

Checklist for Claims of Beneficial Use Received at CSG Counter

Application # <u>G-11581</u>	WRD Reviewer <u>Cory M.</u>
Transfer #	
Date Received <u>3/5/2021</u>	
CWRE Name <u>Darryl Anderson</u>	

Priority Date: 9/11/1986
Fees Required:

NO A fee of \$200 must accompany this form for permits with priority dates of July 9, 1987, or later.

YES **NO** A fee of \$200 must accompany this form for any transfers including a water right with a priority date of July 9, 1987, or later.

Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

Fill in App or Transfer Number

Map Review:

- Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
- Application & permit #; or transfer # (OAR 690-014-0100(1))
- Disclaimer (OAR 690-014-0170(5))
- North arrow (OAR 690-310-0050(2)(c))
- CWRE stamp and signature (OAR 690-014 & 310-0050)
- Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
- Township, range, section, and tax lot numbers (OAR 690-310-0050(4))

MONEY SLIP

DATE:		RECEIPT #:	
RECEIVED FROM:		APPLICATION PERMIT TRANSFER	
CASH	CHECK #	OTHER (IDENTIFY)	TOTAL RECD \$
0083 TREASURY 4178 MISC CASH ACCT.			
0407	COPIES		\$
	OTHER (IDENTIFY)		\$
0243 Instream Lease		0244 Multi Water Right Perm	0245 Cons Water
0083 TREASURY 4378 WRD OPERATING ACCT.			
MISCELLANEOUS			
0407	COPY & TIME FEES	4611	\$
0410	RESEARCH FEES		\$
0408	MISC REVENUE (IDENTIFY)		\$
TC182	DEPOSIT (LAB IDENTIFY)		\$
0240	EXTENSION OF TIME		\$
WATER RIGHTS			
0201	SURFACE WATER	EXAM FEE	0202 RECORD FEE
0203	GROUND WATER		0204
0205	TRANSFER		
WELL CONSTRUCTION			
0218	WELL DRILL CONSTRUCTOR	EXAM FEE	0219 RECORD FEE
0200	LANDOWNER'S PERMIT		0220
	OTHER (IDENTIFY)	COBU	\$200.00
0087 TREASURY 0447 HYDROELECTRIC			
0223	POWER LICENSE FEE (FWWRD)	LC# NUMBER	\$
0231	HYDRO LICENSE FEE (FWWRD)		\$
HYDRO APPLICATION			
			\$

Report Review:

- On form provided by the Department (OAR 690-014-0100(1))
- Application & permit #; or transfer # (OAR 690-014)
- Ownership information (OAR 690-014)
- Date of survey (OAR 690-014)
- Person interviewed (OAR 690-014)
- County (OAR 690-014)
- CWRE stamp and signature (OAR 690-014-0100)
- Signature(s) of all permittee of transfer holder (OAR 690-014-0100)

Groundwater File Review:

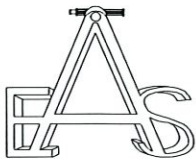
1986 priority

Pump Test Required? YES **NO** Pump Test Submitted? YES **NO***

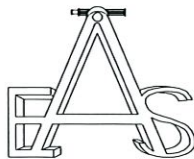
*If no, include pump test flyer w/acknowledgment letter

RETURN TO APPLICANT – LETTER ATTACHED

ANDERSON
ENGINEERING & SURVEYING, INC.



PO Box 28
17681 Hwy 395
Lakeview, Oregon 97630
541-947-4407
541-947-2321 FAX



**TRANSMITTAL
LETTER**

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Oregon Water Resources Department

725 Summer Street NE

Suite A

Salem, Oregon 97301-1266

DATE: 3/2/2021	JOB NO: 2021-016
ATTENTION:	
RE: CVDWSD Final Proof	

WE ARE SENDING YOU ATTACHED:

PRINTS PLANS

OTHER _____

COPIES	DATE	DESCRIPTION
1		Claim of Beneficial Use Site Report Permit G-10790
1		Mylar Map Claim of Beneficial Use Map for Christmas Valley Domestic Water Supply District Permit G-10790

THESE ARE TRANSMITTED AS CHECKED BELOW:

FOR APPROVAL FOR REVIEW AND COMMENT

AS REQUESTED FOR SIGNATURE

OTHER _____

REMARKS _____

COPY TO _____

SIGNED Barb Thompson

If enclosures are not as noted, please notify us at once

**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

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**A fee of \$200 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 503-986-0900 and ask for the Certificate Section.

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>

SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION # G-11581	PERMIT # (IF APPLICABLE) G-10790	PERMIT AMENDMENT # (IF APPLICABLE) T-
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2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME Christmas Valley Domestic Water District		PHONE NO. 541-576-2090	ADDITIONAL CONTACT NO.	
ADDRESS 87379 Holly Lane				
CITY Christmas Valley	STATE OR	ZIP 97641	E-MAIL cvwater@internetextension.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 Christmas Valley Domestic Water District				
ADDRESS 87379 Holly Lane				
CITY Christmas Valley	STATE OR	ZIP 97641		

ADDITIONAL PERMIT HOLDER OF RECORD				
ADDRESS				
CITY	STATE	ZIP		

4. Date of Site Inspection:

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Erica Anderson	2/9/2021	System Operator

6. County:

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		

Add additional tables for owners of record as needed

**SECTION 2
SIGNATURES**

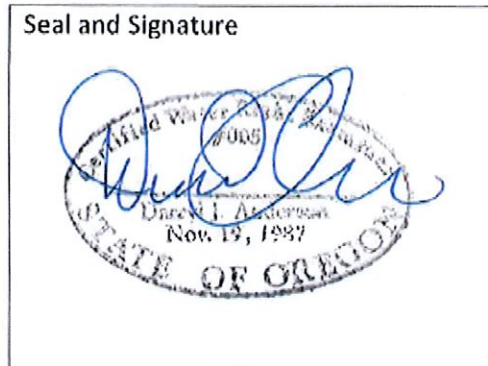
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CWRE Statement, Seal and Signature

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



CWRE NAME Darryl Anderson		PHONE NO. 541-947-4407	ADDITIONAL CONTACT NO.	
ADDRESS 17681 HWY 395				
CITY Lakeview	STATE OR	ZIP 97630	E-MAIL darryla@andersonengineering.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
	Erica Anderson	Operator / Manager	2/9/2021

**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 5	LAKE 995	

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

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

POA NAME OR NUMBER	SOURCE BASIN LOCATED WITHIN	TRIBUTARY
Well 5	Fort Rock Valley 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 5	Quasi-Municipal	N/A	Year Round	204.15 GPM
Total Quantity of Water Used				965,691,853 G

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 pumped from Well 5 into distribution mainline where it is routed throughout Christmas Valley's system. Distribution lines are a collection of 8", 6", and 4", predominantly made out of iron.

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).

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. **NO**

(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.")

N/A

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 5	0.97 cfs	0.97 cfs	0.056 cfs	Quasi- Municipal	N/A	N/A

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**SECTION 4
SYSTEM DESCRIPTION**

Are there multiple POAs?

A. Place of Use

1. Is the right for municipal use? YES

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:

There is an 1 ¼" access port at the well head through which a Power Equipment E-Tape is run

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
10"	260'	317'	1/21/1982	N/A	Christmas Valley Domestic Water Supply District	Lyle Adams

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.

Well log attached at the bottom of this COBU

C. Groundwater Source Information (Sump)

1. Is the appropriation from a dug well (sump)? NO

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.

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
Goulds	7CHC-3-STG	MG3660	Submersible	4"	6"

3. Motor Information:

MANUFACTURER	HORSEPOWER
Hitachi Submersible	40

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)
40	Variable	Variable	Variable	Variable

5. Provide pump calculations:

Pump is manually operated based on visual inspection of the staff gauge at the storage tank. This is the secondary well for the system and is generally operating in tandem with Well 4 at all times. Currently the well pump is being pulled for repairs.

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)
85111.0 cubic feet	85127.9 cubic feet	5 hours	0.056 cfs

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

7. Is the distribution system piped?

YES

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

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
8", 6", 4"	27 miles	Iron	Buried
8", 6", 4"	9 miles	PVC	Buried

9. Lateral Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
Variable	Unknown as it is home owner maintained	Unknown as it is home owner maintained	Buried

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
N/A					

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)
N/A					

12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION
N/A					

13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A				

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

YES

Bulge in System / Reservoir

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
Metal	500,000	Above Ground

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
N/A		

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.

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NO

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?

H. Additional notes or comments related to the system:

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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	5/28/1988		
BEGIN CONSTRUCTION (A)		1/14/1982	
COMPLETE CONSTRUCTION (B)		1/21/1982	
COMPLETE APPLICATION OF WATER (C)	10/1/2020	Pending	Hired AES to complete this application

* 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? NO

3. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement? NO

4. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements? NO

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? YES

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

- d. Has the pump test been approved by the Department? YES
- 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**

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? YES

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well 5 Meter	Neptune		Working	850446 Cubic Feet	2009

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

7. Recording and reporting conditions:

- a. Is the water user required to report the water use to the Department? YES

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

- b. Have the reports been submitted? YES

If the reports have not been submitted, attach a copy of the reports if available.

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? YES
- d. Was a Well Identification Number (Well ID tag) assigned and attached to the well? YES

WELL ID #	DATE ATTACHED TO WELL
Lake 995	1/26/1982

- 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):

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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	Original Well Log
Attachment 2	FO Extension Letter Issued
Attachment 3	Well Permit

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.

Survey was completed with RTK GPS. Section tie in was to Lake County Surveyor monument 400' North and 50' West from center ¼ corner, Section 13, Township 27 South, Range 17 East, W.M.

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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.)

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

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Attachment 1

WATER WELL REPORT
STATE OF OREGON

Lake
995

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State Well No. 22/17E-1362
JAN 24 1982

WATER RESOURCES DEPARTMENT
SALEM, OREGON

(1) OWNER: Christmas Va. Domestic
Name water supply District
Address P.O. Box 142 Christmas Va.
City 97638 State Ore.

(2) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: Rotary Air Driven Rotary Mud Dug Bored
(4) PROPOSED USE (check): Domestic Industrial Municipal Irrigation Test Well Other Thermal: Withdrawal Refajection

(5) CASING INSTALLED: Steel Plastic Threaded Welded
.....1.0" Diam. from0" ft. to260 ft. Gauge2.50
....." Diam. from ft. to ft. Gauge

LINER INSTALLED:
....." Diam. from ft. to ft. Gauge

(6) PERFORATIONS: Perforated? Yes No
Type of perforator used

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

(7) SCREENS: Well screen installed? Yes No
Manufacturer's Name

Type	Model No.
.....
Diam.	Slot Size
.....
Diam.	Slot Size
.....

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom?
..... gal/min with ft. drawdown after hrs.
Air test 900 gal/min with drill stem at 317 ft. 1 hrs.
Bailer test gal/min with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards: Yes No XXXX
Well seal—Material used cement
Well sealed from land surface to 260 ft.
Diameter of well bore to bottom of seal 1.3 in.
Diameter of well bore below seal 1.0 in.
Number of sacks of cement used in well seal 111 sacks
How was cement grout placed? pressure grouted
Was pump installed? no Type HP Depth ft.
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 LAKE Driller's well number 171
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 13 T. 27S R. 17E W.M.
Tax Lot # unit 2 Lot 3 Blk 3 Subdivision
Address at well location:

(11) WATER LEVEL: Completed well.
Depth at which water was first found 276 ft.
Static level 2.5 ft. below land surface. Date 1/21/82
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 1.0
Depth drilled 317 ft. Depth of completed well 317 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
brown top soil	1	3	
brown clay/ brown sand	3	12	
diatomaceous earth	12	21	
green clay	21	49	
white pumy/water bearing	49	50	2.5
green clay	50	242	
black sand/ W/B	242	253	2.5
gray basalt-hard	253	276	
gray basalt broken w/b	276	280	3.5
gray basalt - hard	280	282	
basalt broken porous w/b	282	291	2.5
gray basalt- hard	291	308	
basalt broken porous w/b	308	315	2.5
gray basalt broken w/b	315	317	2.5

Work started 1/14/82 19 Completed 1/21/82 19
Date well drilling machine moved off of well 1/23 19 82

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) Lyle Adams Date Jan 21 1982
(Drilling Machine Operator)
Drilling Machine Operator's License No. 1302

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 Lyle Adams (Person, firm or corporation) (Type or print)
Address Star Rt. Silver Lake Ore.
(Signed) Lyle Adams (Water Well Contractor)
Contractor's License No. 690 Date 1/23 19 82

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

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion. SP 12605-900

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Attachment 2

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Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-11581

Final Order
Extension of Time for Permit Number G-10790

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

The Department issued Permit G-10790 on March 28, 1988. The permit called for completion of construction by October 1, 1989, and complete application of water to beneficial use by October 1, 1990. On September 29, 1998, Christmas Valley Domestic Water Supply District submitted an application to the Department for an extension of time for Permit G-10790. In accordance with OAR 690-315-0050(2), on August 28, 2007, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2020. The protest period closed October 12, 2007, in accordance with OAR 690-315-0060(1). No protest was filed.

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 the following conditions:

CONDITIONS

1. **Development Limitations**

Diversion of any water beyond 0.97 cfs under Permit G-10790 shall only be authorized upon issuance of a final order approving a WMCP under OAR Chapter 690, Division 86. The required WMCP shall be submitted to the Department within 3 years of an approved extension application. Use of water under Permit G-10790 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 on file with the Department.

The deadline established in this PFO for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as


established through other orders of the Department. A WMCP submitted to meet the requirements of this order may also meet the WMCP submittal requirements of other Department orders

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-11581, Permit G-10790, therefore, is approved subject to conditions contained herein. The deadline for completing construction is extended to October 1, 2020. The deadline for applying water to full beneficial use is extended to October 1, 2020.

DATED: October 25, 2007


Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

If you have any questions about statements contained in this document, please contact Kim R. French at (503) 986-0813.

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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STATE OF OREGON

County of LAKE

PERMIT TO APPROPRIATE THE PUBLIC WATERS

This is to certify that I have examined APPLICATION G-11581 and do hereby grant the same SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

This permit is issued to Christmas Valley Domestic Water Supply District of P.O. Box 142, Christmas Valley, Oregon 97641, for the use of water from one well,

for the PURPOSE of quasi-municipal,

that the PRIORITY OF THE RIGHT dates from September 11 1986,

and is limited to the amount of water which can be applied to beneficial use and shall not exceed 1.5 cubic feet per second

measured at the point of diversion from the well, or its equivalent in case of rotation with other water users.

The well is to be LOCATED: 400 feet North and 50 feet West from the center of Section 13, being within the SE1/4 NW1/4 of Section 13, Township 27 South, Range 17 East, W.M., in the County of Lake.

A description of the PLACE OF USE under the permit, and to which such right is appurtenant, is as follows:

Township 27 South, Range 17 East, W.M.,	Section 8	W1/2 SW1/4	Quasi-municipal
	Section 9	E1/2 NR1/4 S1/2	
	Section 10	All	
	Section 11	SW1/4 NW1/4 S1/2	
	Section 12	SW1/4 SW1/4	
	Section 13	NW1/4	
	Section 14	N1/2 NE1/4 SW1/4 W1/2 SW1/4 N1/2 SE1/4	
	Section 15	N1/2 N1/2 SE1/4 SE1/4 SE1/4	
	Section 16	N1/2 W1/2 SW1/4	
	Section 17	All	
	Section 18	All	
	Section 19	NE1/4 NE1/4	
	Section 20	NR1/4	
	Section 23	NW1/4 NW1/4	

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Application G-11581

Permit G10790



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The use of water under the right allowed herein shall be limited to appropriation only to the extent that it does not impair or substantially interfere with prior surface water rights, as well as prior ground water rights of others.

The well shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times. The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

Actual construction work shall begin on or before March 28, 1989, and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1989. *Extended to October 1, 1991, 10-1-93, 10-1-96* **2020**

Complete application of the water to the proposed use shall be made on or before October 1, 1990. *Extended to October 1, 1991, 10-1-93*

Witness my hand this 28th day of March, 1989.

/s/ WILLIAM H. YOUNG
 WATER RESOURCES DIRECTOR

This permit is for the beneficial use of water. 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. It is possible that the land use you propose may not be allowed if it is not in keeping with the goals and the acknowledged plan. Your city or county planning agency can advise you about the land-use plan in your area.

APPLICATION G-11581

PERMIT **G10790**

SECTION 8
REFERENCE INFORMATION FOR CWRE USE
(Please DO NOT submit these pages.)

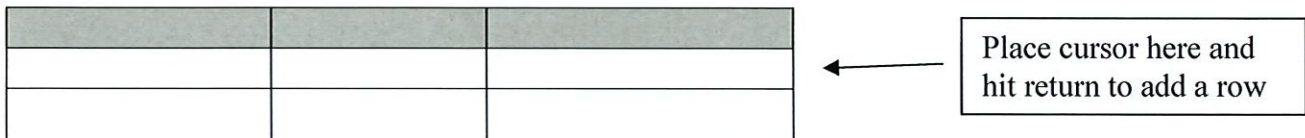
Additional information is available at:

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

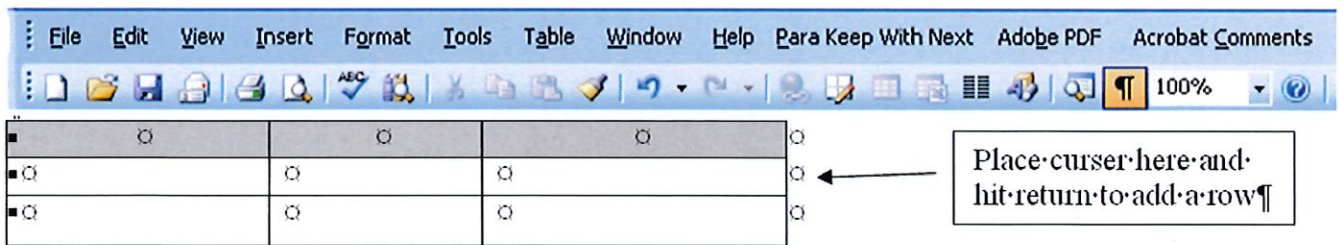
Go to Page "Resources of Certified Water Right Examiners"

MS Word Hints

To add rows to a table, click outside the table on the far right and hit enter.



If you are having difficulty placing the cursor outside the table, click on the Show/Hide (Paragraph) icon ¶. This is found on the Standard toolbar (View =>Toolbars=>Standard) of some versions of Word.



To resolve page numbering issues, go to print preview. Page through the entire document (while in print preview), then print from print preview.

Common Calculations

The Department typically uses the following calculations to determine system capacities; many of which are available to download from the Department's Web Site.

Pumps:

$$Q \text{ Pump} = \frac{(\text{horsepower})(\text{pump efficiency})}{(\text{total head in feet})} = Q \text{ in cfs}$$

Efficiency factors:

NOTE: Pump efficiency factor for centrifugal pump (75%) = 6.61
 Pump efficiency factor for turbine pump (80%) = 7.04

Centrifugal Pump, 75% eff. $\frac{(550 \text{ ft lb/sec/Hp})(.75)}{(62.4 \text{ lb/cu ft})} = 6.61 \text{ ft}^4/\text{sec/Hp}$

Turbine & Submersible Pumps, 80% eff. $\frac{(550 \text{ ft lb/sec/Hp})(.80)}{(62.4 \text{ lb/cu ft})} = 7.04 \text{ ft}^4/\text{sec/Hp}$

Total head is the sum of suction lift, pressure head, and discharge lift.

If the operating pressure is not measured, varying the assumed operational pressure in the above formulas until the calculated outputs are equal, or nearly so, will generally give the most correct theoretical capacity of the system.

Efficiencies have been assumed to be 75% for centrifugal pump installations and 80% for turbine or submersible pumps. See the list below of converted psi's to feet of head. These figures account for minor friction losses. If the system involves unusually long pipelines friction losses should be accounted for by using standard charts and formulas.

Refer to the conversion table below to compute PSI to head for pump pressure in feet.

$$[(\text{psi}/.433)(1.1)] = \text{head (in feet/psi)} = 2.54 \text{ feet head/psi}$$

PSI	HEAD	PSI	HEAD
25	63.5	55	139.7
30	76.2	60	152.4
35	88.9	65	165.1
40	101.6	70	177.8
45	114.3	75	190.5
50	127.0	80	203.2

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Ditches/Canals:

Manning's Formula:

$$v = \frac{1.486}{n} r^{2/3} s^{1/2}$$

- v = mean velocity of flow in feet per second
- r = hydraulic radius in feet
- s = slope of the energy gradient
- n = coefficient of roughness

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Type of Conduit and Description	Coefficient of Roughness
---------------------------------	--------------------------

Pipe	Minimum	Maximum
Cast Iron, Coated	0.01	0.014
Cast Iron, Uncoated	0.011	0.015
Wrought Iron, Galvanized	0.013	0.017
Wrought Iron, Black	0.012	0.015
Steel, Riveted and Spiral	0.013	0.017
Corrugated	0.021	0.0255
Wood Stave	0.01	0.014
Neat Cement Surface	0.01	0.013
Concrete	0.01	0.017
Vitrified Sewer Pipe	0.01	0.017
Clay, Common Drainage Tile	0.011	0.017
Lined Channels		
Metal, Smooth Semicircular	0.011	0.015
Metal, Corrugated	0.0228	0.0244
Wood, Planed	0.01	0.015
Wood, Unplaned	0.011	0.015
Neat Cement-Lined	0.01	0.013
Concrete	0.012	0.018
Cement Rubble	0.017	0.03
Vegetated, Small Channels, Shallow Depths		
Bermuda Grass; Long - 13", Green	0.042	
Bermuda Grass; Long - 13", Dormant	0.035	
Bermuda Grass; Short - 3", Green	0.034	
Bermuda Grass; Short - 3", Dormant	0.034	
Unlined Channels		
Earth; Straight and Uniform	0.017	0.025
Dredged	0.025	0.033
Winding and Sluggish	0.0225	0.03
Stoney Bed, Weeds on Bank	0.025	0.04
Earth Bottom, Rubble Sides	0.028	0.035
Rock Cuts; Smooth and Uniform	0.025	0.035
Rock Cuts; Jagged and Irregular	0.035	0.045

Gravity flow pipe systems

Hazen-William's Formula:

$$v = 1.31(c)(r^{0.63})(s^{0.54})$$

v = mean velocity of flow in feet per second

c = coefficient of roughness

r = hydraulic radius in feet

s = slope of energy gradient

Material	Coefficient of Roughness
Asbestos Cement	140
Brass	135
Brick sewer	100
Cast-Iron - new unlined (CIP)	130
Cast-Iron 10 years old	110
Cast-Iron 20 years old	95
Cast-Iron 30 years old	82
Cast-Iron 40 years old	74
Concrete	130
Copper	135
Ductile Iron Pipe (DIP)	140
Galvanized iron	120
Glass	140
Lead	135
Plastic	145
PVC, CPVC	150
Smooth Pipes	140
Steel new unlined	145
Steel	130
Steel riveted	110
Tin	130
Wood Stave	120

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SPRINKLER CAPACITIES BY NOZZLE SIZE IN GALLONS PER MINUTE

This chart is comprised of information gathered from a number of sources and may differ slightly from the manufacturer's specifications.

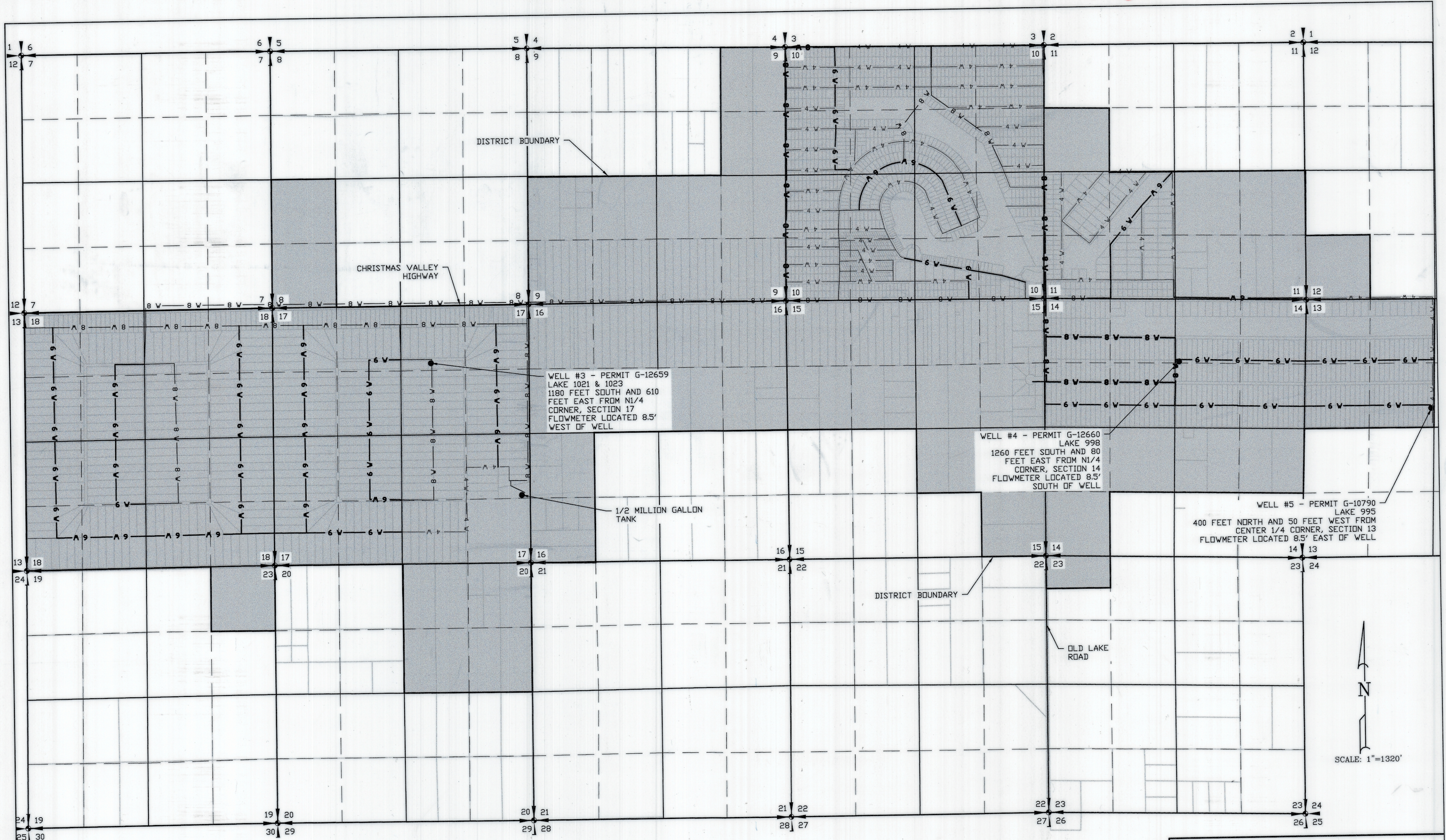
$$Q \text{ Sprinklers} = \frac{\text{(number of heads)(rate in gallons per minute)}}{448.8 \text{ gpm per cfs}} = Q \text{ in cfs}$$

		P.S.I. ("*" designates computed capacity)																	
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
NOZZLE SIZE	3/32				1.1	1.3	1.4	1.5	1.6	1.7	1.8								
	7/64				1.5	1.7	1.9	2	2.2										
	1/8				1.9	2.2	2.4	2.7	2.9	3	3.2								
	9/64				2.3	2.6	2.9	3.1	3.4	3.7	4								
	5/32				3	3.4	3.8	4.1	4.4	4.7	5								
	11/64	1.9	2.7	3.3	3.7	4.2	4.6	5	5.4	5.7	6	6.3	6.6						
	3/16	2.2	3.2	3.9	4.3	5	5.5	6	6.4	6.8	7.2	7.5	7.8						
	13/64	2.9	3.6	4.5	5.1	5.9	6.5	7.1	7.6	8.1	8.5	8.9	9.2						
	7/32		4.1	5.1	5.8	6.8	7.6	8.3	8.9	9.4	9.9	10.3	10.6						
	15/64							8.8	10		11.2		12.4						
	1/4		5.2	6.4	7.4	8.9	9.8	10.6	11.4	12.1	12.8	13.4	13.9	14.8*	15.3*	15.9*	16.4*	16.9*	17.4*
	17/64								12.5		14		15.6		17.1				
	9/32					11.2	12.3	13.3	14.3	15.2	16	16.8	17.5	18.1	18.9	19.7	20.7*	21.4*	22*
	19/64									16.6		18.3		19.9		21.4			
	5/16					13.1	15.2	16.5	17.7	18.9	20	21	22	23	23.9	24.8	25.7	26.4*	27.1*
	21/64										20.8		22.7		24.6		26.4		
	11/32					16.5	18	19.7	21.1	22.5	23.8	25	26.2	27.4	28.5	29.6	30.6	31.9*	32.8*
	23/64										24.5		26.8		29.1		31.4		
	3/8					19	21	22.8	24.4	26	27.5	29.1	30.6	32	33.2	34.5	35.7	38*	39*
	13/32								29*	30.9*	32.7*	34.5*	36.2*	37.4*	38.9*	40.4*	41.9*	43.3*	44.7*
7/16								33.5*	35.6*	37.7*	39.7*	41.7*	43.6*	45.3*	46.9*	48.4*	50.1*	51.6*	
1/2								42.5*	45.2*	47.7*	50.2*	52.5*	54.7*	56.8*	58.6*	60.6*	63.6*	66.7*	

NOTE: Use the maximum number heads operating at any one time.

Rate per head in gpm comes from either manufacturer's specifications using orifice size and operating pressure or from OWRD chart.

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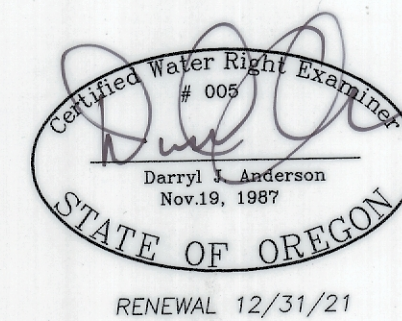
CLAIM OF BENEFICIAL USE MAP
FOR
CHRISTMAS VALLEY DOMESTIC
WATER SUPPLY DISTRICT

SECTIONS 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20 & 23
TOWNSHIP 27 SOUTH,
RANGE 17 EAST, W.M.
LAKE COUNTY, OREGON

APPLICATION NO. G-11581

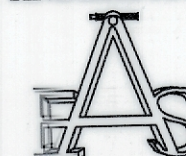
PERMIT NO. G-10790

- LEGEND**
- SECTION LINE
 - 1/4 SECTION LINE
 - 1/16 SECTION LINE
 - TAXLOT LINE
 - 4" - 4" WATER LINE
 - 6" - 6" WATER LINE
 - 8" - 8" WATER LINE



PREPARED FOR:
CHRISTMAS VALLEY DOMESTIC
WATER SUPPLY DISTRICT
PO BOX 142
CHRISTMAS VALLEY, OR 97638

PREPARED BY:
ANDERSON ENGINEERING & SURVEYING, INC.



P.O. BOX 28
LAKEVIEW, OREGON 97630
(541) 947-4407 / FAX 947-2321
WWW.ANDERSONENGINEERING.COM

DATE: 2/16/2021

DWG. FILE: 2021-016

JOB NO.: 2021-016

SHEET 1 OF 1

NOTE:
PREPARATION OF THIS MAP IS FOR IDENTIFYING PROPOSED
WATER RIGHTS ONLY. IT HAS NO INTENT TO PROVIDE PROPOSED
LOCATIONS OR DIMENSIONS OF PROPERTY BOUNDARIES.

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