

**CLAIM OF
BENEFICIAL USE
for Groundwater Permits
claiming more than 0.1 cfs**



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

**A fee of \$230 must accompany this form for permits
with priority dates of July 9, 1987, or later.**

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at:
<https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.

If you have questions regarding the completion of this form, please call 503-979-9103.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see

<https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx>

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SECTION 1
GENERAL INFORMATION

1. File Information:

APPLICATION # G-12757	PERMIT # (IF APPLICABLE) G-12330	PERMIT AMENDMENT # (IF APPLICABLE) N/A
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2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME Avion Water Company, Inc. Attn: Jason Wick		PHONE NO. (541)382-5342	ADDITIONAL CONTACT NO.
ADDRESS 60813 Parrell Road			
CITY Bend	STATE OR	ZIP 97702	E-MAIL Jason@avionwater.com

If the current property owner is not the permit holder of record, it is recommended that an assignment be filed with the Department. **Each** permit holder of record must sign this form.

3. Permit holder of record (this may, or may not, be the current property owner):

PERMIT HOLDER OF RECORD Avion Water Company, Inc. Attn: Jason Wick		
ADDRESS 60813 Parrell Road		
CITY Bend	STATE OR	ZIP 97702

4. Date of Site Inspection:

8/8/2024

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	ASSOCIATION WITH THE PROJECT
Wade Webster	8/8/2024	Staff GIS Technician
Casey Witt	8/8/2024	Staff Electrician

6. County:

Deschutes

7. If any property described in the place of use of the permit is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

OWNER OF RECORD N/A		
ADDRESS		
CITY	STATE	ZIP

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Add additional tables for owners of record as needed

**SECTION 2
SIGNATURES**

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



CWRE NAME Trevor Grandy		PHONE NO. 971-200-8545	ADDITIONAL CONTACT NO.	
ADDRESS 147 SW Shevlin Hixon Dr. #201				
CITY Bend	STATE OR	ZIP 97702	E-MAIL tgrandy@gsiws.com	

Permit Holder of Record Signature or Acknowledgement

***Each** permit holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
	Adam Jackson	Vice President, Avion Water Company	10/3/24

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SECTION 3
CLAIM DESCRIPTION

1. Point of appropriation name or number:

POINT OF APPROPRIATION (POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
Well 1 – Odin Falls	DESC 2123	N/A

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

The well location is shown on the map in Attachment 1, and the well log is in Attachment 2.

2. Point of appropriation source, if indicated on permit:

POA NAME OR NUMBER	SOURCE BASIN LOCATED WITHIN	TRIBUTARY
Well 1 – Odin Falls	One well in the Deschutes River Basin	N/A

3. Developed use(s), period of use, and rate for each use:

POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
Well 1 – Odin Falls	Quasi- Municipal	N/A	Year-round	0.457 cfs
Total Quantity of Water Used				0.457 cfs

4. Provide a general narrative description of the distribution works. This description must trace the water system from each point of appropriation to the place of use:

Water is appropriated from the Odin Falls satellite system’s Well 1 using a submersible pump and conveyed directly to the adjacent 21.5k gallon concrete reservoir. The water is conveyed to the distribution system from the reservoir through three booster pumps that pressurize the approximately 11,780 feet of PVC pipe.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

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5. Variations:

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below.

YES

(e.g. “The permit allowed three points of appropriation. The water user only developed one of the points.” or “The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.”)

The location of Well 1 – Odin Falls (DESC 2123) varies slightly from that described in the Permit. The current location as presented in this COBU report is where the well has always been, this report simply provides a more accurate description of the actual well location.

6. Claim Summary:

POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
Well 1 - Odin Falls	0.457 cfs	1.05 cfs (471 gpm)	247 gpm (0.55 cfs)	Quasi- Municipal	N/A	N/A

A copy of Permit G-12230 is included in Attachment 3

SECTION 4
SYSTEM DESCRIPTION

Are there multiple POAs?

NO

If "YES" you will need to copy and complete a separate Section 4 for each POA.

POA Name or Number this section describes (only needed if there is more than one):

Well 1 – Odin Falls

A. Place of Use

1. Is the right for municipal use?

Yes, Quasi-Municipal

If "YES" the table below may be deleted.

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

See map in Attachment 1.

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

YES

If "NO", items 2 through 4 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well:

The access port is located in the top of the welded cap on the well on the WSW side of the cap.

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
-----------------	--------------	-------------	----------------------------------	---------------------------------	------------------------------	-----------------

See well log (DESC 2123) in Attachment 2

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

N/A

C. Groundwater Source Information (Sump)

1. Is the appropriation from a dug well (sump)?

NO

If "NO", items 2 through 4 relating to this section may be deleted.

D. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of appropriation to the place of use.

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1. Is a pump used?

YES

If "NO" items 2 through item 6 may be deleted.

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Red Jacket	Unknown	Unknown	Submersible	3-inch	3-inch

3. Motor Information:

MANUFACTURER	HORSEPOWER
Franklin Electric	30 hp

4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *If a well, the water level during pumping	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
30 hp	2.17	186 ft	10 feet	1.05 cfs

5. Provide pump calculations:

$Q_{\text{pump}} = (\text{Hp})(\text{efficiency}) / (\text{lift} + \text{psi head})$
 Turbine efficiency = 7.04 ft⁴ lb/sec/Hp (figure provided by OWRD)
 (2.17 psi)(2.54 ft of head/psi) = 5.52 ft of head
 (30)(7.04) / (186 + 10 + 5.52) = **1.05 cfs**
 1.05 cfs x 448.8 gpm/cfs = **471 gpm**
 (See Attachment 4 pump capacity calculation sheets)

6. Measured Pump Capacity (using meter if meter was present and system was operating):

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
Avion manually takes flow measurements with a Greyline Instruments PTFM 1.0 Ultrasonic Flow Meter two times per year during high and low flow periods to measure the pump discharge rates and input the discharge rates into an AVEVA InTouch HMI software that tracks pump on/off status to calculate pumping volumes based on pump run times.			247 gpm (0.55 cfs)

Reminder: For pump calculations use the reference information at the end of this document.

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7. Is the distribution system piped?

YES OCT 07 2024

If "NO" items 8 through item 13 may be deleted.

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8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
2 to 8 inches	Appr. 11,780 ft	PVC	Buried

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
¾-inch to 1½-inch domestic hookups with meters	Varies	PVC	Buried

E. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)?

YES

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a: Storage Tank
 Bulge in System / Reservoir

YES

NO

Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Concrete	21,500 gal	Above ground

F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

NO

If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

NO

If "NO", items 2 through 4 relating to this section may be deleted.

H. Additional notes or comments related to the system:

None

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SECTION 5 CONDITIONS

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or permit extension order:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	3/18/1996		
BEGIN CONSTRUCTION (A)	3/18/1997	3/19/1983	The Odin Falls Well 1 was drilled in 1979.
COMPLETE CONSTRUCTION (B)	10/1/2023	9/30/2023	Avion requested and received permit extensions in a timely fashion while completing construction and service connections to the distribution system.
COMPLETE APPLICATION OF WATER (C)	10/1/2023	9/30/2023	Avion requested and received permit extensions in a timely fashion while continuously working to put the authorized rate to beneficial use across the authorized POU prior to the C-date of October 1, 2023.

* MUST BE WITHIN PERIOD BETWEEN PERMIT, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)?

YES

If "NO", items a and b relating to this section may be deleted.

a. Did the Extension Final Order require the submittal of Progress Reports?

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NO

If "NO", item b relating to this section may be deleted.

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Extension final orders are provided in Attachment 5.

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3. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement?

NO

If "NO", items b through d relating to this section may be deleted.

4. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements?

NO

If "NO", items b through e relating to this section may be deleted.

5. Pump Test:

a. Did the permit require the submittal of a pump test? **YES**

Ground water permits with priority dates on or after **December 20, 1988**, require the submittal of a pump test prior to issuance of a certificate. In some cases, the permit holder may qualify for a multiple well exemption or an unreasonable burden exemption.

For additional information regarding pump tests see:

<https://www.oregon.gov/OWRD/programs/GWWL/GW/Pages/PumpTestProgram.aspx>

If "NO", items b through e relating to this section may be deleted.

b. Has the pump test been previously submitted to the Department? **NO**

c. Is the pump test attached to this claim? **NO**

d. Has the pump test been approved by the Department? **NO**

e. Has a pump test exemption been approved by the Department? **NO^**

**** Claims will not be reviewed until a pump test or exemption has been approved by the Department**

^ Pump Test Exemption Request Form submitted to OWRD and included in Attachment 8

6. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? **YES**

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

b. Has a meter been installed? **NO**

c. Meter Information

If a meter has been installed, items d through f relating to this section may be deleted.

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? **YES**

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

NAME	TITLE	APPROXIMATE DATE
Kyle Gorman	Region Manager – S.C.R.	6/9/2006

Avion uses a measurement system approved by the Department in June 2006. A description of the measurement system can be found in item f. below. The approval letter can be found in Attachment 6.

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f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED
*Avion runs a radio linked system that reports real-time pumping on/off status that is linked to an AVEVA InTouch HMI software program (previously Wonderware, purchased by AVEVA) allowing electronic data logging and systems operations. Avion manually takes flow measurements with a Greyline Instruments PTFM 1.0 Ultrasonic Flow Meter two times per year during high and input the discharge rates into the AVEVA InTouch HMI software to calculate pumping volumes based on pump run times.	Working	

7. Recording and reporting conditions:

a. Is the water user required to report the water use to the Department? **NO**

If "NO", item b relating to this section may be deleted.

8. Other conditions required by permit, permit amendment final order, or extension final order:

a. Were there special well construction standards? **NO**

b. Was submittal of a ground water monitoring plan required? **NO**

c. Was submittal of a water management and conservation plan required? **NO**

d. Was a Well Identification Number (Well ID tag) assigned and attached to the well? **NO**

WELL ID #	DATE ATTACHED TO WELL
N/A	

e. Other conditions? **NO**

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

N/A

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SECTION 6
ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
Attachment 1	POA and POU Map and System Overview Map
Attachment 2	Well Log (DESC 2123)
Attachment 3	Permit G-12330
Attachment 4	Theoretical Pumping Rate Calculations
Attachment 5	Extension of Time Final Order (2005 & 2015)
Attachment 6	OWRD approval letter of Avion's water measuring and recording program
Attachment 7	Documentation of Beneficial Use
Attachment 8	Copy of Pump Test Exemption Request

SECTION 7
CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

Avion is a large quasi-municipal water supplier with a good understanding of their components and component locations. During the site inspection the CWRE did not independently survey the system component locations. The COBU map was created by GSI Water Solutions, Inc. mapping staff using Geographic Information System (GIS) software and spatial datasets provided by Avion. The georeferenced data sources used in creating the COBU map are described on the map. Additional data and information specific to the permittee's wells, place of use, and the permittee's use of water under the water right described in this Claim of Beneficial Use report were obtained from the permittee.

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Map Checklist

Please be sure that the map you submit includes ALL the items listed below.

(Reminder: Incomplete maps and/or claims may be returned.)

- Map on polyester film
- Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- Township, Range, Section, Donation Land Claims, and Government Lots
- N/A** If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- N/A** Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
- Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- Point(s) of diversion or appropriation (illustrated and coordinates)
- Tax lot boundaries and numbers
- Source illustrated if surface water
- Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- Application and permit number or transfer number
- North arrow
- Legend
- CWRE stamp and signature

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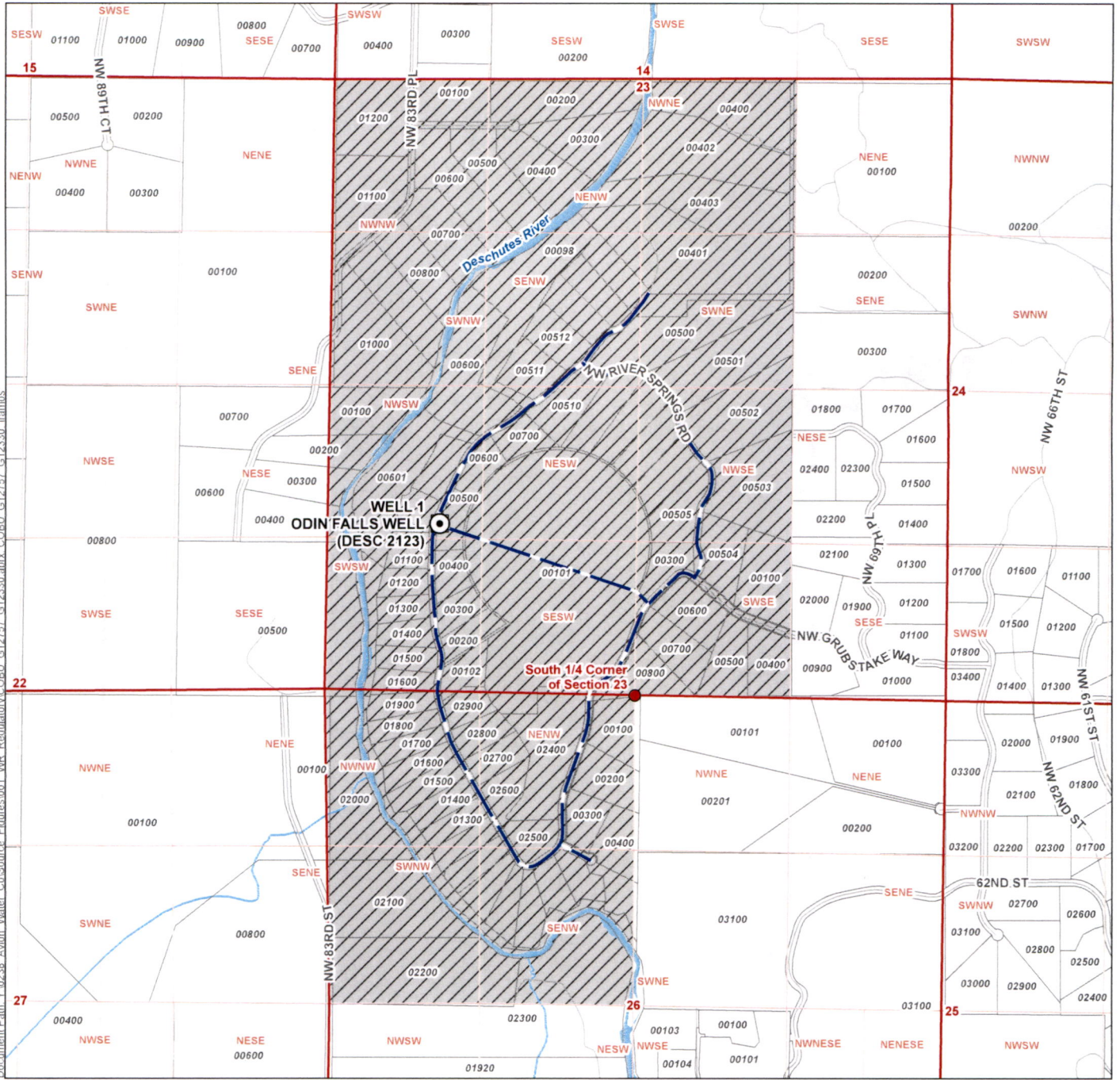
3500
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Attachment 1

Claim of Beneficial Use Map

Claim of Beneficial Use for Permit G-12330 – Avion Water Company, Inc.

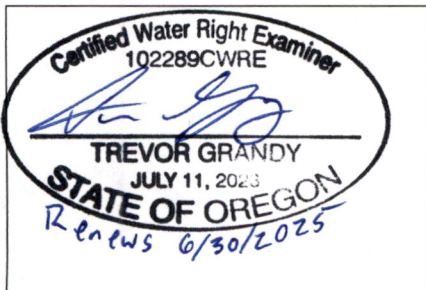


LEGEND

- Point of Diversion (POD)
- Reservoir
- Conveyance Line
- Place of Use (POU)
- All Other Features
- Tax Lot
- Major Road
- Watercourse

Claim of Beneficial Use Map
Avion Water Company, Inc.
Application G-12757, Permit G-12330
 Township 14 South, Range 12 East (W.M.)

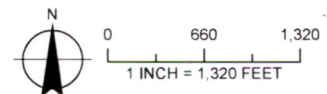
CERTIFIED WATER RIGHTS EXAMINER STAMP



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LOCATION DESCRIPTION

Point of Diversion
 Located 1,476 feet North and 1,707 feet West from the S 1/4 corner of Section 23, Township 14 South, Range 12 East (W.M.)



DISCLAIMER
 This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.
 Date: June 20, 2024
 Data Sources: BLM, ESRI, OWRD, USGS



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Attachment 2

OWRD Water Well Report – DESC 2123

Claim of Beneficial Use for Permit G-12330 – Avion Water Company, Inc.

are to be filed with the
WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion.

DESC
2123

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

State Well No. 145/12E-23
State Permit No. _____

(Do not write above this line)

(1) OWNER:

Name 2- M Investments
Address 538 West Highland Ave.
Redmond, Oregon 97756

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

1 Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

3" Diam. from +1 ft. to 25 1/2 ft. Threaded Welded
Gage •250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? Yes No.

Type of perforator used _____

Size of perforations in. by in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? Yes No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom?
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" Blow Test- "250 G.P.M. " " "
" " " " " "
" 11 gal./min. with 0 ft. drawdown after 1 hrs.
Artesian flow _____ g.p.m.
Temperature of water 49* Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement
Well sealed from land surface to 25 1/2
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal 12 sacks
How was cement grout placed? pressure grouted

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Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? Yes No
Type of water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Deschutes Driller's well number _____
1/4 1/4 Section 23 T. 14S R. 12E W.M.
Bearing and distance from section or subdivision corner
Lot 5- Blk 1, Odin Falls Ranch

(11) WATER LEVEL: Completed well.

Depth at which water was first found 291 ft.
Static level 200 ft. below land surface. Date 9-26-79
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8"

Depth drilled 320 ft. Depth of completed well 320 ft.

Formation: Describe color, texture, grain size and structure of materials; 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-bearing strata.

MATERIAL	From	To	SWL
Sandy Top Soil	0	2	
Lava	2	3	
Broken Lava	3	4	
Lava	4	39	
Red Cinders	39	50	
Lava	50	53	
Brown Sandstone Conglomerate	53	60	
Lava	60	69	
Broken Lava	69	70	
Lava	70	112	
Red Cinder Conglomerate	112	115	
Brown Sandstone	115	165	
Broken Lava & Red Cinder Cong.	165	198	
Lava, Hard	198	280	
Brown Conglomerate	280	291	
Brown Sandstone & Red Cinders	291	318	
Lava	318	320	

Work started 9-25 19 79 Completed 9-26 19 79
Date well drilling machine moved off of well 9-26 19 79

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] William D. ... Date 9-27, 19 79
(Drilling Machine Operator)

Drilling Machine Operator's License No. 803

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.

Name Orvail Buckner Well Drilling, Inc.
(Person, firm or corporation) (Type or print)

Address 1686 N.E. Negus Way, Redmond, Ore. 97756

[Signed] Orvail Buckner
(Water Well Contractor)

Contractor's License No. 608 Date 9-27, 19 79

STATE OF OREGON

COUNTY OF DESCHUTES

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

AVION WATER COMPANY
60813 PARRELL RD
BEND, OREGON 97702

(503)382-5342

The specific limits for the use are listed below along with conditions of use.

APPLICATION FILE NUMBER: G-12757

SOURCE OF WATER: ONE WELL IN DESCHUTES RIVER BASIN

PURPOSE OR USE: QUASI-MUNICIPAL

Rate of use: 0.457 CUBIC FOOT PER SECOND

Period of allowed use: YEAR ROUND

DATE OF PRIORITY: January 15, 1992

POINT OF DIVERSION LOCATION: NW 1/4 SW 1/4, SECTION 23, T14S, R12E, W.M.; 1473 FEET NORTH AND 1711 FEET WEST FROM THE S 1/4 CORNER OF SECTION 23

THE PLACE OF USE IS LOCATED AS FOLLOWS:

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NW 1/4 NE 1/4
SW 1/4 NE 1/4
NE 1/4 NW 1/4
NW 1/4 NW 1/4
SW 1/4 NW 1/4
SE 1/4 NW 1/4
NE 1/4 SW 1/4
NW 1/4 SW 1/4
SW 1/4 SW 1/4
SE 1/4 SW 1/4
NW 1/4 SE 1/4
SW 1/4 SE 1/4

SECTION 23

NE 1/4 NW 1/4
NW 1/4 NW 1/4
SW 1/4 NW 1/4
SE 1/4 NW 1/4

SECTION 26

TOWNSHIP 14 SOUTH, RANGE 12 EAST, W.M.

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Attachment 3
Permit G-12330

Claim of Beneficial Use for Permit G-12330 – Avion Water Company, Inc.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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Use of water under authority of this permit may be regulated if analysis of data available after the permit is issued discloses that the appropriation will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife in effect as of the priority date of the right or as those quantities may be subsequently reduced.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, 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.

STANDARD CONDITIONS

The wells shall be constructed 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 well at all times.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

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

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

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the 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.

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

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance, and shall be completed on or before October 1, 1998. Complete application of the water to the use shall be made on or before October 1, 1999.

Issued March 18, 1996



for Water Resources Department
Martha O. Pagel
Director

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Attachment 4

Theoretical Pumping Calculations

Claim of Beneficial Use for Permit G-12330 – Avion Water Company, Inc.

Pump Capacity Calculation Sheet

using Department designed formula:

Odin Falls (DESC 2123)

$$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 30
Efficiency = 7.04
Lift = 196
PSI = 2.17

Results Calculated

(hp)(efficiency) = 211.2
Head based on psi = 5.5
Total dynamic head = 201.5
(head + lift)

Pump Capacity = 1.05 feet per second

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Attachment 5
2005 & 2015 Extension of Time Final Orders
Claim of Beneficial Use for Permit G-12330 – Avion Water Company, Inc.

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-12757

Final Order
Extension of Time for Permit Number G-12330

Appeal Rights

This is a final order in other than 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.

Application History

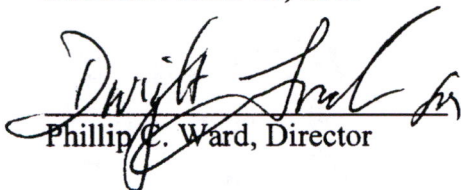
On November 15, 1999, Avion Water Company, Inc. submitted an application to the Department for an extension of time for permit number G-12330. The Department issued permit number G-12330 on March 18, 1996. The permit called for completion of construction of the water development project by October 1, 1998, and complete application of water to the full beneficial use by October 1, 1999. In accordance with OAR 690-315-0050(2), on April 26, 2005, the Department issued a Proposed Final Order proposing to extend the time to complete construction of the water development project to October 1, 2008, and the time to fully apply water to beneficial use to October 1, 2013. The protest period closed June 10, 2005, in accordance with OAR 690-315-0060(1). No protest was filed.

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.230, 537.248, 537.630, 539.010(5) and/or OAR 690-315-0080(2).

Order

The extension of time for Application Number G-12757, Permit Number G-12330, therefore, is approved. The deadline for completing construction is extended to October 1, 2008. The deadline for applying water to full beneficial use is extended to October 1, 2013.

DATED: June 13, 2005


Phillip C. Ward, Director

Final Order: Permit #G-12330

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Page 1

If you have any questions about statements contained in this document, please contact Lisa Juul at (503) 986-0808.

If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900.

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Oregon Water Resources Department
Water Right Services Division

Water Rights Application
Number G-12757

Final Order
Extension of Time for Permit Number G-12330
Permit Holder: Avion Water Company Inc.

Permit Information

Application File G-12757 / Permit G-12330

Basin 5 – Deschutes Basin / Watermaster District 11

Date of Priority: January 15, 1992

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Authorized Use of Water

Source of Water: One Well within the Deschutes River Basin
Purpose or Use: Quasi-Municipal
Maximum Rate: 0.457 Cubic Feet per Second (cfs)

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**This Extension of Time request is being processed in accordance with
Oregon Revised Statute 537.630 and 539.010(5), and
Oregon Administrative Rule Chapter 690, Division 315**

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request 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 file 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.

Application History

Permit G-12330 was issued by the Department on March 18, 1996. The permit called for completion of construction by October 1, 1998, and complete application of water to beneficial use by October 1, 1999. The most recent extension authorized completion of construction and complete application of water to beneficial use by October 1, 2013. On July 28, 2014, Avion

Water Company Inc. submitted an application to the Department for an extension of time for Permit G-12330. In accordance with OAR 690-315-0050(2), on December 9, 2014, the Department issued a Proposed Final Order proposing to extend the time to complete construction to October 1, 2023 and to extend the time to apply water to full beneficial use to October 1, 2023. The protest period closed January 23, 2015, in accordance with OAR 690-315-0060(1). No protest was filed.

FINDINGS OF FACT

The Department adopts and incorporates by reference the findings of fact in the Proposed Final Order dated December 9, 2014.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to no additional conditions.

CONCLUSION OF LAW

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0080(3).

ORDER

The extension of time for Application G-12757, Permit G-12330, therefore, is approved. The deadline for completing construction is extended from October 1, 2013 to October 1, 2023. The deadline for applying water to full beneficial use within the terms and conditions of the permit is extended from October 1, 2013 to October 1, 2023.

DATED: January 30, 2015



Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

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If you have any questions about statements contained in this document, please contact Mabelle A Bamberger at (503) 986-0802.

If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900.

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Attachment 6

OWRD Approval Letter for Avion's Water Measuring and Recording Program

Claim of Beneficial Use for Permit G-12330 - Avion Water Company, Inc.



Oregon

Theodore R. Kulonkoski, Governor

June 9, 2006

SOUTH CENTRAL REGION
Watermaster District 11
1128 NW Harriman
Bend, OR 97701
Ph: (541) 388-6669
Fax: (541) 388-5101
www.wrd.state.or.us

Jason Wick
Avion Water Company
60813 Parrell Rd
Bend, OR 97702

RE: Water use measuring

Dear Jason:

Thank you for the opportunity to review your company's water management system today. As I understand Avion Water Co. (Avion) has undergone several iterations of improved water use monitoring since 1989. Currently, the system in place is a radio linked system of reporting actual pumping time on a 10 to 15 second interval which was as I understand installed sometime in 1998. This information is fed into a software program (Wonderware) that allows the logging of information to be archived via a nightly tape back and hard copy. In addition to these records, Avion manually takes flow readings via a GF-Signet flow meter two times per year during high flow periods and low flow periods to calibrate your amperage use vs. pump discharge. This is very similar to how the USGS and OWRD measuring and monitoring streams with gaging stations.

It is my understanding that any point you in time, you have the ability to determine how much water is being pumped instantaneously as well as calculating monthly usage, or any other time frame by either viewing on screen or by hard copy records.

This system in place seems very adequate in identifying Avion's pumping records and satisfies the needs of the Department for water use monitoring.

Thanks again for the opportunity to visit and look at your system. If there is anything else, that I'm able to help with, please let me know.

Sincerely,

Kyle Gorman
Region Manager

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Attachment 7

Documentation of Beneficial Use

Claim of Beneficial Use for Permit G-12330 – Avion Water Company, Inc.

Documentation of Beneficial Use
Odin Falls 1 - Permit G-9982
Avion Water Use - Water Year 2018

Water Year	Report ID	Facility	Units	2017			2018								
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2018	19329	CINDER BUTTE WELL 1	C	58,100	31,690	16,110	0	31,500	30,400	0	208,700	134,900	220,800	212,900	156,400
2018	19330	CINDER BUTTE WELL 2	C	0	0	0	0	0	0	0	0	0	0	0	0
2018	19331	WELL R / CONESTOGA	G	0	0	0	0	0	0	0	0	0	0	0	0
2018	19534	WILD RIVER SOUTH	G	232,600	161,850	159,875	148,875	134,900	158,500	191,800	409,225	581,775	211,750	124,775	495,125
2018	19546	ODIN FALLS	C	119,100	32,200	19,400	0	32,900	22,500	307	327,493	250,600	390,200	357,000	270,100
2018	19547	TETHEROW CROSSING / ZAMIA	C	0	0	0	0	0	0	0	0	0	0	0	0
2018	66028	S REDMOND HEIGHTS	C	127,100	62,180	59,700	0	62,364	96,936	117	483,683	343,824	559,176	477,555	359,845
2018	66391	TETHEROW CROSSING	G	6,661,050	3,988,600	4,052,400	431,802	456,918	529,299	948,129	1,773,093	2,000,103	2,795,466	2,416,518	1,811,181
2018	66869	SADDLEBACK 1	C	0	0	0	0	0	0	0	0	0	0	0	0
2018	66870	SADDLEBACK 2	C	163,481	71,400	62,470	60	72,100	96,440	94,300	281,200	411,191	539,221	11,814	0
2018	66905	HIGHLAND WELL 1	G	1,915,914	1,615,474	1,540,161	199,794	231,148	253,901	361,959	915,291	715,650	1,049,022	859,989	581,646
2018	66963	DESCHUTES R RANCH WELL	C	32,400	14,000	700	0	13,347	14,153	0	82,100	59,800	0	190,500	0
2018	66964	DESERT SPRINGS WELL	G	676,935	332,325	458,640	329,571	275,418	182,952	225,423	1,251,261	1,636,965	2,228,886	1,967,130	1,217,304
2018	67977	WILD RIVER NORTH	G	164,528	130,424	127,736	146,888	84,840	101,304	145,320	391,552	412,776	1,185,240	1,159,760	387,576

Notes:

G = gallons
 C = cubic feet

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Attachment 8

Copy of Pump Test Exemption Form

Claim of Beneficial Use for Permit G-12330 – Avion Water Company, Inc.



**PUMP TEST UNREASONABLE BURDEN
EXEMPTION REQUEST FORM**

OWNER NAME/BUSINESS NAME: Avion Water Company, Inc.		PHONE No.: 541-382-5342	ADDITIONAL CONTACT No.:
ADDRESS: 60813 Parrell Road			
CITY: Bend	STATE: OR	ZIP: 97702	E-MAIL: Adam@avionwater.com

If there is a reason why a pump test cannot be performed on a well, the owner may request from the Director an exemption from the pump test requirement. Requests shall be in writing and include the reason why a pump test cannot be performed. Exemptions, or conditioned exemptions, shall be granted if the reasons are found to valid and eliminating the problem would place an unreasonable burden on the well owner. Exemptions shall be granted for public water supply wells if pump testing will cause interruption of service to customers. OAR 690-217-0015(3).

1. List each well and associated water right(s) for which you are requesting an exemption. If a well is listed on more than one water right, be sure to include them all here. If additional space is needed, please attach another form. If available, please attach all water well reports (i.e. well logs) and a map showing the locations of all wells listed on this form.

	WELL LOG # (EX. MARI 99999)	WELL TAG # (EX. L-999999)	WELL NAME OR #	APPLICATION	PERMIT	TRANSFER
a	DESC 2123	L-	Odin Falls Well 1	G- 12757	G- 12330	T- N/A
b		L-		G-	G-	T-
c		L-		G-	G-	T-
d		L-		G-	G-	T-
e		L-		G-	G-	T-

(CONTINUED)

	TWP (EX. 25S)	RNG (EX. 31E)	SEC (EX. 12)	QQ (EX. SE/SW)	SURVEYED LOCATION (EX. 100 ft N & 735 ft E fr SE cor, sec 5)	LATITUDE (EX. 44.94473859)	LONGITUDE (EX. -123.02787000)
a	14 S	12 E	23	NWSW	1,476 ft N & 1,707 ft W fr S 1/4 cor, of sec 23		
b							
c							
d							
e							

2. Please explain why the test cannot be performed:

Avion Water Company, Inc. (Avion) operates the small quasi-municipal water system for the Odin Falls sub-development. To complete the pump test, Avion would need to interrupt service to customers for the 16-hour idle period prior to the 4-hour pump test. Additionally, the water system includes a 21,500 gallon concrete reservoir which is too small to contain the total volume of the 250 gallons of water per minute the Odin Falls Well produces over 4 hours. Therefore, Avion is requesting an exemption from the pump test requirement due to unreasonable burden.

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I hereby certify that the well(s) requested for exemption(s) are under my ownership.

SIGNATURE: _____ DATE: 10/3/24



September 30, 2024

Oregon Water Resources Department
ATTN: Mr. Gerry Clark
725 Summer Street NE, Suite A
Salem, OR 97301

Subject: Claim of Beneficial Use for Permit G-12330 – Application G-12757
Avion Water Company, Inc.

Dear Gerry:

This Claim of Beneficial Use (COBU) is submitted on behalf of Avion Water Company, Inc. (Avion) for Permit G-12330. The water user has fully developed the permit.

If you have any questions regarding the enclosed COBU, please call me at (971) 200-8545.

Sincerely,

A handwritten signature in blue ink, appearing to read "T. Grandy", is written over a light blue circular stamp.

Trevor Grandy, RG, CWRE
GSI Water Solutions, Inc.

Enclosures: Claim of Beneficial Use for Permit G-12330
Check in the amount of \$230

CC: Adam Jackson, Avion Water Company, Inc.

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