		
Check here if any of the an irrigation or other we possible that the City is pro	ater distri	ct. ( <b>Tip</b> : <b>C</b>	Complet	e and attach S	will be located within or supplemental Form D.) N/A are not located within the	A – The
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Check here if any of the an irrigation or other was POAs that the City is proarea of any irrigation dis	ater distri	ct. ( <b>Tip</b> : <b>C</b>	Complet tificates	e and attach S	upplemental Form D.) N/A	A – The
Check here if any of the an irrigation or other we POAs that the City is programme area of any irrigation district NAME N/A	posing to a tricts.	e rights su	ADDRESS STATE	e and attach S 85412 and 8555 under a water s	upplemental Form D.) N/A 9 are not located within the	A – The e service
Check here if any of the an irrigation or other water of any irrigation disserted in the contract of the contract for stored water for contract for contrac	posing to a tricts.	e rights su	ADDRESS STATE	e and attach S 85412 and 8555 under a water s	upplemental Form D.) N/A 9 are not located within the	A – The e service
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Check here if any of the an irrigation or other we POAs that the City is proarea of any irrigation dissipation dispipation dis	any of the er with a f	e rights sufederal ag	ADDRESS STATE  ADDRESS STATE  ADDRESS STATE  ADDRESS STATE	under a water so other entity.	zip  zip  zip  zip  zip  zip  county, city, municipal	A – The eservice
Check here if any of the an irrigation or other we POAs that the City is proarea of any irrigation disserted in the N/A CITY  Check here if water for contract for stored wate ENTITY NAME N/A CITY  To meet State Land Use Cocorporation, or tribal government of Bend City of Bend	any of the er with a f	e rights sufederal ag	ADDRESS STATE  ADDRESS STATE  ADDRESS STATE  ADDRESS ADDRESS ADDRESS ADDRESS	under a water so other entity.	zip  zip  zip  zip  zip  zip  county, city, municipal	A – The e service
Check here if any of the an irrigation or other we POAs that the City is proarea of any irrigation disserted in the N/A CITY  Check here if water for contract for stored wate ENTITY NAME N/A CITY  To meet State Land Use Cocorporation, or tribal government of Bend City of Bend CITY	any of the er with a f	e rights sufederal ag	ADDRESS STATE  ADDRESS STATE  ADDRESS STATE  ADDRESS ADDRESS ADDRESS ADDRESS	under a water so other entity.	zip  zip  zip  zip  zip  zip  county, city, municipal	A – The eservice
Check here if any of the an irrigation or other water an irrigation or other water area of any irrigation disserted in the city is produced area of any irrigation disserted in the city is produced area of any irrigation disserted irrigation	any of the er with a f	e rights sufederal ag	ADDRESS STATE  ADDRESS STATE  ADDRESS STATE  ADDRESS ADDRESS 710 NW STATE  ADDRESS	under a water so other entity.	zip  zip  zip  zip  zip  zip  zip  zip	A – The e service

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# Part 5 of 5 - Water Right Information

# **CERTIFICATE #85412**

# Description of Water Delivery System System capacity: 12.03 cubic feet per second (cfs) (7.57 cfs under this right) OR gallons per minute (gpm)

Describe the current water delivery system or the system that was in place at some time within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is currently pumped from 4 wells using line shaft turbine pumps and conveyed to the City of Bend's Service Area through a system of closed pipes.

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) (Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L)	T	wp	R	ng	Sec	1/4	1/4	Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
River Well 1	□ Authorized     □ Proposed	DESC 5577	18	s	12	E	5	sw	NW	1100	South 58 degrees 04 minutes 01 second East, 3007.14 feet from the NW Corner of the NE ¼ of the NE ¼ , Section 6
River Well 2	Authorized Proposed	DESC 5578	18	s	12	E	5	sw	NW	0900	1420 feet South and 950 feet East from the NW Corner, Section 5
Copperstone Well	□ Authorized     □ Proposed	DESC 1653	17	s	11	E	25	sw	NE	1300	North 5 degrees 55 minutes 14 seconds East, 1209.8 feet from the SW Corner of the NE ¼, Section 25
Pilot Butte Well 1		DESC 8499	17	s	12	E	33	NE	NE	0102	200 feet North and 400 feet East from SW Corner of the NE ¼ of the NE ¼ , Section 33
Bear Creek Well 1	☐ Authorized ☐ Proposed	DESC 51943	17	s	12	E	33	SE	SE	0102	North 40 degrees 59 minutes 46 seconds West, 1074.4 feet from SE Corner, Section 33
Outback Well 4	☐ Authorized ☐ Proposed	DESC 54252	17	s	11	E	34	sw	SE	0800	North 77 degrees 01 minute 13 seconds West, 2592.7 feet from SE Corner, Section 34
Outback Well 7	☐ Authorized ☐ Proposed	DESC 57760	18	s	11	E	3	NE	NW	0800	South 85 degrees 37 minutes 0.5 seconds West, 327.9 feet from the NE Corner of the NW Quarter, Section 3

Check a	II type(s) of change(s) proposed below (ch	ange	"CODES" are provided in parentheses):				
	Place of Use (POU)		Supplemental Use to Primary Use (S to P)				
	Character of Use (USE)		Point of Appropriation/Well (POA)				
	Point of Diversion (POD)	$\boxtimes$	Additional Point of Appropriation (APOA)				
	Additional Point of Diversion (APOD)		Substitution (SUB)				
	Surface Water POD to Ground Water POA (SW/GW)		Government Action POD (GOV)				
Will all of the proposed changes affect the entire water right?							
⊠ Yes	Complete only the Proposed ("to" or "on" lands) section of Table 2 on the next page. Use the "CODES" listed above to describe the proposed changes.						
No	Complete all of Table 2 to describe the po	ortion	of the water right to be changed.				

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Please use and attach additional pages of Table 2 as needed. See page 6 for instructions.

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

# Table 2. Description of Changes to Water Right Certificate # 85412

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

ES	Priority Date		1901	1901	10/13/1971	
PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.	POD(s)/ POA(s) to be used (from Table 1)		POD #5	POD #6	Within the Service Area of the City of Bend MU Pilot Butte Well 1, Routhack Well 1, Bear Creek Well 1, Outback Well 2, Outback Well 3, Outback Well 7	
or "o TER P	New Type of USE				Ω	
the "to" or opear AFTE are made.	Acres		10.0	5.0	Bend	
appe are	Gvt Lot or DLC		-		ty of	ES:
OSEI	Tax		200	200	the Ci	TOTAL ACRES:
PROF g as it v	*		NW NW 500 1	2 SW NW 500	Area of	TOTA
listin	Sec		г	2	rvice	
The	Rng		9 E	3 E	the Se	
	Twp		2 5	2 5 9	ithin	
a			SEMBITICAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PER	2	3	
Proposed Changes (see	"CODES" from previous page)	EXAMPLE	POU/POD		APOA	
	Marian Salara Carata Salara Salara		1901			
AUTHORIZED (the "from" or "off" lands)  The listing that appears on the certificate BEFORE PROPOSED CHANGES  List only that part or portion of the water right that will be changed.	POD(s) or POA(s) (name Priority or number Date from Table 1)		POD #1 POD #2			
AUTHORIZED (the "from" or "off" lands) appears on the certificate BEFORE PROP t part or portion of the water right that will I	Type of USE listed on Certificate		Irrigation			
from" cificate la water	Got Tax Lot Lot or Acres DLC		15.0			
(the 'e cert	Gvt Lot or DLC					RES:
SIZED on th portio	Fax Lot		100			TOTAL ACRES:
Dears art or			Ž.			TOT,
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e listi List	Rng		9 E			
上	Тмр		2 S			

Additional remarks:

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# Certificate # 85412

# For Place of Use or Character of Use Changes

with	here other water right certificates, water use permits or ground water registrations associated the "from" or the "to" lands?  Yes No N/A – Certificate 85412 is for municipal use so ring" does not apply.
If YES	, list the certificate, water use permit, or ground water registration numbers:
a prir to a g	pant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to mary right proposed for transfer must be included in the transfer or be cancelled. Any change ground water registration must be filed separately in a ground water registration modification cation.
For Sub	ostitution (ground water supplemental irrigation will be substituted for surface water primary irrigation) N/A
	nd water supplemental Permit or Certificate #; ce water primary Certificate #
For a c	hange from Supplemental Irrigation Use to Primary Irrigation Use N/A
Ident	ify the primary certificate to be cancelled. Certificate #
For a c	hange in point(s) of appropriation (well(s)) or additional point(s) of appropriation:
	Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map. (see Attachment E)  Tip: You may search for well logs on the Department's web page at: <a href="http://apps.wrd.state.or.us/apps/gw/well">http://apps.wrd.state.or.us/apps/gw/well</a> log/Default.aspx
AND,	OR OR
	Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For proposed wells not yet constructed or built, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.
	onstruction of Point(s) of Appropriation (s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on

## Tab

Anv the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

POA Name or	already built? (es or No)	well: OWRD Well ID Tag No. L	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	or screened intervals (in feet)	level of completed well (in feet)	aquifer (sand, gravel, basalt, etc.)	rate (cfs gpm). If I than full r of water r
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# Part 5 of 5 - Water Right Information

## **CERTIFICATE #85559**

**OWRD** 

Description of	Water	Delivery	System

System capacity:	5.24 cubic feet per second (cfs) (4.16 cfs under this right) OR
	gallons per minute (gpm)

Describe the current water delivery system or the system that was in place at some time within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is currently pumped from 3 wells using line shaft turbine pumps and conveyed to the place of use through a system of closed pipes.

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)

(Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L)	Τ	wp	R	ng	Sec	14	1/4	Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
Rock Bluff 1	Authorized Proposed	DESC 9180	18	s	12	E	7	NW	SE	0100	543 feet South and 1000 feet East from C1/4 Corner, Section 7
Rock Bluff 2	Authorized Proposed	DESC 1738	18	s	12	E	7	NW	SE	0100	543 feet South and 779 feet East from C1/4 Corner, Section 7
Rock Bluff 3	Authorized Proposed	DESC 9997	18	s	12	E	7	NW	SE	0100	539 feet South and 1234 feet East from C1/4 Corner, Section 7
Bear Creek Well 1	☐ Authorized ☐ Proposed	DESC 51943	17	s	12	E	33	SE	SE	0102	North 40 degrees 59 minutes 46 seconds West, 1074.4 feet from SE Corner, Section 33
Outback Well 4	☐ Authorized ☐ Proposed	DESC 54252	17	s	11	E	34	sw	SE	0800	North 77 degrees 1 minute 13 seconds West, 2592.7 feet from SE Corner, Section 34
Outback Well 7	☐ Authorized ☐ Proposed	DESC 57760	18	s	11	E	3	NE	NW	0800	South 85 degrees 37 minutes 0.5 seconds West, 327.9 feet NE Corner of the NW Quarter, Section 3

I type(s) of change(s) proposed below (ch	ange	"CODES" are provided in parentheses):
Place of Use (POU)		Supplemental Use to Primary Use (S to P)
Character of Use (USE)		Point of Appropriation/Well (POA)
Point of Diversion (POD)	$\boxtimes$	Additional Point of Appropriation (APOA)
Additional Point of Diversion (APOD)		Substitution (SUB)
	Place of Use (POU) Character of Use (USE) Point of Diversion (POD)	Character of Use (USE)  Point of Diversion (POD)

	Surface Water POD to Ground Water POA (SW/GW)	Government Action POD (GOV)
Will all	of the proposed changes affect the entire	water right?
⊠ Yes	Complete only the Proposed ("to" or "on" "CODES" listed above to describe the pro	' lands) section of Table 2 on the next page. Use the posed changes.
☐ No	Complete all of Table 2 to describe the po	ortion of the water right to be changed.

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Please use and attach additional pages of Table 2 as needed. See page 6 for instructions.

Contact the Department at 503-986-0900 and ask for Transfer Staff. Do you have questions about how to fill-out the tables?

# Table 2. Description of Changes to Water Right Certificate # 85559

List the change proposed for the acreage in each % %. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

ES	Priority Date		1901	1901	6/30/1989	
PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.	POD(s)/ POA(s) to be used (from Table 1)		POD #5	9# QOd	Rock Bluff 1, Rock Bluff 2, Rock Bluff 3, Bear Creek Well 1, Outback Well 4,	
or "or TER P	New Type of USE					
the "to" or opear AFTE are made.	Acres		10.0	5.0	9 ation	
appe are	Gyt Lot or DLC		-		85559 Applica	ES:
OSEE	Tax		200	200	icate and A ent B.	ACRE
PROP g as it w	*		1 NW NW 500 1	2 SW NW 500	See POU listing in Certificate 85559 provided in Attachment A –and Application MU Maps in Attachment B.	TOTAL ACRES:
isting	Sec		-	2	sting tachm	
The	Rng		E	ш	POU li lin At Map	
			6 S	2 5 9	See I	
	Twp		2 S	2	bro	
Proposed Changes (see	"CODES" from previous page)	EXAMPLE	POU/POD		APOA	
MGES	DESIGNATION OF THE PERSONS		1901			
AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.	POD(s) or POA(s) (name Priority or number Date from Table 1)		POD #1 POD #2			
AUTHORIZED (the "from" or "off" lands) appears on the certificate BEFORE PROP t part or portion of the water right that will l	Type of USE listed on Certificate		Irrigation		el .	
from" (rificate	Got Tax Lot Lot or Acres DLC		15.0			
(the 'e cert	Gvt Lot or DLC					RES:
RIZED s on th	Tax Lot		100			TOTAL ACRES:
AUTHO appears	%		NE NW			TO.
g that	Š		15 N			
listing List o	Rng S		E			
The	, R		6 S			
2	Тмр		2 5			

Additional remarks:

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Revised 11/6/2019

# For Place of Use or Character of Use Changes Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands? Yes No N/A - Certificate 85559 is for municipal use so "layering" does not apply. If YES, list the certificate, water use permit, or ground water registration numbers: Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application. For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation) N/A Ground water supplemental Permit or Certificate # ; Surface water primary Certificate # \_\_\_\_\_. For a change from Supplemental Irrigation Use to Primary Irrigation Use N/A Identify the primary certificate to be cancelled. Certificate # For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation: Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map. **Tip**: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well\_log/Default.aspx (see Attachment E) AND/OR Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For proposed wells not yet constructed or built, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well

## Table 3. Construction of Point(s) of Appropriation

complete Table 3.

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

driller, geologist, or certified water right examiner to assist with assembling the information necessary to

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well: OWRD Well ID Tag No. L	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less than full rate of water right

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Attachment A
Certificates 85412 & 85559
Application for Permanent Water Right Transfer – City of Bend

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

#### STATE OF OREGON

#### COUNTY OF DESCHUTES

#### CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF BEND 575 NE 15<sup>TH</sup> STREET BEND, OREGON 97701

confirms the right to use the waters of RIVER WELL #1, RIVER WELL #2, COPPERSTONE WELL, AND PILOT BUTTE WELL #1 in the DESCHUTES BASIN for MUNICIPAL USE.

This right was perfected under Permit G-4946. The date of priority is OCTOBER 13, 1971. This right is limited to 7.57 CUBIC FEET PER SECOND, if available at the original wells: SW ¼ NW ¼, SECTION 5, T 18 S, R 12 E, W.M.; WELL 1 - SOUTH 58 DEGREES 04 MINUTES 01 SECOND EAST, 3007.14 FEET; WELL 2 – SOUTH 55 DEGREES 54 MINUTES 56 SECONDS EAST, 3419.16 FEET: BOTH FROM THE NW CORNER OF THE NE¼ NE¼, SECTION 6, or its equivalent in case of rotation, measured at the well(s).

The wells are located as follows:

RIVER WELL #1 – SW ¼ NW ¼, SECTION 5, T 18 S, R 12 E, W.M.; SOUTH 58 DEGREES 04 MINUTES 01 SECOND EAST, 3007.14 FEET FROM THE NW CORNER OF THE NE ¼ OF THE NE ¼, SECTION 6.

RIVER WELL #2 – SW ¼ NW ¼, SECTION 5, T 18 S, R 12 E, W.M.; 1420 FEET SOUTH AND 950 FEET EAST FROM THE NW CORNER, SECTION 5.

COPPERSTONE WELL – SW ¼ NE ¼, SECTION 25, T 17 S, R 11 E, W.M.; NORTH 5 DEGREES 55 MINUTES 14 SECONDS EAST, 1209.8 FEET FROM THE SW CORNER OF THE NE ¼, SECTION 25.

PILOT BUTTE WELL #1 – NE ¼ NE ¼, SECTION 33, T 17 S, R 12 E, W.M.; 200 FEET NORTH AND 400 FEET EAST FROM THE SW CORNER OF THE NE ¼ OF THE NE ¼, SECTION 33.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use to which this right is appurtenant is as follows:

#### WITHIN THE SERVICE AREA OF THE CITY OF BEND

The wells shall be maintained in accordance with the General Standards for the Construction and maintenance of Water Wells in Oregon.

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T-7009-cf-68458.gec

Page 1 of 2

Certificate Number 85412

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The quantity of water diverted at the new points of appropriation (well), together with the quantity diverted at the old points of appropriation, shall not exceed the quantity of water lawfully from the original points of appropriation.

When required by the Department, the water user shall install an in-line flow meter or other suitable device for measuring and recording the quantity of water used. The type and plan of the measuring device must be approved by the Department prior to beginning construction and shall be installed under the general supervision of the Department.

If withdrawal of water from the new well located in the SW ¼ NE ¼, Section 25, T 17 S, R 11 E, W.M., causes substantial interference with the well on water right Permit G-11106, and this interference would not have occurred had the same amount of water been withdrawn from the original well, use of water from the new well shall be discontinued or reduced to mitigate the interference.

This certificate is issued to confirm A CHANGE IN POINTS OF APPROPRIATION approved by an order of the Water Resources Director entered November 28, 1995, at Special Order Volume 49, Page 433, and together with Certificate 68702, supercedes Certificate 68458, State Record of Water Right Certificates.

The right to use water for the above purpose is restricted to beneficial use on the lands or place of use described.

Issued

MAR 1 2 2009

Phillip C Ward, Director Water Resources Department

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#### STATE OF OREGON

AUG 3 0 2021

#### COUNTY OF DESCHUTES

# OWRD

#### CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF BEND 62975 BOYD ACRES ROAD BEND, OR 97701

confirms the right to use the waters of THREE WELLS in the DESCHUTES RIVER Basin for MUNICIPAL USE.

This right was perfected under Permit G-11379. The date of priority is JUNE 30, 1989. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 4.16 CUBIC FEET PER SECOND or its equivalent in case of rotation, measured at the wells.

The wells are located as follows:

Well	Twp	Rng	Mer	Sec	Q-Q	Measured Distances
ROCK BLUFF 1	18 S	12 E	WM	7	NW SE	543 FEET SOUTH AND 1000 FEET EAST FROM C1/4 CORNER, SECTION 7
ROCK BLUFF 2	18 S	12 E	WM	7	NW SE	543 FEET SOUTH AND 779 FEET EAST FROM C1/4 CORNER, SECTION 7
ROCK BLUFF 3	18 S	12 E	WM	7	NW SE	539 FEET SOUTH AND 1234 FEET EAST FROM C1/4 CORNER, SECTION 7

A description of the place of use to which this right is appurtenant is as follows:

Twp	Rng	Mer	Sec	Q-Q
17 S	11 E	WM	23	E½ SW¼
17 S	11 E	WM	24	NE¼
17 S	11 E	WM	24	SENW
17 S	11 E	WM	24	E½ SW1/4
17 S	11 E	WM	24	SE1/4
17 S	11 E	WM	25	NE1/4
17 S	11 E	WM	25	NE NW
17 S	11 E	WM	25	S1/2 NW1/4
17 S	11 E	WM	25	S½ -
17 S	11-E-	WM	26 _	N'/2 NE'/4
17 S	11 E	WM	26	SE NE

#### NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080, you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate at any time before it has issued, and after the time has expired for the completion of the appropriation under the permit, or within three months after issuance of the certificate.

# OWRD

Twp	Rng	Mer	Sec	Q-Q
17 S	11 E	WM	26	NE NW
17 S	11 E	WM	26	S½ NW¼
17 S	11 E	WM	26	NW SW
17 S	11 E	WM	26	NE SE
17 S	11 E	WM	35	SE1/4
17 S	11 E	WM	36	ALL
17 S	12 E	WM .	9	SE NE
17 S	12 E	WM	9	S1/2
17 S	12 E	WM	14	W½ NE
17 S	12 E	WM	14	W1/2
17 S	12 E	WM	15	ALL
17 S	12 E	WM	16	ALL
17 S	12 E	WM	17	E½ NE¼
17 S	12 E	WM	17	NW NE
17 S	12 E	WM	17	NE SW
17 S	12 E	WM	17	S1/2 SW1/4
17 S	12 E	WM	17	SE1/4
17 S	12 E	WM	18	SE SE
17 S	12 E	WM	19	ALL
17 S	12 E	WM	20	ALL
17 S	12 E	WM	21	ALL
17 S	12 E	WM	22	ALL
17 S	12 E	WM	23	W1/2 NE1/4
17 S	12 E	WM	23	W1/2
17 S	12 E	WM	23	W1/2 SE1/4
17 S	12 E	WM	26	W1/2 NE1/4
17 S	12 E	WM	26	W1/2
17 S	12 E	WM	26	W1/2 SE1/4
17 S	12 E	WM	27	ALL
17 S	12 E	WM	28	ALL
17 S	12 E	WM	29	ALL
17 S	12 E	WM	30	ALL
17 S	12 E	WM	31	ALL
17 S	12 E	WM	32	ALL
17 S	12 E	WM	33	ALL
17 S	12 E	WM	34	ALL
17 S	12 E	WM	35	W½ NE¼
17 S	12 E	WM	35	W1/2
17 S	12 E	WM	35	NW SE
18 S	11 E	WM	1	ALL
18 S	11 E	WM	2	SE SE
18 S	11 E	WM	11	E½ NE¼
18 S	11 E	WM	11	E½ SE¼
18 S	11 E	WM	12	ALL
18 S	11 E	WM	13	N½ NE¼
18 S	11 E	WM	13	SW NE
18 S	11 E	WM	13	NW¼
			13	SW1/4
185	11 E	WM		N½ NW¼
18 S	12 E	WM WM	2	SW NW
18 S				

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Twp	Rng	Mer	Sec	Q-Q
18 S	12 E	WM	3	ALL
18 S	12 E	WM	4	ALL
18 S	12 E	WM	5	ALL
18 S	12 E	WM	6	ALL
18 S	12 E	WM	7	N1/2 NE1/4
18 S	12 E	WM	7	SW NE
18 S	12 E	WM	7	NW1/4
18 S	12 E	WM	7	SW1/4
18 S	12 E	WM	8	NE1/4
18 S	12 E	WM	8	N1/2 NW1/4
18 S	12 E	WM	8	N1/2 SE1/4
18 S	12 E	WM	8	SE SE
18 S	12 E	WM	9	ALL
18 S	12 E	WM	10	ALL
18 S	12 E	WM	15	W1/2 NE1/4
18 S	12 E	WM	15	NW1/4
18 S	12 E	WM	15	N1/2 SW1/4
18 S	12 E	WM	16	ALL
18 S	12 E	WM	17	S1/2 NE1/4
18 S	12 E	WM	17	SE NW
18 S	12 E	WM	17	E1/2 SW1/4
18 S	12 E	WM	17	SE1/4
18 S	12 E	WM	20	NE1/4
18 S	12 E	WM	20	N½ NW¼
18 S	12 E	WM	20	SE NW
18 S	12 E	WM	21	W1/2 NW1/4

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this right, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The City shall report the impact of water use under this right on water levels within the aquifer that provides water to the water user wells in accordance with the approved plan on file with the Department. If a well listed on this right displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the city shall discontinue use of, or reduce the rate or volume of withdrawal from, the wells. Such action shall be taken until the water level recovers to above the 25-foot decline level or until the Department determines, based on the city's or Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The city shall in no instance allow excessive decline to occur within the aquifer as a result of use under this right.

The wells shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the wells at all times. The water user shall install and maintain a weir, meter, or other suitable measuring device and shall keep and submit to the Department on an annual basis, a complete record of the amount of ground water withdrawn.

The Director may require water level or pump test results every ten years.

Failure to comply with any of the provisions of this right may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the right.

This right is for beneficial use of water without waste. The water user is advised that new regulations may require use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

Water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3).

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described.

This certificate is issued for a partial perfection of Permit G-11379 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered as Special Order Volume 78, Page 2, on June 5, 2009.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

Issued

JUN 0 5 2009

Phillip C. Ward, Director

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Attachment B

Application Maps
Application for Permanent Water Right Transfer – City of Bend

AUG 3 0 2021

From:

STARNES Patrick K \* WRD

To: Cc: Zach Pike-Urlacher Kim Grigsby

Subject:

Re: Question Regarding MU Transfer within Irrigation District Boundary and Map Scale Waiver Request

Date:

Friday, June 18, 2021 4:58:13 PM

Hi Zach,

The Department will grant a map scale waiver for the attached transfer application maps. Please include a copy of this e-mail when you submit the transfer application.

If you have any questions, let me know!

Sincerely,

Kelly Starnes

Kelly Starnes, Transfer Program Analyst Oregon Water Resources Department 725 Summer St NE Suite A Salem OR 97301-1271

Cellphone: 503-979-3511 Fax: 503-986-0903

E-mail: patrick.k.starnes@oregon.gov

Please Note: Under Oregon Law, messages to and from this e-mail address may be available to the public.

From: Zach Pike-Urlacher <zpikeurlacher@gsiws.com>

Sent: Wednesday, June 16, 2021 4:16:17 PM

To: STARNES Patrick K \* WRD <Patrick.K.Starnes@oregon.gov>

**Cc:** Kim Grigsby <kgrigsby@gsiws.com> **Subject:** Map Scale Waiver Request

Hi Kelly,

We would like to request a map scale waiver for the POU map we plan to include with the transfer (see attached). We also plan to include two POA maps that use a standard mapping scale (also attached).

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Please let me know if you have any questions.

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Thanks you,

Zach

## Zach Pike-Urlacher

Water Resources Analyst
direct: 541.753.0933 | mobile: 360.739.2303
1600 SW Western Boulevard, Suite 240, Corvallis, OR 97333
GSI Water Solutions, Inc. | www.gsiws.com
pronouns: he, him

**Please note:** GSI is open for business, although most of us are working remotely. I'm available by phone or email, as always.

AUG 3 0 2021

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Attachment C
Evidence of Use Affidavit
Application for Permanent Water Right Transfer – City of Bend

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# Application for Water Right **Transfer**

AUG 3 0 2021





# **Evidence of Use Affidavit**

Please print legibly or type. Be as specific as possible. Attach additional pages if you need more spacing. Supporting documentation must be attached.

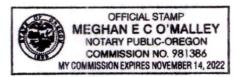
State o	of Oregon			)	0.0						
Count	y of Deschutes	s)		)	SS						
I, PAT	RICK GRIFFITHS	, in my	capaci	ty as	City	of Ben	d Water	Resources 1	Manager,		
mailin	g address 629	75 BOYD	ACRES	ROAD,	BENI	o, OR, 9	7701				
teleph	one number (	<u>541)317-</u>	<u>3008</u> , b	eing	first (	duly sw	orn dep	ose and say:	:		
1. M one):	y knowledge o	of the ex			atus o			nt is based o			
	test that:										
	Water was u Certificate #	CERTII	FICATE	s 8541	12 & 3	<u>85559</u> ;	OR	•		in the last five yea	ars:
	Certificate #	Towns		Ran		Mer	Sec	1/4 1/4	Gov't Lot or DLC	Acres (if applicable)	
											1
								_			
OR											
	Confirming	Certific	ate # _	h	as be	een issu	ed with	in the past f	ive years; Ol	R	
	Part or all of the water right was leased instream at some time within the last five years. The instream lease number is: (Note: If the entire right proposed for transfer was not leased, additional evidence of use is needed for the portion <u>not</u> leased instream.); <b>OR</b>										
$\boxtimes$	The water rig								at a presump	otion of forfeiture	for
	Water has be									for more than	
					(ce	ontinues	on rever	se side)			

3. The water right was used for: (e.g., crops, pasture, etc.): MUNICIPAL WATER SUPPLY

4. I understand that if I do not attach one or more of the documents shown in the table below to support the above statements, my application will be considered incomplete.

8/20/21

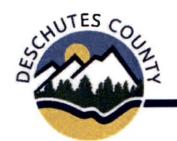
Signed and sworn to (or affirmed) before me this 20 day of August, 20 21.



My Commission Expires: 11/14/2022

Supporting Documents	Examples
Copy of a water right certificate that has been issued within the last five years. (not a remaining right certificate)	Copy of confirming water right certificate that shows issue date
Copies of receipts from sales of irrigated crops or for expenditures related to use of water	Power usage records for pumps associated with irrigation use     Fertilizer or seed bills related to irrigated crops
	Farmers Co-op sales receipt
Records such as FSA crop reports, irrigation district records, NRCS farm management plan, or records of other water suppliers	<ul> <li>District assessment records for water delivered</li> <li>Crop reports submitted under a federal loan agreement</li> <li>Beneficial use reports from district</li> <li>IRS Farm Usage Deduction Report</li> <li>Agricultural Stabilization Plan</li> <li>CREP Report</li> </ul>
Aerial photos containing sufficient detail to establish location and date of photograph	Multiple photos can be submitted to resolve different areas of a water right.  If the photograph does not print with a "date stamp" or without the source being identified, the date of the photograph and source should be added.  Sources for aerial photos: OSU – www.oregonexplorer.info/imagery OWRD – www.wrd.state.or.us Google Earth – earth.google.com TerraServer – www.terraserver.com
Approved Lease establishing beneficial use within the last 5 years	Copy of instream lease or lease number
The water right is not subject to forfeiture and documentation that a presumption of forfeiture for non-use would be rebutted under ORS 540.610(2).	Certificates 85412 and 85559 are water rights held by a city for reasonable and ordinary municipal purposes. See certificates in Attachment A.

AUG 3 0 2021



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# COMMUNITY DEVELOPMENT

## CERTIFICATE OF CERTIFIED MAILING

FILE NUMBER: 247-21-000743-PS

**DOCUMENT/S MAILED:** LUCS Signoff

LOOKUP AREA: N/A

MAP/TAX LOT NUMBER: 1711340000800

I certify that on the 19th day of August, 2021, the attached notice(s)/report(s), was/were mailed by first class mail, postage prepaid, to the person(s) and address(es) set forth below/on the attached list.

Dated this 19th day of August, 2021.

# COMMUNITY DEVELOPMENT DEPARTMENT

By: \_\_\_\_\_Chenelle Hale\_\_\_\_\_

Recipient: City of Bend 62975 Boyd Acres Rd Bend, OR 97701	Mailed Certified
Total mailing: 1	

13811

# AUG 3 0 2021 OWRD

Bear Creek Well 1	DESC 51943
Copperstone Well	DESC 1653
Outback Well 4	DESC 54252
Outback Well 7	DESC 57760
Pilot Butte Well 1	DESC 8499
River Well 1	DESC 5577
River Well 2	DESC 5578
Rock Bluff Well 1	DESC 9108
Rock Bluff Well 2	DESC 1738
Rock Bluff Well 3	DESC 9997

Attachment E Well Logs

Application for Permanent Water Right Transfer - City of Bend

# STATE OF OREGON

WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL I.D. # L. 22878 START CARD # 104116

Instructions for c	ompleting this rep	ort are on the last pag	e of this form.					
1) OWNER:		Well Number	BC #1	(9) LOCATION OF W				
Name City	f Rend			County Deschu			gitude	
ddress PO Bo	x 431			Township 175			E or W.	WM.
City Bend		State OR	Zip 97709	Section 33	-		1/4	
2) TYPE OF WO	ORK			Tax Lot 100 Lo			bdivision	
New Well De	epening Alterati	on (repair/recondition)	Abandonment	Street Address of Well	(or nearest address)			
3) DRILL MET	HOD:			City Publ		omplex		
X Rotary Air	Rotary Mud	Cable Auger		(10) STATIC WATER	w land surface.	D	atc 9-16	5-98
4) PROPOSED	USE:			Artesian pressure	ib. per squ	are inch. D	ate	
	Community	Industrial   Irrig	ation	(11) WATER BEARI	NG ZONES:			
		Livestock Othe	x					
(5) BORE HOL	CONSTRUCT	ION:		Depth at which water was	first found	660		
Special Construction	n approval Yes	No Depth of Comple	oted Well 970ft.					
Explosives used	Yes No Type	Amor		From	To	Estimated	Flow Rate	SWL
HOLE		SEAL		660	970	628		-
Diameter From	To Material	From To	Sacks or pounds					+-
30 0	9 cemen		35					+-
	700 cemen	t 0 150 8	yds			-		+
	650	700	Ryds					
15" 7009	70			(12) WELL LOG:				
How was seal place	d: Method	□A □B ⊠C	. D DE	Ground	Elevation			
Other						T.	T. 1	cne
Backfill placed from	150 ft 465	_	concrete	Materia	N	From	То	SWL
Gravel placed from		ft. Size of g	ravel				1	
(6) CASING/LI				1	RECEI	VHD	+	
Diameter			Welded Threaded			ALL	1	
Casing: 24	0 9	3753 🗆	<u>D</u> □		ALIO O A	000/	1	_
16	+2 700.				AUG 3 0	2021	++	
-	<del>                                      </del>						+	
					OWE		1	
Liner: 12"	690 970	3.75x 🗆	<b>G</b>	SEE	CAAP		+-+	
					n		1	
Final location of sh	00(8)			ATTACHE			1	
(7) PERFORAT				SHEETS		PEOP		
Perforations	_	ift Factor		1		RECE	VED	
Screens	Type	Mater Tele/pipe						
From To	size Number	Diameter size	Casing Liner			OCT OF	1	40
700 970	<del>1/8x 5 6</del> 4	0012"		1		API 0 9	1998	
	<del>                                     </del>				WAT	D Dree		
	<del> </del>				IIAII	R RESOURCE	ES DEPT	
	<del>                                     </del>		- 13 13			WHE	HON	
(8) WEII TEST	IS: Minimum ta	sting time is 1 hour		Date started 6-	. 98 Co	mpleted 9	-16-9	18
(O) WELLIES		me sense in I mont		(unbonded) Water Well				
Pump	Bailer	☐ Air	Flowing Artesian	I certify that the work	I performed on the o	onstruction, alte	ration, or aba	ndonmer
Yield gal/min	Drawdown	Drill stem at	Time	of this well is in complia Materials used and infor	nce with Oregon water	or supply well or	onstruction st	andards.
			1 hr.	and belief.			,	
1160	25	690	22.5			WWC Nu	mber	
				Signed			Date	
Temperature of wa	ter 52	Depth Artesian Flow Fo	ound	(bonded) Water Well C	onstructor Certifica	tion:		
Was a water analys		es By whom		I accept responsibility	for the construction,	alteration, or ab	andonment v	vork
		le for intended use?	Too little	performed on this well d performed during this tin	uring the construction ne is in compliance w	ith Oregon water	ar supply well	UIL
		Colored Other_		construction standards.	This report is true to t	he best of my ki	nowledge and	belief.
Depth of strata:				1 K K	1 the	WWC No	ımber	XC
				Signed Desert	11 100		_Date _[C	1-1.
Depth of strata:			DEPARTMENT S	Signed Description State of the	OCTOR THIR	D COPY-CUS	_Date	2-1-

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Sand & Dirt         0         8           Grey Basalt med hrd         8         27           Basalt grey & Brn pourous         27         65           Basalt grey & Brn softner         65         71           Basalt Harder         71         122           Basalt Rough         122         124           Cinders conglomerate & red         124         207           Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         486           Cinders soft red         466         474           Basalt grey & lavender         474         533           Basalt grey & lavender         583         585           Basalt prey & lavender         583         585           Basalt grey & lavender         583         595	MATERIAL	FROM	ТО
Grey Basalt med hrd         8         27           Basalt grey & Brn pourous         27         65           Basalt grey & Brn softner         65         71           Basalt Harder         71         122           Basalt Rough         122         124           Cinders conglomerate & red         124         207           Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey & lavender         474         533           Basalt grey & lavender         474         533           Basalt softer brkw         583         595           Basalt grey & lavender fractured         595         623           Basalt red & grey soft         623         625	Sand & Dirt	0	8
Basalt grey & Bm pourous         27         65           Basalt grey & Bm softner         65         71           Basalt Harder         71         122           Basalt Rough         122         124           Cinders conglomerate & red         124         207           Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt Javender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt & grey kard         474         533           Basalt grey & lavender         474         533           Basalt harder         560         583           Basalt harder         560         583           Basalt harder fractured         595         623           Basalt prey kard         625         630 <t< td=""><td></td><td>8</td><td>27</td></t<>		8	27
Basalt grey & Bm softner         65         71           Basalt Harder         71         122           Basalt Rough         122         124           Cinders conglomerate & red         124         207           Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt Javender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey coarse grain         533         560           Basalt prey coarse grain         533         560           Basalt harder         560         583           Basalt prey bard         623         623           Basalt grey hard         623         625 <t< td=""><td></td><td>27</td><td>65</td></t<>		27	65
Basalt Harder         71         122           Basalt Rough         122         124           Cinders conglomerate & red         124         207           Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt Javender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey hard         466         474           Basalt grey coarse grain         533         560           Basalt grey coarse grain         583         595           Basalt prey coarse grain         583         595           Basalt prey forthw         583         595           Basalt prey forthw         583         595           Basalt grey hard         625         630           Volcanics grey         630         640		65	71
Basalt Rough         122         124           Cinders conglomerate & red         124         207           Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey & lavender         474         533           Basalt grey & lavender         474         533           Basalt grey & lavender         560         583           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt prey hard         625         630		71	122
Cinders conglomerate & red         124         207           Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey coarse grain         533         560           Basalt grey coarse grain         533         560           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt grey hard         625         623           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660           Basalt grey hard         700         714           Ba			
Basalt Grey         207         230           Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey hard         430         466           Cinders soft red         466         474           Basalt grey coarse grain         533         560           Basalt grey coarse grain         533         560           Basalt harder         560         583           Basalt prey coarse grain         583         595           Basalt harder fractured         595         623           Basalt prey fard         583         595           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660			
Cinders Red         230         242           Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey & lavender         474         533           Basalt grey & lavender         580         583           Basalt grey coarse grain         533         560           Basalt grey coarse grain         533         560           Basalt harder         560         583           Basalt harder fractured         595         623           Basalt grey hard         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660           Basalt grey & brown         685         690           Basalt grey hard         700         714			
Basalt Grey Hard         242         281           Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         486         474           Basalt grey hard         486         474           Basalt grey & lavender         474         533           Basalt grey coarse grain         533         580           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt grey hard         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660           Basalt grey hard         690         700           Basalt grey hard         700         714           Basalt prey hard         700         714           Basalt lavender & grey         771         775			
Cinders Red         281         283           Basalt Grey Med         283         325           Basalt lavender & grey med         325         342           Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey hard         474         533           Basalt grey coarse grain         533         560           Basalt prey coarse grain         533         560           Basalt harder         560         583           Basalt prey coarse grain         533         560           Basalt prey coarse grain         533         560           Basalt prey coarse grain         533         560           Basalt prey coarse grain         583         595           Basalt prey coarse grain         533         560           Basalt prey coarse grain         533         560           Basalt prey coarse grain         583         595           Basalt prey hard         623         625           Basalt prey hard         623         625           Basalt grey hard         700			
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Soft red cinders         342         395           Lavender black with cinders         395         430           Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey & lavender         474         533           Basalt grey coarse grain         533         560           Basalt harder         580         583           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt prey soft         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660           Basalt grey hard         690         700           Basalt grey hard         700         714           Basalt prey hard         700         714           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt prey hard         775         792           Cinders red soft         797         800           Cinders red soft         797         800           C			
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Basalt & grey hard         430         466           Cinders soft red         466         474           Basalt grey & lavender         474         533           Basalt grey coarse grain         533         560           Basalt harder         560         583           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt red & grey soft         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         680           Basalt grey & brown         685         690           Basalt grey hard         700         714           Basalt grey hard         700         714           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           Basalt grey hard         775         792           Cinders red soft         797         800           Cinders red soft         800         809           Basalt grey hard         809         836           La			
Cinders soft red         466         474           Basalt grey & lavender         474         533           Basalt grey coarse grain         533         560           Basalt harder         560         583           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt ned & grey soft         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         680           Basalt grey & brown         685         690           Basalt grey & brown         685         690           Basalt grey hard         700         714           Basalt grey hard         700         714           Basalt lavender & grey         714         723           Cinders red         723         731           Basalt lavender & grey         770         775           Basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey hard         809         836			
Basalt grey & lavender         474         533           Basalt grey coarse grain         533         560           Basalt harder         560         583           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt red & grey soft         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         680           Basalt grey         680         685           Basalt grey hard         690         700           Basalt grey hard         700         714           Basalt lavender & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey hard         809         836           Lava cinders med lavender & grey         836         845			
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Basalt harder         580         583           Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt red & grey soft         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660           Basalt grey         660         685           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900			
Basalt softer brkw         583         595           Basalt harder fractured         595         623           Basalt red & grey soft         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         680           Basalt grey         660         685           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933			
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Basalt red & grey soft         623         625           Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660           Basalt grey         660         685           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950 <td></td> <td></td> <td></td>			
Basalt grey hard         625         630           Volcanics grey         630         640           Cinders red         640         660           Basalt grey         660         685           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Volcanics grey         630         640           Cinders red         640         660           Basalt grey         660         685           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Cinders red         640         660           Basalt grey         660         685           Basalt grey & brown         685         690           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Basalt grey         660         685           Basalt grey & brown         685         690           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Basalt grey & brown         685         690           Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Basalt grey med         690         700           Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Basalt grey hard         700         714           Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Basalt red & grey         714         723           Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Cinders red         723         731           Basalt lavender & grey         731         756           Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950		The second secon	
Basalt lavender & grey       731       756         Red cinders       756       770         Basalt blk & grey       770       775         basalt grey hard       775       792         Cinders red soft       797       800         Cinders very soft       800       809         Basalt grey Hard       809       836         Lava cinders med lavender & grey       836       845         Basalt grey hard       845       892         Basalt med black & pourous w/no strks       892       900         Lava brown & red soft       900       921         Basalt & grey hard fractures       921       931         Basalt med       931       933         Lava red & brown some sand stone       933       950			
Red cinders         756         770           Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Basalt blk & grey         770         775           basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950			
basalt grey hard         775         792           Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Cinders red soft         797         800           Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Cinders very soft         800         809           Basalt grey Hard         809         836           Lava cinders med lavender & grey         836         845           Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Basalt grey Hard       809       836         Lava cinders med lavender & grey       836       845         Basalt grey hard       845       892         Basalt med black & pourous w/no strks       892       900         Lava brown & red soft       900       921         Basalt & grey hard fractures       921       931         Basalt med       931       933         Lava red & brown some sand stone       933       950			
Lava cinders med lavender & grey       836       845         Basalt grey hard       845       892         Basalt med black & pourous w/no strks       892       900         Lava brown & red soft       900       921         Basalt & grey hard fractures       921       931         Basalt med       931       933         Lava red & brown some sand stone       933       950			
Basalt grey hard         845         892           Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950			THE RESERVE AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE
Basalt med black & pourous w/no strks         892         900           Lava brown & red soft         900         921           Basalt & grey hard fractures         921         931           Basalt med         931         933           Lava red & brown some sand stone         933         950			
Lava brown & red soft       900       921         Basalt & grey hard fractures       921       931         Basalt med       931       933         Lava red & brown some sand stone       933       950			
Basalt & grey hard fractures 921 931 Basalt med 931 933 Lava red & brown some sand stone 933 950			
Basalt med 931 933 Lava red & brown some sand stone 933 950			
Lava red & brown some sand stone 933 950			
	Basalt-lava grey & red pourous	950	970

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OWRD

# RECEIVED

OCT 0 5 1998 WATER RESOURCES DEPT SALEM, OREGON

## STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)



MAR 18 1993

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APR 6 1998	41581	

(START CARD) #\_ VEZ TER KE (9) LOCATION OF WELL by legal description: (1) OWNER: Well Number: SALE Deschutestinude PREGON Longitude Brooks Resources Corporation Address P.O. Box 6119 17 S Nor S. Range\_ E or W, WM. Township Zip 97708 City Bend NE-NW NU Lot 11 \_\_\_\_ Block \_\_ 25 (2) TYPE OF WORK: Subdivision 100 Street Address of Well (or nearest address) N/A Undeveloped X New Well ☐ Abandon Deepen Recondition (3) DRILL METHOD Rotary Air Rotary Mud X Cable (10) STATIC WATER LEVEL: Other \_ 510 ft, below land surface. Date \_12-15-9 (4) PROPOSED USE: Artesian pressure \_\_\_\_\_\_ lb. per square inch. Date --X Domestic ☐ Irrigation (11) WATER BEARING ZONES: ☐ Thermal ☐ Injection Other Depth at which water was first found . (5) BORE HOLE CONSTRUCTION: From Estimated Flow Rate SWL Special Construction approval Yes No. · Depth of Completed Well \_ X.0 528 50 bailer 700 510 Type \_\_\_ \_ Amount 11 HOLE Amount Diameter From Material sacks or pounds 100 Cement 8 yds ceme (12) WELL LOG: grout 20 100 700 Material SWL 508 528 16 SACKS 100 760 Cement 20 Soil broken rock 8 How was seal placed: Method A B C Lava rock bed 8 48 Other \_ Clay red 48 53 Backfill placed from \_\_\_ \_\_ft. to \_\_\_\_\_ft, Material Weathered rock green red layers 53 85 Gravel placed from \_\_ \_ft. to \_\_\_\_ Size of gravel Lava rock red 85 112 (6) CASING/LINER: Basalt gray 112 185 Welded Threaded Diameter From To Gauge Steel Plastic Basalt broken grav 185 200 100 | 375 X X Basalt gray 200 215 Lava brown 215 310 Cinders red 310 330 Lava rock red 330 370 700 .37 X IX Cinders red 370 405 Lava rock red black lavers 405 Final location of shoe(s). Basalt gray 448 455 Lava rock cinders layers (7) PERFORATIONS/SCREENS: 480 455 Lava rock black Machine cut 480 528 X Perforations Method Basalt broken lavers Screens 528 540 510 Material Lava rock red pourous layers 540 610 Slot Tele/pipe From Number Diameter Lava rock with cinder layers size Casing Liner 610 650 540 700 7488 X Lava rock broken 650  $\Box$ Packer set at 528 cemented from 528 Date started 8-31-92 Completed (unbonded) Water Well Constructor Certification: (8) WELL TESTS: Minimum testing time is 1 hour I certify that the work I performed on the construction, alteration, or Flowing Pump abandonment of this well is in compliance with Oregon well construction Artesian ☐ Bailer ☐ Air standards. Materials used and information reported above are true to my best Yield gal/min Drawdown Drill stem at knowledge and belief. Time WWC Number 1 hr. Signed / C 950 8 hrs (bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and Temperature of water 56 Depth Artesian Flow Found Yes By whom . Was a water analysis done? Did any strata contain water not suitable for intended use? 

Too little belief. ☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other \_ WWC Number Depth of strata: Signed

#### STATE OF OREGON

# WATER SUPPLY WELL REPORT (26 required by ORS 537.765)

instructions for completing this report are on the last page of this form

DESC 54252 NOV 1 5 2001

WELL ID # L52412

(START CARD) # 136877

(1) OWNER:	Well Number: Outback#4	(9) LOCATION OF W	ELL by legal de			-
Name City of Bend		Descri			Longitud W. of V	
Address P.O. Box 431 City Bend	State OR Zip 97701	Section 34	SW	1/4 SE		1/4
DAIN	OK + O(O)	Tax lot 6202R2 Lot	Block	Subdiv		
(2) TYPE OF WORK:		Street Address of Well (c Bend, OR 97701		5900 Skyline	r Rd.,	
X New Well Deepening	Alteration (repair/recondition) Abandonment					
(3) DRILL METHOD:		(10) STATIC WATER	v land surface.	Da	te 5/2/	01
X Rotary Air Rotary Mud	X Cable Auger	Artesian pressure	lb. per sq	uare inch. Da		V1.
Other		(11) WATER BEARIN	IG ZONES:			
(4) PROPOSED USE:		Depth at which water wa				
Domestic X Community	Industrial Irrigation		<u> </u>			
Thermal Injection	Livestock Other	From	To	Estimated Flow	Rate	SWL
(5) BORE HOLE CONSTRU	CTION:	519 612	612 768	800-900 2000+		478 478
Special Construction approval Yes	XNo Depth of Completed Well 850 ft.		850	5000+		478
	/pe Amount					
HOLE Diameter From To M	SEAL Amount aterial From To sacks or pounds	(12) WELL LOG:				
20in 0 672 Cemen			Ground ele	evation		
15in 672 790 Cement	t 0 205 220 sacks	M	aterial	From	То	SWL
12in 790 850		D				
		Brown Powder Soil Broken Brown Rubb	ile	3	3 17	
		Red Cinders & Brok		17	19	
How was seal placed: Method [ A	B XC D E	Smooth Hard Gray I	Basait	19	125	
Backfill placed from 205 ft. to 5:	34 ft. Material Bentonite	Brown Tufted Ash Pumice & Tan Sand	stone	125 172	172 285	
Gravel placed from ft. to	ft. Size of gravel	Gray Sandstone	Storie	285	306	
(6) CASING/LINER:		Brown Sandstone o	r Tufted Ash	306	358	
Diameter From To	Gauge Steel Plastic Welded Threaded	Cemented Gravels Red Cinders & Brok	en Rasalt	358 431	431 438	
Casing: 16in +1.5 672	.375 X X	Hard Gray Basalt so	The second secon	438	449	
		Hard Gray Basalt		449	468	+
		Tan Pumice Hard Gray Basalt		468 479	479 519	+
Liner: 12in 658 798	.375 X	Red Cinders & Brok	en Basalt WB	519	538	+
10in 788 848	.365 X	Brown Conglomerat		538	581	478
Final location of shoe(s)		Tan & Gray Sandsto	ne WB	581 612	612	478
(7) PERFORATIONS/SCREE		Hard Gray Basalt		639	639 646	478 478
	Factory Saw	Red & Black Cinders	& Slab Lava	646		
Screens Type	Material Tele/pipe	WB Hard Gray Basalt		659	659	478
From To size Number	Diameter size Casing Liner	Red Cinders WB		735	735 768	478 478
572 672 3/16 4800	16in pipe X	Continued on next p	age			
658 798 3/16 6720 788 848 3/16 2600	12in pipe X	Date started 12/5/01	Comp	eleted 5/2/01		
		(unbonded) Water Well	Constructor Certi	fication:		
		I certify that the work I perf				
(8) WELL TESTS: Minimum	testing time is 1 hour	of this well is in compliance w Materials used and information				
X Pump Bailer	Air Flowing Artesian	belief.	***************************************			
Viold collects Describers	Dell store at Time	Simod		WWC Numb	er	
Yield gal/min Drawdown	Drill stem at Time	Signed		Date		
1400 2.5	520 24 hr.	(bonded) Water Well Co	netructor Codific	ation:		
	1	l accept responsibility for the			ent work	•
	1	performed on this well during	the construction date:	s reported above.	All work	
Temperature of Water 51 Was a water analysis done? X Yes	Depth Artesian Flow found	performed during this time is construction spandards. This		The state of the s		oliof
Did any strata contain water not suitab	By whom City of Bend le for intended use? Too little	K O A	- O. L	WWC Numb		
Salty C Muddle Odor	Colored Other	Signed 1000	Buch	Quate 11/7/0		
Depth of strata:		Robert Buckne				
ODICINA ENGINEER COV. MA'	TER RESOURCES DEPARTMENT SEC	COND COPY - CONSTRUC	TOR THIPD O	ODV CHISTON	ACD	

DESC 54252

WELL ID # L52412

structions for completing this report are on the last page of this form

(START CARD) # 136877 Page 2

								t \0/84
(2) TYPE OF			outo O	R Zip 97701	Section 34 SW 1/4 Tax lot 6202R2 Lot Block	SE	E or W. of	1/4
	Deepening				Street Address of Well (or nearest address) 1590  Bend, OR 97701	Sub	division	
		Alteration (	repair/recond	dition) Abandonme		00 Skylin	ner Rd.	<b>4</b>
(3) DRILL ME					(10) STATIC WATER LEVEL:			
Other	Rotary N	lud []Ca	ble	Auger	ft. below land surface.  Artesian pressure ib. per square	inch.	Date Date	**************************************
(4) PROPOSE	ED USE:				(11) WATER BEARING ZONES:			
Domestic Thermal	Commun	ty Indu	ustrial estock	Irrigation Other	Depth at which water was first found			
(5) BORE HO	LE CONST			Coner	From To Es	stimated Flo	w Rate	SWL
Special Construction	on approval	Yes No	Depth of C					SVVL
Explosives used	Yes No	Туре		ompleted Well	ft.			
HOLE Diameter From	To	SEAL		Amount				
	.0	Material	From To	o sacks or pounds	(12) WELL LOG:			
					Ground elevation			
					Material Hard Gray Basalt	From	То	SWL
					Red Broken Basalt WB	768	774	478
How was seal placed					Hard Grav Basalt	774	781	478
Other	d: Method	A	CD	E	Red & Black Cinders & Broken Basalt WB	781 836	836	478
Backfill placed from	ft. to	ft. A	Material		October WB		850	478
Gravel placed from	ft. to	ft. S	Size of gravel					
				Approximation and the second s	And the state of t			
(6) CASING/LIN	IER:			Brief a selection of the second of the second of	- TY 600 pt.	+		
Diameter	IER:	Gauge Ste		Wolded Thursday	HEGETTER		DEC	
		Gauge Ste		Welded Threaded	HEGETTE	F	RECI	EIVE
Diameter		Gauge Ste		Welded Threaded	NOV -> ABBI	1		
Dlameter Casing:		Gauge Ste		Welded Threaded	NOV > 2891	1	RECI	
Dlameter Casing:		Gauge Ste		Welded Threaded	NOV -> 2001	1	AUG 3	0 20
Diameter	From To	Gauge Ste		Welded Threaded	NOV > 2891	1	AUG 3	0 20
Diameter Casing: iner: inal location of shoe(s	From To			: Welded Threaded	NOV → ₹891	1		0 20
Dlameter Casing:	From To			Welded Threaded	NOV - 2001  Western Water Development	1	AUG 3	0 20
Diameter Casing: iner: inal location of shoe(s	From To			Welded Threaded	WESTERN WATER DEVELOPMENT P.O. Box 1670	1	AUG 3	0 20
Dlameter Casing:  iner:  nal location of shoe(s  ') PERFORATIO  Perforations  Screens	Prom To  Solution To	NS:	Material Tele/pipe	: Welded Threaded	WESTERN WATER DEVELOPMENT P.O. Box 1670	1	AUG 3	0 20
Dlameter Casing:  iner:  nal location of shoe(s  ') PERFORATIO  Perforations  Screens	Prom To  DNS/SCREE  Method Type	ENS:	Material Tele/pipe	: Welded Threaded	NOV - 2001  Western Water Development	1	AUG 3	0 20
Dlameter Casing:  iner:  nal location of shoe(s  ') PERFORATIO  Perforations  Screens	Prom To  Solution To	NS:	Material Tele/pipe		WESTERN WATER DEVELOPMENT P.O. Box 1670	1	AUG 3	0 20
Dlameter Casing:  Iner Inal location of shoe(s) Iner Iner Iner Iner Iner Iner Iner Iner	Prom To  Solution To	NS:	Material Tele/pipe		Western Water Development P.O. Box 1670 Redmond, OR 97756		AUG 3	0 20
Dlameter Casing:  iner:  nal location of shoe(s  ') PERFORATIO  Perforations  Screens	Prom To  Solution To	NS:	Material Tele/pipe		WESTERN WATER DEVELOPMENT P.O. Box 1670 Redmond, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Wolf Completed 5/2	2/01	AUG 3	0 20 'RD
Dlameter Casing:  Inal location of shoe(s  ') PERFORATIO  Perforations  Screens  From To Si	From To  Signature Signature Signature Number	ENS:	Material Tele/pipe size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. Box 1670 Redmond, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification:	2/01	AUG 3	0 20 'RD
Dlameter Casing:  iner:  nal location of shoe(s)  // PERFORATIO  Perforations  Screens	Prom To  Solot  Number  Minimum t	Diameter esting time	Material Tele/pipe size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. Box 1670 Redmond, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration this well is in compliance with O.	2/01 tion, or aba	AUG 3	0 20 'RD
Dlameter Casing:  Inal location of shoe(s) Perforations Screens From To S.  WELL TESTS:	DNS/SCREE Method Type Slot Number  Minimum t	ENS:	Material Tele/pipe size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. Box 1670 Redmond, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Wolf Completed 5/2	2/01 tion, or aba	AUG 3	0 20 'RD
Dlameter Casing:  Inal location of shoe(s) Perforations Screens From To S.  WELL TESTS:	Prom To  Solot  Number  Minimum t	Diameter esting time	Material Tele/pipe Size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. Box 1670 RedMond, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, altera of this well is in compliance with Oregon water supply well con Materials used and information reported above are true to my belief.	2/01.  tion, or aba struction st struction st nest knowle	AUG 3	0 20 'RD
Dlameter Casing:  Inal location of shoe(s) Perforations Screens From To S.  WELL TESTS:	DNS/SCREE Method Type Slot Number  Minimum t	Diameter  esting time	Material Tele/pipe Size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. Box 1670 RedMond, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, altera of this well is in compliance with Oregon water supply well con Materials used and information reported above are true to my belief.	2/01 tion, or aba	AUG 3	0 20 'RD
Dlameter Casing:  Inal location of shoe(s) Perforations Screens From To S.  WELL TESTS:	DNS/SCREE Method Type Slot Number  Minimum t	Diameter  esting time	Material Tele/pipe Size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. Box 1670 REDMOND, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, altera of this well is in compliance with Oregon water supply well con Materials used and information reported above are true to my belief.  Signed WWC Date	2/01.  tion, or aba struction st struction st nest knowle	AUG 3	0 20 'RD
Dlameter Casing:  Inal location of shoe(s) Perforations Screens From To S WELL TESTS: Pump eld gal/min D	DNS/SCREE Method Type Slot Number  Minimum t	Diameter  esting time	Material Tele/pipe Size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. BOX 1070 REDMOND, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration will be in compliance with Oregon water supply well constructed above are true to my be belief.  Signed WWC Date  (bonded) Water Well Constructor Certification: I accept responsibility for the constructor Certification:	tion, or aba struction st pest knowle	OW	0 20 'RD
Dlameter Casing:  Inal location of shoe(s  Perforations Screens  From To S  WELL TESTS: Pump  Beld gal/min D  Perature of Water	Prom To  Solot  Method Type  Slot Number  Minimum t  Bailer	esting time  Air  Drill stem a	Material Tele/pipe size	Casing Liner	WESTERN WATER DEVELOPMENT P.O. BOX 1070 REDMOND, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alterator of this well is in compliance with Oregon water supply well construction and the construction and the construction and the construction of this well is in compliance with Oregon water supply well constructed above are true to my be belief.  Signed WWC Date  (bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction, alteration, or above performed on this well during the construction alteration.	tion, or aba struction st best knowle Number	OW	0 20 'RD
Diameter Casing:  Inal location of shoe(s  Perforations Screens From To s  WELL TESTS: Pump  Perature of Water a water analysis don	DNS/SCREE  Method Type Slot Number  Minimum t Bailer	esting time  Air  Drill stem a	Material Tele/pipe size	Casing Liner  Flowing Artesian  Time	WESTERN WATER DEVELOPMENT P.O. BOX 1070 REDMOND, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alterator of this well is in compliance with Oregon water supply well construction and information reported above are true to my be belief.  Signed WWC Date  (bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abare performed on this well during the construction dates reported above performed during this time is in compliance.	tion, or aba struction st best knowle Number	andonment and ards ards and ards ards and ards ards ards and ards ards ards ards ards ards ards ard	0 20 'RD
Dlameter Casing:  Inal location of shoe(s  Perforations Screens  From To S  WELL TESTS: Pump  Peld gal/min D  Perature of Water a water analysis donny strata contain water	DNS/SCREE  Method Type Slot Number  Minimum t Bailer	esting time  Air  Drill stem a	Material Tele/pipe size  is 1 hour	Casing Liner  Flowing Artesian  Time	WESTERN WATER DEVELOPMENT P.O. Box 1670 RedMond, OR 97756  Date started 12/5/01 Completed 5/2  (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, altera of this well is in compliance with Oregon water supply well con Materials used and information reported above are true to my be belief.  Signed Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abart performed on this well during the construction dates reported at elertormed during this time is in compliance with Oregon water so construction standards. This report is true to the best of my known processions.	tion, or aba struction st best knowle Number	andonment andards. Adge and work work	0 20 'RD

# DESC 57760

# STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by Okto 357.765)	
Instructions for completing this report are on the last	page of this form.

(WELLID.)# L 72483 (START CARD) # 168799

(1) OW	NER:				١	Vell Nu	mber Outback #7	(9) LOCATION (	OF WELL E	y legal desc	ription:		
Name US	SFS De	schutes	National F	Forest	t	(Less	ee: City of Bend)	County Desch	nutes Lat	itude	Lor	ngitude	
Address '	1001 E	mkay				(Less	ee: PO Box 431)	Township 18	S	Range		E	WM.
City Ber	nd			State	e OR		Zip 97702	Section 3		NE 1/4	of NW	1.4	
(2) TYI	PE OF	WORK		1	19,			Tax Lot 200	Lot	Block	Si	ubdivision	
New	Well	Deepenir	ng Alter	ation (1	repair/	recondi	tion) Abandonment	Street Address of	Well (or near			ers Rd	
(3) DRI								Bend, OR 9770	)9				
			y Mud		c	Au	ger	(10) STATIC WA	TER LEVE	L:			
7 Other	Rever	se Circu	lation Rot	ary				469.5 ft.	below land su	urface.	I	Date 10/17	/06
(4) PRO	POSE	D USE:						Artesian pressure	-11-1	_ lb. per squa	re inch.	Date	
Dome	stic	<b>√</b> Com	munity [	Indu	strial		Irrigation	(11) WATER BEA	ARING ZO	NES:		-	3.44
Therm		Inject	-	Live			Other						
			NSTRUC	_				Depth at which water	was first four	trace 456	3+; significa	nt @ 612°	
-							mpleted Well 860.5 ft.						
		) es	No Typ				Cratount	From		To		Flow Rate	-
	HOLE	_	12:0		EAL			612	860		see (8)		see
Diameter	From	To	Materia	1	From	To	Sacks or pounds		_				(10)
23	44	1 1	cement		0	160	128 sacks	450.	500				
20 nom	-	612	Intermed	-		-	Material:	456+	528-		trace		456
15	612	860.5	Bento		160	575	28,200 pounds						
		-	Cement		575	612	110 sacks	(12) WELL LOG:					
How was				A Pr	-	В	✓C D DE	Gro	ound Elevation	n			
			as poured		-			, , , , , , , , , , , , , , , , , , ,			T	T	ann.
Backfill p			ft. to		ft. ft.	Mate		see attached form	terial		From	То	SWL
Gravel pl			ft. to		11.	Size	of gravel	see attached form	ation log		-+		
	Diameter		n To C		Cteal	Diest	c Welded Threaded				-		
		+2	1 1	375	<b>√</b>	Plasti	weided Inreaded				REC	EIVE	
Casing: 1			V.2	0,0	*********							nes I W from S	-
						H					ALIC 9	0 202	
		1						-			HUU 3	0 202	
Liner: 1	2	602.5	860.5 .:	375	1		<b>Z</b>			*****			
	-					П					OW	IDN	
Final loca	ation of	shoe(s)									000	1000	
-			SCREEN	S:									
	foration		dethod fac		mill	cut				Pipe	+0=	1	-
-	reens	-	ype				aterial				ECE	VE	
_		Slot		Diam		Tele/p	ipe						
610.5	To 860.5	3/16x	Number 3 11424	Diam	eter	size	Casing Liner			1	DEC 08	2006	
												2000	
							_			WATE	RESOUR	CES DE	PT
-											SALEM, OR	EGON	17
							_ n n						
		7		- 13									
(8) WE	LLTE	STS: M	inimum te	esting	time	is 1 ho	our	Date started 3/15/06		Comp	leted 10/20/	06	
							Flowing	(unbonded) Water W	Vell Construc				
<b>√</b> Pur	np	$\Box$ B	ailer		Air		Artesian	I certify that the we					
Yield	gal/min	Dra	wdown	D	rill ste	m at	Time	of this well is in comp Materials used and int					
1470		0.8					1 hr.	and belief.	ionnucion rep	oriou above a	e il de lo lile o	cot of my K	ilo il louge
1470		0.8		-			24 hr				WWC Nun	nber	
						Ц	1	Signed			1	Date	
Temperat	ure of v	ater ~52	F j	Depth .	Artesia	n Flow	Found	(bonded) Water Well	Constructor	Certification	1:		
Was a wa	ter anal	ysis done	? 🔲 Y	es By	whom			I accept responsibi					
Did any s	trata co	ntain wate	er not suitab	le for i	ntende	ed use?	_ Too little	performed on this well performed during this					
Salty	Mu	ddy 🔲	Odor [	Colore	d [	Other		construction standards	s. This report	is fue to the	best of my kno	wledge and	
Depth of	strata:								1//	10	WC Nur	nber 649	
								Signed Tuple	respect	etrice	au	Date 11/3	/06

# **DESC 57760**

# OWRD

# USFS Deschutes National Forest / City of Bend Outback Well #7

# by Schneider Drilling Co.

# 

FM	TO	DESCRIPTION	
0	2	Top soil and basalt, broken	
2	10	Basalt, grey, medium	
10	16	Basalt, grey, medium, fractured	
16	47	Basalt, grey, medium w/seams of red	
47	66	Cinders, red w/seams of basalt, grey, medium	
66	106	Pumice, white	
106	157	Cinders, red w/seams of basalt, grey, medium & pumice, white	
157	166	Pumice, tan	
166	373	Pumice, tan & basalt, grey, medium & cinders, red	
373	385	Basalt, grey, hard	
385	397	Pumice, tan & basalt, grey, medium	
397	400	Basalt, grey, hard, fractured	
400	410	Cinders, red, soft	
410	426	Basalt, grey hard	
426	460	Basalt, grey, medium-hard interbedded with basalt, black, broken & cinders, black &	k red
460	475	Cinders, red w/black & pumice, tan; soft	
475	508	Pumice, tan & cinders, red w/black; very soft	
508	528	Cinders, red w/black, soft	
528	548	Cinders, red & black, w/pumice, tan & some baslat chips, black	
548	555	Cinders, red & black w/some pumice, tan	
555	608	Pumice, tan w/cinders, red & black	
608	610	Pumice, tan w/cinders, red-brown	
610	639	Basalt, grey, hard, some fractures	
639	647	Basalt, grey, hard-medium, wome fractures, w/some basalt, brown, fracture, occ ves	icles
647	656	Basalt, grey, hard, some fractures	
656	673	Basalt, grey red & brown, medium-soft, broken, some vesicles, some cinders	
673	687	Cinders, red & brown, soft, broken, some vesicles	
687	704	Basalt, grey hard	
704	712	Basalt, red & grey, medium-hard	
712	717	Cinders, red, soft	
717	726	Basalt, dark red w/some grey, medium-hard	
726	732	Basalt, grey, medium-hard	
732	740	Basalt, dark red & grey, medium-hard, vesicular	
740	743	Basalt, grey w/some red, medium-hard	
743	745	Basalt, grey, hard	
745	767	Basalt, grey red & brown, medium-soft, broken, some vesicles, some cinders	
767	774	Basalt, dark red, medium, broken, w/some cinders, red	RE
774	781	Basalt, red, soft, cindery w/some grey basalt	
781	782	Basalt, grey red brown, medium-hard, w/some red cinders	ום
782	832	Basalt, grey w/some red, hard, fractured	1
832	852	Basalt, red w/some brown, medium, fractured w/cinders & some pumice	WATER
000	010 -	D 1 10 10 11	

Basalt, grey w/some red, hard, fractured & some cinders

852 860.5

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DEC 0 8 2006

WATER RESOURCES DEPT SALEM, OREGON

# STATE OF OREGON

AUG 3 0 1993

WATER WELL REPORT 43193 Page 1 of ATER RESOURTED DAPT) #\_ (as required by ORS 537.765) (9) LOCATION OF WELL by legal description: Well Number\_#5B (1) OWNER: Name City of Bend County\_Deschutes\_Latitude\_\_\_ Name P.C. Box 431 Township 18 S N or S. Range\_ 12 E Address E or W. WM. DCTTL OR 97709 Section \_\_\_33 NECity Tax Lot\_\_\_101 (2) TYPE OF WORK: Lot\_ \_\_Block\_ Subdivision Street Address of Well (or nearest address) 1402 NE Lafayette X New Well Deepen Abandon Recondition Bend, OR 97701 (3) DRILL METHOD: (10) STATIC WATER LEVEL: X Rotary Air Rotary Mud Cable 731 ft. below land surface. Other Artesian pressure \_\_\_\_\_\_ lb. per square inch. (4) PROPOSED USE: Date\_ Irrigation (11) WATER BEARING ZONES: ☐ Domestic ☐ Community ☐ Industrial Injection Other \_ Depth at which water was first found 750 (5) BORE HOLE CONSTRUCTION: Special Construction approval 
Yes 
No Depth of Completed Well 1065 ft. SWI. Estimated Flow Rate From To Explosives used Yes X No Type \_\_\_\_ Amount ---750 1065 1000 731 Diameter From To Material From sacks or pounds 19 0 810 cement grout 810 780 35 sacks 19 cement/sand 780 150 26 yards cement/slurry150 5 yards (12) WELL LOG: 13 810 1065 Ground Gevaling 2021 X c  $\square$  E How was seal placed: Method A B SWL Material From To Other Dirt & cobbles Backfill placed from\_\_\_\_\_ ft. to\_\_\_\_\_ ft. Material Basalt gray slab rock 40 Gravel placed from\_\_\_\_\_ ft. to \_\_\_\_ ft. Size of gravel Basalt gray andesite 40 65 (6) CASING/LINER: Basalt fractured 65 72 Plastic Welded Threaded 810 X X Cinders red soft 72 91 91 110 Basalt gray hard Lava pourous red & lavender 110 145 Lava brown & red 145 160 802 1060 10 375 X X Lava gray pourous 160 196 Basalt gray hard 196 208 Lava red & lavender 208 224 Final location of shoe(s) Lava hard 224 250 (7) PERFORATIONS/SCREENS: Lava pourous brown with pumice Method Machine 250 335 Perforations 335 Hard gray andesite 355 Screens Type \_ 355 Lava gray hard 423 Tele/pipe Casing Lava brown & gray medium 423 Liner 460 Number Diameter 3/16x3 11,376 10' 818 1060 X Lava brown soft 460 Gray harder 480 657 Lava soft gray & red 657 675 Decompose lava brown 675 705 CONTINUED (8) WELL TESTS: Minimum testing time is 1 hour Date started \_\_\_ Completed . Flowing Artesian (unbonded) Water Well Constructor Certification: ☐ Bailer Air Pump I certify that the work I performed on the construction, alteration, or abandon-Time Yield gal/min Drawdown Drill stem at ment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief. 1 hr. 750 3 12 Hr. Signed (bonded) Water Well Constructor Certification: \_ Depth Artesian Flow Found I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed Temperature of Water \_\_\_51\_ Was a water analysis done? Yes By whom\_ during this time is in compliance with Oregon well construction standards. This report is true to and best of my prowiping any belief. Did any strata contain water not suitable for intended use? ☐ Too little WWC Number 1483 Salty Muddy Odor Colored Other.

Date 125 9:

# STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

1



MERAES WED AUG 3 0 1993

18<u>5/12e/33</u>ac

				WATER - START CARDAL	43103
Page	2	of	2	SALEM ORECOM	4317

(1) OWNER: Well Number	(9) LOCATION OF WELL by legal descri	ption:
Name City of Bend	County Deschutes Latitude L Township 18 S N or S. Range 12	ongitude
Address P.O.Box 431	Township 18 S N or S. Range 12	E or W. WM.
City Bend State OR Zip 97709	Section 33 NE ¼ N	
(2) TYPE OF WORK:	Tax Lot 101 Lot Block	
New Well Deepen L Recondition Abandon	Street Address of Well (or nearest address) 1402	NE Lafayette
(3) DRILL METHOD:		
Rotary Air Rotary Mud Cable	(10) STATIC WATER LEVEL:	
Other	ft. below land surface.	Date
(4) PROPOSED USE:	Artesian pressure lb. per square inch.	. Date
□ Domestic □ Community □ Industrial □ Irrigation	(11) WATER BEARING ZONES:	
☐ Thermal ☐ Injection ☐ Other		
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found	
Special Construction approval  Yes No Depth of Completed Well ft.		
Explosives used Yes No Type Amount		ated Flow Rate SWL
	RECEIVE	ED
HOLE SEAL Amount  Diameter From To Material From To sacks or pounds		
Diameter 110m 10 Diameter 1	AUG 8 0 20	121
	A00 0 20	121
	(12) WELL LOG:	
	Ground (Parish 2)	
How was seal placed: Method A B C D E	300112	
Other	Material	From To SWL
Backfill placed from ft. to ft. Material	Basalt hard gray	705 750
Gravel placed from ft. to ft. Size of gravel	Basalt pourous	750 780 WB
(6) CASING/LINER:	Basalt gray hard	780 812
Diameter From To Gauge Steel Plastic Welded Threaded	Basalt pourous fractured gray	812
Casing	and red	817
Cashig	Red basalt fractured	817 825
	Basalt gray harder	825 842
	Lava red firm	842 870 WB
Liner:	Conglomerate easy drilling	870 891
	Basalt gray medium	891 899
Final location of shoe(s)	Basalt gray hard	899 913
(7) PERFORATIONS/SCREENS:	Basalt hard medium soft	913 925
Perforations Method	Weathered basalt gray & brown	925 945
Screens Type Material	Weathered conglomerate	945 992
	Basalt pourous hard	992 1040 WB
Slot Tele/pipe From To size Number Diameter size Casing Liner	Lava pourous and broken	1040 1065 WB
(8) WELL TESTS: Minimum testing time is 1 hour	Date started 6/8/93 Completed	8/17/93
Flowing	(unbonded) Water Well Constructor Certification:	0121170
☐ Pump ☐ Bailer ☐ Air ☐ Artesian	I certify that the work I performed on the construct	ion, alteration, or abandon-
Yield gal/min Drawdown Drill stem at Time	ment of this well is in compliance with Oregon well const	ruction standards. Materials
1 br.	used and information reported above are true to my best	t knowledge and belief.
1 111.	W 21	WWC Number 1358
	Sand Days B HALL	Parts 817:192
	Signed Signed	4-4-1
	(bonded) Water Well Constructor Certification:	
Temperature of Water Depth Artesian Flow Found	I accept responsibility for the construction, alteration formed on this well during the construction dates reported	above. All work performed
Was a water analysis done? Yes By whom	during this time is in compliance with Oregon well constru	
Did any strata contain water not suitable for intended use?   Too little	is true to the best of my snowledge and belief.	WWC Number 1483
Salty Muddy Odor Colored Other	Who I State	1212112
Depth of strata:	Signed Signed Signed	Date 81.7193
ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECO	ND COPY - CONSTRUCTOR THIRD COPY - CU	STOMER 9809C 10/91

of this report are to be MAY 2 2 1972 STATE OF OREGON STATE ENGINEER, SALEM, OREGON 97310 ENCINE Please type or print)

within 30 days from the date! A IE ENCINEER state Permit No. SALEM. OF (Do not write above this line) (10) LOCATION OF WELL: (1) OWNER: CITY OF BEND PO. BOY 431 BEND County DESCHUTES Driller's well number Name T. 185 R. SW & NE & Section Bearing and distance from section or subdivision corner (2) TYPE OF WORK (check): Reconditioning [ Abandon [] New Well Deepening [ If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (4) PROPOSED USE (check): Depth at which water was first found (3) TYPE OF WELL: ft. below land surface. Date Domestic | Industrial | Municipal Static level lbs. per square inch. Date Irrigation | Test Well | Other Artesian pressure Bored [ ) CASING INSTALLED: (12) WELL LOG: Threaded | Welded Diameter of well below casing 43 ft. Gage 1.5 900 ft. Depth of completed well Depth drilled 637 ft. Gage .3/2 16 " Diam. from . Formation: Describe color, texture, grain size and structure of materials; ft. to ..... ft. Gage and show thickness and nature of each stratum and aquifer penetrated, " Diam, from .... with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata. ) PERFORATIONS: Perforated? | Yes | No. From MATERIAL Type of perforator used ATTACHED Size of perforations perforations from . perforations from (7) SCREENS: Well screen installed? | Yes | No Manufacturer's Name Set from . Diam. ..... Slot size . .. ft. to ..... Diam. ..... Slot size ... Drawdown is amount water level is lowered below static level (8) WELL TESTS: Was a pump test made? Yes 
No If yes, by whom? 7 gal./min. with ft. drawdown after ft. drawdown after Bailer test gal./min. with Artesian flow Completed APIR 241972 mperature of water Depth artesian flow encountered ... Work started Date well drilling machine moved off of well (9) CONSTRUCTION: SEE ATTACHED Drilling Machine Operator's Certification: Well seal-Material used ... This well was constructed under my direct supervision. Well sealed from land surface to LETTER Materials used and information reported above are true to my Diameter of well bore to bottom of seal 24 AND 20 best knowledge and belief. [Signed] Diameter of well bore below seal 20-16 RAD 12 (Drilling Machine Operator)

Drilling Machine Operator's License No. Number of sacks of cement used in well seal ..... Number of sacks of bentonite used in well seal ... XYDS CONCROT Brand name of bentonite ...... Water Well Contractor's Certification: Number of pounds of bentonite per 100 gallons This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name RISTRASSER DRILL of water Name RISTRASSER Was a drive shoe used? Yes No Plugs ...... Size: location ...... ft. Did any strata contain unusable water? X Yes 🗆 No Type of water? SURFACE depth of strata Method of sealing strata off (EMENTAND Was well gravel packed? 

Yes No Size of gravel: Contractor's License No. 10 Date MAY Gravel placed from .... SP\*45656-119 (USE ADDITIONAL SHEETS IF NECESSARY)

NOTICE TO WATER WELL CONTRACTOR The original and first copy

AUG 3 0 2021

# R. J. Strasser Drilling Co.

OWRD

8110 S. E. Sunset Lane Portland, Oregon 97206

May 6, 1972

RECEIVED MAY 2 2 1972

Log of City of Bend well

STATE ENGINEER SALEM. OREGON

Fill	0 - 4
sand, gravel, and boulders	44 - 9
tan ash	9 - 14
sand, gravel and clay	14 - 23
sand, ash and gravel	23 - 44
black basalt	44 - 119
red and black basalt	119 - 203
red basalt, streaks of clay	203 - 224
light brown basalt	224 - 225
medium hard black basalt	225 - 271
hard black basalt	271 - 292
medium hard red and black basalt	292 - 322
dark grey basalt	322 - 341
red and black fractured basalt	341 - 382
black basalt and brown clay	382 - 385
red, black and yellow rock	385 - 397
black basalt	397 - 403
black, brown and red basalt; clay seams	403 - 432
black, brown and red basalt, tan clay	432 - 438
porous black basalt	438 - 443
black basalt	443 - 454`
brown clay with broken basalt	454 - 487
yellow clay and black basalt	487 - 495
tan clay and brown and black basalt	495 - 498
black and brown basalt with brown clay	498 - 539
black basalt	539 - 566
slightly porous black basalt	566 - 595
medium hard black basalt	595 - 602
slightly porous black basalt	602 - 626
medium hard black basalt	626 - 670
porous black basalt	670 - 700
porous red and black basalt	700 - 721
hard black basalt	721 - 724
slightly porous black basalt	724 - 741
brown, red, tan and black basalt	741 - 744
brown and black basalt	744 - 777
soft porous brown basalt	777 - 783
brown and black basalt	783 - 792
porous black basalt	792 - 838
black basalt	838 - 889
black basalt with brown clay	889 - 900

## R. J. Strasser Drilling Co.

8110 S. E. Sunset Lane Portland, Oregon 97206 April 29, 1972 RECEIVED MAY 2 2 1972 STATE ENGINEER SALEM OFFICE

Mr. William Mc Call, Geologist Oregon State Engineer Office Salem, Oregon 97310

OK Jul

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AUG 3 0 2021

OWRD

Dear Mr. Mc Call:

Pursuant to our telephone conversation of April 14, 1972, we are writing you this letter to record the sealing program you have accepted and we have performed on the municipal well we have recently completed for the City of Bend, Oregon. We shall submit a regular state well report, however there is no space adequate in the regular form to record this sealing proceedure.

- 1. The 16" permanent casing is sealed in the 20" diameter hole at 637 feet with 25 bags of cement.
- 2. Above the seal at the bottom of the 16" pipe we backfilled the annulus between the twenty inch hole and the sixteen inch pipe with rock cuttings from the well and crushed rock to a depth of 262 feet from the land surface. There we pumped in another 25 bags of cement grout.
- 3. The 235 feet of 20" 0.D. pipe that was used in drilling the well was removed from the well and the annulus between the open 24" hole and the 16" pipe was backfilled with rock cuttings and crushed rock to a depth of 112 feet from the surface at which depth we pumped in another 25 bags of cement grout.
- 4. The 24" 0.D. pipe was left in the well. The hole was backfilled with rock cuttings and crushed rock to 50; a depth five feet deeper than the bottom of the 24" pipe. From this depth we backfilled the well to the surface with 8 cu. yd. of 3½ sack/yard concrete, filling the annulus between the 24" and 16" casing and the voids outside the 24" pipe.

It is our feeling that this well is more than adequately sealed

**OWRD** 

and are confident it should meet the sealing requirements of any of the numerous governmental agencies who have so recently become involved in ground water protection.

Respecfully submitted,

Robert L. Strasser, partner R. J. STRASSER DRILLING CO.

BI

WATER WELL REPORT L G L I are to be filed with the WATER RESOURCES DEPARTMENT, DES APR 1978 te Well No. 185 STATE OF OREGON (Please type or print) within 30 days from the date (Do not write above this line) TER RESOURCES DEPTH No. of well completion. SALEM ODECHE (1) OWNER: (10) LOCATION OF WELL: Name / County DESCHUTES Driller's well number SW 1 NW 1 Section 5 T. 185 R. 17 E OWR 0. Box 4 Bearing and distance from section or subdivision corner 300 (2) TYPE OF WORK (check): WEST OF EXISTING BEND CITY WELLET Reconditioning [ Abandon | New Well W Deepening [ If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (3) TYPE OF WELL: (4) PROPOSED USE (check): Depth at which water was first found Static level 242 Domestic | Industrial | Municipal V ft. below land surface. Date 3 - 21 - 78 Jetted [ Irrigation | Test Well | Other Dug Artesian pressure lbs. per square inch. Date CASING INSTALLED: LLED: Threaded | Welded | 0 ft to 46 ft Gage 13/2 (12) WELL LOG: Diameter of well below casing ..... ....." Diam. from ..... Depth drilled 5 ft. Depth of completed well 200 ft to 234 ft Gage ,375 18 " Diam. from ... Formation: Describe color, texture, grain size and structure of materials; 14 " Diam. from ... ft. to 706 ft. Gage 1375 and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-hearing strata. PERFORATIONS: Perforated? Tyes No. Type of perforator used From Size of perforations FILL MATERIALS +5 -5 in. by BLDRS, GRAVEL - SAND. 27 .... perforations from ...... ft. to ... 11 . 11 TAN 27 43 perforations from ...... BLK, BRKN 43 70 BASALT MED SEFT perforations from 70 101 (7) SCREENS: Well screen installed? | Yes | No 16/ 186 GRAY MEDHO Manufacturer's Name ... REDY BLK BRKNE ! NOERS 106 175 ... Model No. . 175 199 199 224 GRAVEL COMESTED, CONG. Diam. ..... Slot size ..... GRAVER BIK BASALT 224 232 232 285 BASALT BLK MED TO HD (8) WELL TESTS: Drawdown is amount water level is lowered below static level 285 326 " VESICULAR (FLOOT be Was a pump test made? Yes | No If yes, by whom? OwnER 326 337 " FRACTURED ND, 337 342 Yield: 2000 gal./min. with 185 ft. drawdown after 17 hrs. MEDHA 342 367 367 387 387 445 MED HD Bailer test gal./min. with ft. drawdown after GRAVEL BASACTIC SUME REDDISH BRN TANCIAY SEAMS Artesian flow 19 78 erature of water 38 Depth artesian flow encountered \_\_\_\_\_ ft. 19 77 Completed /- 23 Work started Date well drilling machine moved off of well 19 28 CONSTRUCTION: Well seal-Material used PORT CAND CEMENT TIRE 1411 Drilling Machine Operator's Certification: This well was constructed under my direct supervision. 706 Well sealed from land surface to ..... Materials used and information reported above are true to my Diameter of well bore to bottom of seal 17 2, in. best knowledge and belief. [Signed] William & William Date 3-31 19)8 Diameter of well bore below seal ..... (Drilling Machine Operator) Number of sacks of cement used in well seal ..... Drilling Machine Operator's License No. 864 How was cement grout placed? GRAVITY FLOW WHILE U: BRATING CASING TO PREVENT BRIDGING. Water Well Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Was a drive shoe used? A Yes 🗆 No Plugs ...... Size: location ...... illiAm D Did any strata contain unusable water? 🔲 Yes 💢 No Rosmons Type of water? depth of strata Method of sealing strata off Was well gravel packed? Tyes X No Size of gravel: Contractor's License No. 465 Date Gravel placed from ...... ft. to ..... ft.

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the

PAGE WATER WELL REPORTS EIVED

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

STATE OF OREGON APP 7. 1978 State Well No.

(Please type or print)

(Do not write above this line) DESOURCE State Permit No. ......

7	A L LA CIENTIA
(1) OWNER:	(10) LOCATION OF WELL:
Name CATY OF BEND	County Driller's well number
Address P. O. B. D. 43/	34 34 Section T. R. W.M.
BEND DR 97701	
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivision corner
New Well □ Deepening □ Reconditioning □ Abandon □	
If abandonment, describe material and procedure in Item 12.	(11) WATER I EVEL. Completed and
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed well.
Rotary   Driven	Depth at which water was first found ft.
Cable	Static level ft. below land surface. Date
Dug   Bored   Irrigation   Test Well   Other	Artesian pressure lbs. per square inch. Date
CASING INSTALLED: Threaded   Welded	(12) WELL LOG: Diameter of well below casing
"Diam. fromft. toft. Gage	
" Diam. from ft. to ft. Gage	Depth drilled ft. Depth of completed well ft.
" Diam. from	Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated.
NEDECO A MICAYS	with at least one entry for each change of formation. Report each change in
*Perforated?   Yes   No.	position of Static Water Level and indicate principal water-bearing strata.
Type of perforator used	MATERIAL From To SWL
Size of perforations in. by in.	BASAUT BLKABRY SOME VES. CHUR -SCORIACEOUS
perforations from ft. to ft.	ZONER WIRED BRN COLUR 462 687
perforations from ft. to ft.	CAVING WIB 687 706 485
perforations from ft. to ft.	CASING W/B 687 706 485 CASING SET + ALL STARTAS AROLE
(7) SCREENS: Well screen installed?   Yes   No	706 GEOLTEA SEALED OFF.
Manufacturer's Name	BASALT BLK HD. 707722
Type Model No.	n " Sart. 722 723
Diam Slot size Set from ft. to ft.	リ リ 月口, 723 727
Diam. Slot size Set from ft. to ft.	11 " Sopt. 727 728
(8) WELL TESTS: Drawdown is amount water level is	" GRAY BRN, REDBEN VESTONLIA TO SCOR-
lowered below static level	14 CEOUS WIB. 128 165
Was a pump test made?   Yes   No If yes, by whom?	BASALT NO BCK 765 771
Yield: gal./min. with ft. drawdown after hrs.	WIB. VESICHAR & SCORINGEOUS
	BASALT GRAY+BLX PORPHYRITIC 79, 793
" " " "	11 11 11 1 SOFT 793 794
Bailer test gal./min. with ft. drawdown after hrs.	1. " " HD. 796 799
Artesian flow g.p.m.	" SEFT 799 800
erature of water Depth artesian flow encountered ft.	Work started 19 Completed 19
(v) CONSTRUCTION:	Date well drilling machine moved off of well
Well seal—Material used	Drilling Machine Operator's Certification:
Well sealed from land surface toft.	This well was constructed under my direct supervision.
Diameter of well bore to bottom of seal men of seal	Materials used and information reported above are true to my best knowledge and belief.
Diameter of well bore to bottom of seal RECEIVED	The state of the s
Number of sacks of cement used in well seel	[Signed], 19, 19
How was cement grout placed? AUG 3 0 2021	Drilling Machine Operator's License No.
	Water Well Contractor's Certification:
AMDA	
OWRD	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Was a drive shoe used? 🗌 Yes 🗍 No Plugs Size: location ft.	Name
Did any strata contain unusable water?   Yes   No	Name (Person, firm or corporation) (Type or print)
Type of water? depth of strata	Address 13811
Method of sealing strata off	[Signed]
Was well gravel packed?   Yes   No Size of gravel:	(Water Well Contractor)
Gravel placed from ft. to ft.	Contractor's License No Date, 19

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AUG 3 0 2021

**OWR**D

		the plant	
		The pleaser this log is so late him filed is become was writing for Fred Releites to conclete the E by to a plant of the plants.	
	Discouly Williams	a so late being filed to to correlate the E	
		in beginse	

						_		10	11-	7 /	/ =	, 01
1	An . mn		FFB	2 5 19	94	6		/ DS/	1/2	E/	7	XX
/		OF OREGON	10.50 1 5 JAN 10 1	Action Action 1 to 1		( 0	esc	Pá	age	1 pf	2	
(8	s required	ELL REPOI	WATER RE	SOURC A. ORE	GON CON	1.	1108	(START CARD) #_1	6158	}		
	OWNER		OMEEN		ımber: 3		(9) LOCATIO	N OF WELL by l	egal d	escrip	tion:	
		of Bend Box 431		-			County Desc	chuteside		Longitud	ie	•
City			State	OR	Zin -	97701	Township 183	N or S. Range 1 NW	ZE CF		_E or W	.WM.
(2)		F WORK:		OIC	Ri	CEN	F Section	Lot Bloc	DE_	4		
X Ne			Recondition		Abandon			Well (or nearest address)				
		METHOD	_ recondition			AY - 9		Tell (in ficalest address)				
		Rotary Mud	Cable		VATER I	RESOUR	F(10) STATIC	WATER-LEVEL	:			
	er				3AL	EM. OR	E(10) STATIC	. below land surface.		Date	10/	8/90
		SED USE:				,	Artesian pressure	lb. per squ	uare inch.	Date		
☐ Doi		Community [ Injection [	Industrial Other	☐ [rri	gation		(11) WATER	BEARING ZONE	ES:	N.		
		OLE CONS'		N.			Depth at which water w	as first found 389				
	Constructio	n approval Yes	No Dept	h of Comp	leted Well _	812 ft.	From	To	Estin	mated Flow	v Rate	SWL
Evoluci	ves used [		bd				389	396		75		376
r.xpiosi	HOLE	_ Es Type _	SEAL	Amount			417	488		00		376
	ter From		rial From	n To	sacks	mount or pounds	690	812	1.5	00		376
	6" 0 8"497	497 ceme	nt 0	365	13	333,33	(12) WELL LO	)G·				
-	0 497	012	7	+			(12) WEEE EC	- Ground elevat	ion			
							Top Soil	Material		From 0	То	SWL
		: Method $\square$ A	□в□с	_ D	□Е		Pinhole La	va Black		1	20	
☐ Oth					-		Black Lave	* COLUCK		20	25	
		ft. to			Peac	ravel	Broken Bla	ck Lava		25	32	
		/LINER:	11, 3120	oi gravei	1000	IIGYEA	Black Lava			32	39	
252 10			Gauge   Steel	Plastic	Welded	Threaded	Red Cinder	s y Pumice(mu	4441	39 50	50 81	
('asing:	12"	From To 496			<b>□X</b>		Black Lava	A LIMITCE (MILL	uuy /	81	90	
							Broken Blk	Lava & Red		90	120	
							Broken Bla			120	133	
Liner:_							Black Lava	Lava Muddy		133	139	
-							Red Cinder	s Lava Muday		139	165 183	1
	ation of sho						Brownm San	-		183	192	
		RATIONS/SO					Brown Sand			192	203	
ĻX	Perforation Screens		_Facto				Brown Cong Broken Bla			203	209	
	Screens	Slot	7	Materi Tele/pipe	a:		Black Lava			209	212	
From	То		r Diameter	size	Casing	Liner	Pink Lava	· · · · · · · · · · · · · · · · · · ·		237	286	
417	497	1/4"1920	12				Brown Lava			286	297	
							Grey Lava			297	307	10
							Red Cinder	s (cemented	4 /	307	323 354	
		-						2/26/00	pleted	12/5		
(8) V	TELL T	FCTC. W:::	<u> </u>				(unbonded) Water	Well Constructor Cer	rtificati	ion:		
		ESTS: Minin		timeis	I hour	ng	I certify that th	e work I performed or	n the co	nstructio	n, alters	tion, or
	Pump	☐ Bailer	☐ Air		☐ Artesi		standards. Materials	well is in compliance used and information re	e with (	oregon water	true to	my best
	gal/min	Drawdown	Drill ster	m at	Tir		knowledge and belief.	+0 1				
550		24	454		24 1%	ır.	Signed X	1 Duck	n	WC Nun	22/	94
								ll Constructor Certif				,
Tempera	ture of water	52°	Depth Ar	tesian Flor	v Found		I accept respons	ibility for the construct	tion, alt	eration.	or aband	onment
CWas a w	ter analysis	done? Yes					work performed du	is well during the consting this time is in	compli	ance wit	h Orego	on well
		n water not suitable	for intended us	e? 🗆 T	oo little		construction standard	ls. This report is true t	to the be	est of my	knowled	dge and

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT

Depth of strata:

Signed I SECOND COPY - CONSTRUCTOR

belief.

WWC Number 138 Date 2/22/9 THIRD COPY - CUSTOMER

### STATE OF OREGON WATER WELL REPORT WATER RESOURCES DEPI. 9/08 (as required by ORS 537.765) SALEM, OREGON

FEB 2 5 1994

(START CARD) # 16158

(1) OWNER: Well Number 3	(9) LOCATION OF WELL by legal description:
Name City of Bend	CountyLatitudeLongitude
Address P 0 Box 431	Township N or S. Range E or W. W.
City Bend State Or Zip 97701	Section
(2) TYPE OF WORK: DECEIV	Tax Lot Lot Block Subdivision
□ New Well □ Deepen □ Recondition □ Abandon =	Street Address of Well (or nearest address)
(3) DRILL METHOD:	
Rotary Air Rotary Mud Cable MAY - 9 19	4(10) STATIC WATER LEVEL:
(4) PROPOSED USE:  Domestic Community Industrial Irrigation OREC	Attesian pressure lb. per smare inch Date
☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation ☐ OREC	(II) WATER BEARING ZONES:
☐ Thermal ☐ Injection ☐ Other	
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found RECEIVED
Special Construction approval Yes No Depth of Completed Well ft.	
Explosives used Yes No Type Amount	From To Estimated Flow Rate   SW
HOLE SEAL Amount	AUG 9 9 2021
Diameter From To   Material From To sacks or pounds	
	OWRD
	OWN
	(12) WELL LOG:
	Ground elevation
How was seal placed: Method A B C D E	Stoute devation
Other	Material From To SWI
Backfill placed from ft. to ft. Material	Brown Lava (hard) 354 360
Gravel placed from ft. to ft. Size of gravel	Red Lava (hard) 360 373
(6) CASING/LINER:	Grey Lava 373 391 389
Diameter From To Gauge Steel Plastic Welded Threaded	Brown Conglomerate 391 412
Casing:	Grey Basalt Fratured 412 434
	Red Cinder Conglomerate 434 478
	Grey Basalt. 478 500
	Brown & Red Conglomerate 500 512
Liner:	Hard Grey Basalt 512 540
	Brown Basalt 540 550
Final location of shoe(s)	Red Basalt 550 554
(7) PERFORATIONS/SCREENS:	Red Basalt 554 559
Perforations Method	Brown Basalt Broken 559 566
Screens Type Material	Brown & Red Conglomerate 566 571
Slot Tele/pipe	Red Basalt 571 579
From To size Number Diameter size Casing Liner	
	Soft Red Basalt 579 594 Hard Brown Basalt 594 606
	1000
(9) WELL TECTS, M	
(8) WELL TESTS: Minimum testing time is 1 hour	Continued on pape 3
Pump Bailer Air Flowing Artesian	Date started Completed
L rump L baner L Air L Artesian	(unbonded) Water Well Constructor Certification:  I certify that the work I performed on the construction, alteration, or abando
Yield gal/min Drawdown Drill stem at Time	ment of this well is in compliance with Oregon well construction standards. Materia
1 hr.	used and information reported above are true to my best knowledge and belief.
-	Signed WWC Number
	Signed Date
Temperature of Water Depth Artesian Flow Found	(bonded) Water Well Constructor Certification:
Was a water analysis done? Yes By whom	I accept responsibility for the construction, alteration, or abandonment work pe formed on this well during the construction dates reported above. All work perform
	during this time is in compliance with Oregon well construction standards. This repo
Did any strata contain water not suitable for intended use?   Salty Muddy Odor Colored Other Other	is true to the best of my knowledge and belief.
	WWC Number
Depth of strata:	Signed Date
ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECON	D COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 10/

### STATE OF OREGON

FEB 2 5 1994

Desc 9108 185/12E/726

WATER WELL REPORT WATER RESOURCES DER1.

SALEM. OREGON

(START CARD) # 16158

(1) OWNER:		Well N	Number			OF WELL by lega				
Name City	of Bend		-		County	Latitude		Longitude		
Address P 0					Township	N or S. Range			_E or W	WM.
City Ben		State ()	r z	ip 97701	Section		14	1	4	
(2) TYPE OF			DEC	EIVED	Tax Lot	LotBlock		Subdi	vision	
	☐ Deepen ☐ [	Recondition	Abar	don V Z	Street Address of	Well (or nearest address	)			
(3) DRILL M	ETHOD:	<u></u>	2.1.1							
Rotary Air	☐ Rotary Mud	Cable	MAY	- 9 1994	(10) STATIC WA	TER LEVEL:				
Other					ft.	below land surface.		Date		
(4) PROPOS		444	HIER HE	SOURCES DE	PT. Artesian pressure	below land surface. lb, per se	quare inch	. Date		
	Community	industrial	☐ SAIgation	, OREGON	(11) WATER BE	ARING ZONES:				
☐ Thermal	☐ Injection ☐	Other	,							
(5) BORE H	OLE CONSTR	UCTION:			Depth at which water	was first found				
Special Construction	approval Yes	No Depth o	of Completed	Well ft.						
Explosives used	Yes No T	уре	Amour	nt	From	* To	Estim	ated Flow	Rate	SWL
HOLE		SEAL								
Diameter From	To   Materi		To s	Amount acks or pounds						
				•						
						*				
-					(12) WELL LOC	1.				
				7-	(12) WELL LOC		tion			
How was seal pla	ced: Method A	□в □с	$\Box$ D	Е		Giodia cicja				
		Contract Con				Material		From	To	SWL
Backfill placed fro	om ftto	ft. Mater	ial		Pad Cindo	rs			710	O II L
	m ft. to				Red Cinde				812	
(6) CASING/	LINER:			The second secon				7.14	012	
Diameter		Gauge   Steel	Plastic Weld	led Threaded		-			-	
Casing:						77.000				-
			П	i						-
		<u> </u>	F F	i						-
Liner:		一一一	H- H						-	
Differ.				i - H			RE	CEI	<b>VED</b>	
Final location of s	hoe(e)		L L	ı. L						
	ATIONS/SCRE	ENS.			-		All	G 30	2021	
Perforati							HU	u v	COLI	
Screens						•				
Screens			Material					OWI	3D	
From To	Slot size Number		e/pipe size Casi	ing Liner				9468	82	
	1		aze Casi	ing Liner						
	-	-								
	+			ļ , L	-			-		
	+									
				] []						
(8) WELL TH	STS: Minimun	n testing time	is 1 hour							
				Flowing	Date started	Con	npleted			
☐ Pump	☐ Bailer	☐ Air		Artesian		ell Constructor Certific				
Yield gal/min	Drawdown	Drill stem a		Time	I certify that the v	vork I performed on the	constructi	on, altera	tion, or	abandon-
Tield gai/min	Diawdown	Drift stem a		Time	ment of this well is in	compliance with Oregon	well constr	uction sta	indards. I	Materials
				1 hr.	used and information	reported above are true t	o my best	knowled	ge and be	elief.
						555		WWC N	ımber	
					Signed			Date		
						Constructor Certificati				
Temperature of W	ater	Depth Artesian	Flow Found			lity for the construction,		or shand	onment u	vork ner
Was a water analy	sis done? Yes				formed on this well du	ring the construction date	s reported	above. Al	work no	erformed
_	tain water not suitab		se? To	oo little	during this time is in or	maliance with Orogan w	all agester	ction stan	dards. Th	is report
	ddy 🗆 Odor 🗆				is true to the best of r	ny knowledge and belief	1	WWC N	umber_	
Depth of strata: _					Signed	*		Date	unioci	99-
-	OCT CODY WATE	D DECOMBONS	DEDI POR	`` TT	~-Billon			Jaic		

#### STATE OF OREGON WATER WELL REPORT

City of Bend

(1) OWNER:

Name

DESCRESC 1738

MAY 28 1993

(as required by ORS 537.765) Page 1 of 1

Well Number

WATER RESOURCES DEPT. SALEM, OREGONART CARD) #\_ (9) LOCATION OF WELL by legal description: County Deschutes Latitude\_ Longitude, Township 18 S N or S. Range 12 E E or W. WM. NW SE Tax Lot Lot Block Subdivision Street Address of Well (or nearest address) 61473 Blakely Rd Bend, OR 97701 (10) STATIC WATER LEVEL: 402.5 ft, below land surface. Date 4/30/93 Artesian pressure \_\_\_ lb. per square inch. Date (11) WATER BEARING ZONES: Depth at which water was first found\_ From Estimated Flow Rate SWL 548 646 4023 500 646 800 500 402동 (12) WELL LOG: Ground elevation Material From SWL To Sandy soil 0 4 Basalt gray pourous 9 4 Basalt gray hard 9 24 Pourous lava gray 24 38 Lava cinders red 38 46 Pumice yellow & white 46 86 Lava gray medium hard 86 95 Lava gray fractured 95 150 Lava gray harder fractured 150 159 Lava brown pourous & fractured 159 205 Lava gray pourous harder 205 212 Lava red & gray softer 212 229 Lava gray hard 229 309 Lava fractured gray 309 312 Lava hard gray 312 318 345 Lava red cinders 318 Lava brown 345 355 Lava lavender 355 362 Lava gray hard 362 391 Lava lavender 391 404 CONTINUED 2/25/92 4/29/92 Date started Completed (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief. WWC Number Date 5/21 (bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time's in comparance with Oregon well construction standards. This report is true to the best of tay knowledge and belief.

WWC Number 23 WWC Number.

Address P.O. Box 431				
City Bend	State	OR	Zip	97709
(2) TYPE OF WORK:				
New Well Deepen	Recondition	□ A	bandon	
(3) DRILL METHOD:				
Rotary Air Rotary Mud	Cable			
Other		-	- 1	
(4) PROPOSED USE:				
☐ Domestic ☐ Community ☐	Industrial	☐ Irrigat	ion	
	Other			
(5) BORE HOLE CONSTRUC	CTION:		-	
Special Construction approval Yes	No Depth	of Comple	ted Wel	1 800 ft.
Explosives used Yes No Type	e	Am	ount	
HOLE	SEAL			mount
Diameter From To   Material	From	To		or pounds
17   0 548 Cement	1 0	175	163	sacks
12   548   800   Bentoni		528		sacks
Cement	528	548	75	sacks
How was seal placed: Method A	□в Жо	_ D		1
Backfill placed from ft. to	A 1/	-tol		
				-
Gravel placed from ft. to ft. to	n. Size	oi gravei		
		Di	.1.1.	
	suge Steel	Plastic W	elded X	Threaded
Casing 12 JTO . 2		H -	— <del>π</del>	
	-   -	Η .	Η	H
			$\Pi$	H
Liner:	TH.	ī	П	
	<b>一</b> 日	П	П	H
Final location of shoe(s) 548			_	_
(7) PERFORATIONS/SCREET	NS:			
Perforations Method			-	
Screens Type		Material		
Slot	Tel	e/pipe	72 T	
			asing	Liner
		No.		
(8) WELL TESTS: Minimum t	esting time	is 1 ho	ur	
The same of the sa	come time	. 13 1 110	_Flow	ing
☐ Pump ☐ Bailer	X Air		Artes	
Yield gal/min Drawdown 500-1000	Drill stem	at	Tir	ne
200-1000	800		1 1	nr.
	Depth Artesian	Flow Fou	nd	
	By whom		-	
Did any strata contain water not suitable  Salty Muddy Odor Co			Too litt	le
Depth of strata:			_	
ORIGINAL & FIRST COPY - WATER I	RESOURCES	DEPARTA	MENT	SECON

Date &

# STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

DESC1738 1738 Page 2 of 2 (START CARD) # 36701 pg 2

(1) OWNER: (9) LOCATION OF WELL by legal description: Well Number City of Bend Name County Deschutes Latitude P.O. Box 431 Address Township 18 S N or S. Range E or W. WM. 97709 Bend OR City State Zip (2) TYPE OF WORK: \_Block\_ Subdivision Street Address of Well (or nearest address) 61473 Blakely Rd Bend, OR 97701 ☐ New Well ☐ Deepen Recondition ☐ Abandon (3) DRILL METHOD: Rotary Air Rotary Mud Cable (10) STATIC WATER LEVEL: Other. ft. below land surface. (4) PROPOSED USE: \_ fb. per square inch. Date ☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation (11) WATER BEARING ZONES: ☐ Injection Other (5) BORE HOLE CONSTRUCTION: Depth at which water was first found Special Construction approval Yes No Depth of Completed Well Explosives used Yes No Type\_ From Estimated Flow Rate SWL HOLE Amount Diameter From Material sacks or pounds (12) WELL LOG: Ground elevation \_ How was seal placed: Method A B  $\Box$  c Material From SWL Broken rounded lava soft Backfill placed from\_ 404 \_ ft. to\_\_\_ \_ ft. Material 410 Size of gravel Cinders red soft 510 Gravel placed from\_ 410 ft. to\_ ft. (6) CASING/LINER: Lava gray hard 510 548 Lava gray and brown pourous 548 646 To Gauge Steel Plastic Welded Threaded Lava cinders red 646 800 Casing: ... Liner: Final location of shoe(s) (7) PERFORATIONS/SCREENS: Perforations Method Screens Material Tele/pipe From Number Diameter Casing Liner WATER HESUURCES LEFT. SALEM, OREGON (8) WELL TESTS: Minimum testing time is 1 hour Date started Flowing ☐ Artesian ☐ Pump ☐ Bailer ☐ Air \_\_\_ (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandon-Drill stem at Yield gal/min Drawdown Time ment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief. 1 hr. Signed (bonded) Water Well Constructor Certification: Temperature of Water \_ Depth Artesian Flow Found I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is a compliance with Oregon well construction standards. This report Was a water analysis done? Yes By whom Did any strata contain water not suitable for intended use? 

Too little ☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other \_ Depth of strata: ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT

AUG 3 0 2021

## STATE OF DREGON WATER RESOURCES DEPARTMENT

ev

**OWRD** 

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN THE RULES AND REGULATIONS PRESCRIBING GENERAL STANDARDS FOR THE CONSTRUCTION AND MAINTENANCE OF WELLS IN OREGON

Before approval can be considered the following questions must be answered.

Requ NE,	sts shall be submitted to the Watermaster Division, 3850 Portland Road, alem, OR 97310.
Cate	4/9/92
Well	Chuch Stadeli 123
(1)	ocation of Well: 8 Nº Nº 1/4 ASSE 1/4 of Section 7
	Township 185 , Range 12 E . Deschutes County.
	Address at well site or nearest known address:
	Rd Bend on
(2)	lame and address of Landowner: City of Bend
	F1. Bb 431
	Bend OR
(3)	The distance to the nearest well and septic drainfield: 200' + .
(4)	The unusual conditions existing at the well site:
	N/A
(5)	The proposed construction methods that the well constructor or landowner constructing the well believes will be adequate for his particular well:
	17" bore hole to 548" 12" casing to 548, coment
	great from SYX' UP to 528' bent chies from
	528' UP to 150' Cement grott from 150'
	to Land Surface Request use of bent Chips
	the state and the last in last the trans

construction (attach addi	tinent fea	tures of the proposed well design and	
	3# L 11		RECEIVE
	D' Casing	Cindens, Lova, basalt Inner bids, some 1055	AUG 3 0 202
형 '파		Cindens, Lova, basalt	
Coment GREAT 150'-		cinculation	OWRD
. •		Volcanics, Runble,	
		Lava innendeds, Verticle tubes	
Bent Chies		larse amounts of loss circulation	
- ,		STATIC LEVEL 390'	,
Cement 1544' TO	(Signed		
		(WELL CONSTRUCTOR)	

Approved by Denied by:

Remarks:

Date:

#### NOTE: .

 If approval, all other phases of construction must be in compliance with State Well Construction Standards.

For Water Resources Department Use Only

(2) If it should be determined at some future date that the well, due to its construction, is offering an avenue for pollution of the ground water body, it will be necessary for you to return to the site to correct any well deficiences.

84150



### WELL SERMICES ....

RECEIVED

AUG 3 0 2021

OWRD

#### TELECOPIER COVER LETTER

PLEASE DELIVER THE FOLLOWING PAGES TO:
PLEASE DELIVER THE FOLLOWING PAGES TO:  NAME: Greg Beamer DATE: 4/10/92  FIRM: WRD FROM: Church deli
FIRM: WRD FROM: Chuck deli
CITY: Selem
FAX NUMBER: _378 8130
TOTAL NUMBER OF PAGES INCLUDING COVER LETTER: 3
IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL!!
ORIGINAL DOCUMENTS BEING SENT BY MAIL? YES NO
Please find enclosed request for special well construction standards for 12" well for the City of Bend.
special well construction slandards
for 12" well for the City of Bend.
Please call if you have any guestions
Thanks
Chuck

220 Acedemy St. • Mt. Angel, OR. 97362 • PH [503] 845-6824 • FX [503] 845-9274

### ' STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

JUL 1 4 1995 (START CARD) # 77912

	completing this re		ROCK BLUTT	TER KESSURE	1.			
(1) OWNER:		Well Nu	mber # 3	SA)-EOCATION OF	WELL by legal descri	iption:		
Name City of	Bend			County Deschute	S Latitude	Long	itude	
Address P O Box				Township 18S		12E	E or W.	WM.
D 1		See OD	zip 97709	Section 7	NW 1/4	SE	1/4	. ,,,,,,
		State OR	Zip 97709					
(2) TYPE OF WORK					otBlock	D	division	
		tion (repair/recond	ition) Abandonment	Street Address of Well	(or nearest address)	rowers n	Mu	
3) DRILL MET	HOD:							
X Rotary Air	Rotary Mud	Cable Au	ger	(10) STATIC WATEL	R LEVEL:			
Other				395 ft. beld	ow land surface.	Da	06/01	/95
4) PROPOSED	USE:			Artesian pressure	lb. per square	inch. Da	ate	
,	Community	Industrial	Irrigation	(11) WATER BEARI				
			Other	(,				
	_ ,	-	Outer	Depth at which water was	See Sound 305!			
(5) BORE HOL			950 .	Depth at which water was	first round	-		-
			ompleted Well 850 ft.					1
Explosives used	Yes No Type	e	Amount	From	To	Estimated	Flow Rate	SW
HOLE		SEAL		395	850	IOOUT	EIVE	1395
Diameter From	To Materia		Sacks or pounds					
19"   0	30 Cement	0 150	176 sacks			AllG	3 0 202	21
	530 Cement		66 sacks			7100		
	(4.5							
							WRD	
				(12) WELL LOG:			9088	
How was seal place	d: Method			Ground	l Elevation			
Other			yards					
Backfill placed from	n <u>415</u> ft. to <u>1</u>	50 ft. Mat	erial sand grout	Materi		From	To	SWL
Gravel placed from	ft. to	ft. Size	of gravel	Top soil & roots	3	0	3	
(6) CASING/LI	NER:			Red Dirt		3	5.5	5
Diameter	From To G	auge Steel Plas	tic Welded Threaded	Lava grey broker	1	5.	5 10	
10!!	1 1	375 X [		Lava frey med		10	13	
Casing: 12	12 100 1				w/seams of broken		43	
	<del>                                     </del>			Cinders red loss		43	50	
				Pumice white & t		50	54	
Liner: 10"	520 850 .	366 X	[X]	Lava grey very b	moken & cavy	54	79	
				Lava grey med		79	83	
Final location of sh	oe(s)			Lava grey hard		83	104	
7) PERFORAT	IONS/SCREEN	S:		Lava grey med		104	116	
	Method Ma	_		Lava grey & red	broken & gravely	116	123	
Screens	Type Fact		Material Steel		rd with fraxtures		138	
	Slot	Tele	pipe	Taxa oney hand		138	144	
From To	size Number 1/8X3 12768	Diameter si	te Casing Liner	Lava nod with no	mice & cinders b		187	
2/0 820	1/003 12/00	10		Lava reddish bro		187	198	
	-						196	
					grey hard w/very	198		
				little red			315	
				Lava red gravely		315	324	
				Red cinders loos		324	329	
(8) WELL TEST	rs: Minimum te	sting time is 1 h	our	Date started 04/26/	95 Comp	leted 06/	08/95	
(0) 11222 1201	manamum K	with the last to		(unbonded) Water Well				
[TD	Dailer	[37] A:-	Flowing	The second contract of	I performed on the const		tion or abou	ndonma
	Bailer	XAir	Artesian	of this well is in camplia	nce with Oregon water si	innly well con	struction sta	andards
Pump	Drawdown N/A	Drill stem at	Time	Materials used and inform	maties reported above are	e true to the be	est of my kn	owledg
Yield gal/min	N/A	Botton	l hr.	and belief.	14		. 10	2 ?
Yield gal/min			1 //I hrec	NILL	TH 1/3	WWC Num	-	د ــ
Yield gal/min	1'	428	24 hrs		V1 V/	Y	Date 7~	10-9
Yield gal/min		428	24 111.5	Signed Tous	P.U	1	Jale	
Yield gal/min	1'	Depth Artesian Flo		Signed (bonded) Water Well C	onstructor Certification		Jale 1	
Yield gal/min 1000 570	1' ter_53°			(bonded) Water Well C  I accept responsibility	for the construction, alte	i: eration, or aba	ndonment w	
Yield gal/min 1000 570  Temperature of war Was a water analys	1' ter _53° Y	Depth Artesian Flo	w Found	(bonded) Water Well C I accept responsibility performed on this well d	for the construction, alte	eration, or aba	ndonment w	ork
Yield gal/min 1000 570  Temperature of war Was a water analys Did any strata contri	ter 53° yain water not suitab	Depth Artesian Flo es By whom le for intended use	w Found? Too little	(bonded) Water Well C I accept responsibility performed on this well d performed during this tir	for the construction, alte uring the construction da ne is in compliance with	eration, or aba tes reported ab Oregon water	ndonment w	ork
Yield gal/min 1000 570  Temperature of war Was a water analys Did any strata conta	1' ter _53° Y	Depth Artesian Flo es By whom le for intended use	w Found? Too little	(bonded) Water Well C I accept responsibility performed on this well d	for the construction, alter uring the construction da ne is in compliance with This report is true to the	eration, or aba tes reported at Oregon water pest of my kno	ndonment woove. All we supply well weldge and	ork
Yield gal/min 1000 570  Temperature of war Was a water analys Did any strata contri	ter 53° yain water not suitab	Depth Artesian Flo es By whom le for intended use	w Found? Too little	(bonded) Water Well C I accept responsibility performed on this well d performed during this tir	for the construction, alter uring the construction da ne is in compliance with This report is true to the	eration, or aba tes reported ab Oregon water	ndonment woove. All we supply well welledge and	ork

## Beceined

#### STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

JUL 1 4 1995

77912 (START CARD) #\_

Instructions for completing t	his report are on the last page of thi					
1) OWNER:	Well Number		LOCAFION OF WELL by legal descr	iption:		
Name City of Bend			CountyLatitude	Longi	ude	
Address P O Box 431		07700	Township N or S Range			. WM.
City Bend	State OR Zip	97709	Section1/4	1	/4	
2) TYPE OF WORK		Tax Lot Lot Block				
	Alteration (repair/recondition) Aba	andonment	Street Address of Well (or nearest address)			
3) DRILL METHOD:			(10) STATIC WATER LEVEL:		C Average	
Rotary Air Rotary Mud	Cable Auger			Des	_	
Other			ft. below land surface.		e	
4) PROPOSED USE:			Artesian pressure lb. per squar (11) WATER BEARING ZONES:	e inch. Da	.c	
	Industrial Irrigation		(II) WATER BEARING ZONES.			•
	Livestock Other		Double to which water was first found			ž.
(5) BORE HOLE CONSTI		6	Depth at which water was first found			
	Yes No Depth of Completed We		From RECEIVE	Estimated E	low Pate	sw
	Type Amount		From RECTEIVE	Estillated I	low Rate	311
HOLE	SEAL		20.00.20	21		
Diameter From To M	faterial From To Sacks or	pounds	AUG 3 0 20			$\top$
			OWR			
4.77						
How was seal placed: Meti		D DE	(12) WELL LOG:			
	ior I'v I'b I'c I	D □E	Ground Elevation			
Backfill placed from ft.	to ft. Material		Material	From	To	SWL
Gravel placed from ft.			Leva red & brown w/some cinders	329	363	
(6) CASING/LINER:	to to Size of graver _		Pasalt grey hard	363	395	
	To Gauge Steel Plastic Welded	Threaded	Cinders red gravely	395	425	
_	Gauge Steel Flashe Welder		Cinders red w/tan punice & seams	425		
Casing:			of red lava		485	
			Leva grey pourous med	485	503	
		H	Lava broken weathered pourous	503	517	
Liner:		П	Lava grey hard	517	533	
			Lava pourous grey & brown	533	539	
Final location of shoe(s)			Lava brown pourous	539	547	
(7) PERFORATIONS/SCR	EENS:	Lava gray med hard	547	568		
	1 3		Lava grey & brown pourous broken	568	575	
	Material		Lava brown & grey broken pourous	575		
From To Slot	Tele/pipe	ng Liner	broken cavy	424	590	
T.OM SILCE INC			Lava brown & grey pourous soft	590	600	
			Red cinders and lava broken	600	850	
(8) WELL TESTS: Minim	um testing time is 1 hour		Date started Comp	leted		
	F	lowing	(unbonded) Water Well Constructor Certifica	ion:		
Pump Bailer		artesian	I certify that the work I performed on the con-	truction, alterat	ion, or aba	ndonme
Yield gal/min Drawdow	n Drill stem at	Time	of this well is in compliance with Oregon water s Materials used and information reported above a	e true to the be	st of my kn	nowledge
		1 hr.	and belief.		_	
			AH I VI	WWC Num		
			Signed /// PCS		ate 7-	10-9
Temperature of water	Depth Artesian Flow Found		(bonded) Water Well Constructor Certificatio	n:		
Was a water analysis done?	Yes By whom		I accept responsibility for the construction, al	eration, or abar	donment v	work
Did any strata contain water not	suitable for intended use?	o little	performed on this well during the construction d performed during this time is in compliance with	Oregon water:	supply well	1
Salty Muddy Odor			construction standards. This report is true to the	best of my know	wledge and	belief.
			77			- 4
Depth of strata:			A DAY	WWC Num		





August 26, 2021

Oregon Water Resources Department 725 NE Summer Street, Suite A Salem, OR 97301

RE: Application for a Permanent Water Right Transfer, City of Bend

Dear Kelly:

GSI Water Solutions, Inc. (GSI) is submitting the enclosed Application for a Permanent Water Right Transfer on behalf of the City of Bend (City). The City is requesting to add three existing wells (Bear Creek Well 1, Outback Well 4, and Outback Well 7) to Certificates 85412 and 85559.

The required application documents and fee of \$3,270 are enclosed.

Please contact me if you have any questions. You can reach me at 541-257-9005 or at omcmurtrey@gsiws.com

Sincerely,

Owen McMurtrey

Water Resources Consultant

Owen M. Murtrey

Enclosures:

Application for a Permanent Water Right Transfer, Certificates 85412 and 85559

Check in the amount of \$3,270