



Received

SEP 24 2025

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June 11, 2025

Gerry Clark
Water Rights Services Division
Oregon Water Resources Department
725 Summer St. NE Ste A
Salem, Oregon 97301

RE: INCREMENTAL PERFECTION OF PERMIT G-12685 FOR 0.64 CFS – CITY OF DUNDEE

Dear Gerry,

Please find accompanying this letter a Claim of Beneficial Use (CBU) application package for the City of Dundee's (City) municipal use permit G-12685. This letter is intended to provide notification of the City's intent to apply for incremental perfection of G-12685, as required by OAR 690-320-0040(4). The City obtains water from POA-1, POA-2, and POA-3 within the CRBG aquifer. Each of these POAs is permitted to appropriate up to the maximum authorized by Permit G-12685, or 1.78 cfs. To date, the City has only developed the capacity to divert and treat a total of 0.64 cfs from these POAs (36%), meaning that a rate of only 1.14 cfs under Permit G-12685 is undeveloped. The attached CBU documents the beneficial use of this 0.64 cfs portion of the permit.

The permit window for G-12685 closes on October 1, 2025. Therefore, only water use prior to this date is utilized as evidence in the attached claim. The City has submitted an extension of time for the remaining portion of the permit (1.14 cfs, or 64%) along with this CBU application, which should be processed after the CBU. For the purpose of incremental perfection, attached to this letter are monthly summaries of water production under Permit G-12685 for the last three available years (2022-2024) as required by OAR 690-320-0040(4)(a).

The City is projected to undergo significant population growth within the proposed extended permit window. The proposed development within the City's UGB includes construction of homes for up to 2,619 people, which represents population growth equal to 80% of the City's current population. This will require the City to continue to develop the remainder of its water rights permits, including G-12685.

The City estimates it will be able to make an additional claim of beneficial use for the 1.14 cfs left to develop by approximately 2050, which is the date requested in the extension of time application (OAR 690-320-0040(4)(b)) included with this application to be processed after this partial CBU. To satisfy the conditions of OAR 690-320-0040(4)(c)), please see Attachment 2 of the CBU application, which is a map indicating the location of the POAs for Permit G-12685 and the permit area of use, which is the City's service area.

Please let us know if there are any issues in proceeding with the incremental perfection of the City's groundwater permit G-12685 or questions regarding the information above or CBU application included herein. Thank you for your assistance.

June 11, 2025

Project No. 2434001

Page 2



Sincerely,

CwM H2O, L.L.C.

Robert Long, CWRE

Enclosed:

Attachment 1: Monthly Water Use from 2022-2024 Water Years (OAR 690-320-0040(4)(a))

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Attachment 1

City of Dundee Permit G-12685 Monthly Water Use 2022-2024 (Usage in AF)														
Water Year	Facility Name	October	November	December	January	February	March	April	May	June	July	August	September	Total Water Used
2024	POA-1 (WELL 8, YAMH 1656)	7.3	5.6	4.9	6.5	5.3	4.9	0	0	0	13	10	11.2	68.7
	POA-2 (WELL 9, YAMH 1659)	0	0.1	0.1	0	0	0	0	0	2.4	9	9.2	8.2	29
	POA-3 (WELL 10, YAMH 1658)	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	POA-1 (WELL 8, YAMH 1656)	7.4	6.8	5.9	2.6	4.6	3.9	4	6.4	11	10.3	9.9	11.2	84
	POA-2 (WELL 9, YAMH 1659)	2.6	2.4	2.7	6.6	3.3	3.8	7.3	11.8	11.4	10.6	3	0	65.5
	POA-3 (WELL 10, YAMH 1658)	1.1	1	1.1	2.8	2.3	1.4	1.6	3.1	0	0	0	0	14.4
2022	POA-1 (WELL 8, YAMH 1656)	1.8	4.2	5.6	7.6	4.7	4.4	4.4	5	6.4	8	11	11.1	74.2
	POA-2 (WELL 9, YAMH 1659)	7.3	5.5	1.9	0.2	1.4	1.9	3.3	2.3	3.3	7.6	7.6	7.6	49.9
	POA-3 (WELL 10, YAMH 1658)	2.6	2.8	0.94	0.1	0.2	0.8	1.4	1	1.4	3.2	2.2	2.2	18.84

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**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 \$345 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>

**SECTION 1
GENERAL INFORMATION**

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1. File Information:

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
G-12568	G-12685	NA

2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME City of Dundee		PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS PO Box 220			
CITY Dundee	STATE OR	ZIP 97115	E-MAIL

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 City of Dundee			
ADDRESS PO Box 220			
CITY Dundee	STATE OR	ZIP 97115	

ADDITIONAL PERMIT HOLDER OF RECORD			
ADDRESS			
CITY	STATE	ZIP	Received SEP 24 2025 OWRD

4. Date of Site Inspection:

March 18, 2025

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Steve Dahl	Feb-Mar 2025	City Administrator
Chuck Simpson	Feb-Mar 2025	Public Works Superintendent

6. County:

Yamhill

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 NA			
ADDRESS NA			
CITY NA	STATE NA	ZIP NA	

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.



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CWRE NAME Robert Long	PHONE NO. (503) 954-1326	ADDITIONAL CONTACT NO.
ADDRESS 311 B Ave, Suite P		
CITY Lake Oswego	STATE OR	ZIP 97034
E-MAIL bob.long@cwmh2o.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
	Brandon Hamilton	Interim City Administrator	9/17/2025

SECTION 3
CLAIM DESCRIPTION

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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)
POA-1 (City Well 8)	YAMH-1656	
POA-2 (City Well 9)	YAMH-1659/52883	L-48794
POA-3 (City Well 10)	YAMH-1658	

*Original Permit had 2 well locations, POA 1 was never developed.

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
POA-1 (City Well 8)	Late Tertiary Basalt Aquifer Chehalem Creek Basin	
POA-2 (City Well 9)		
POA-3 (City Well 10)		

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)
POA-1 (Well 8)	Municipal	NA	Year-round	0.39 cfs
POA-2 (Well 9)	Municipal	NA	Year-round	0.14 cfs
POA-3 (Well 10)	Municipal	NA	Year-round	0.11 cfs
Total Quantity of Water Used				0.64 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:

POA-1 (Well-8) is located in the City's upper pressure zone. It pumps water into the 6,000 gallon clearwell, which is subsequently pumped to the City's upper pressure zone reservoir via the Clearwell booster pumps. POA-2 and POA-3 (Well-9 and Well-10) are located in the lower pressure zone. These wells pump into the Dundee Hills booster pumps before being distributed into the lower pressure zone distribution system.

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.

YES 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.")

NA

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
POA-1 (Well 8)	1.78 cfs	0.40 cfs	0.39 cfs	Municipal	-	-
POA-2 (Well 9)	1.78 cfs	0.48 cfs	0.14 cfs	Municipal	-	-
POA-3 (Well 10)	1.78 cfs	0.23 cfs	0.11 cfs	Municipal	-	-

***Based on City water use records from 08/21/20**

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SECTION 4 (POA-1)

SYSTEM DESCRIPTION

Are there multiple POAs?

YES **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):

POA-1 (Well 8)

A. Place of Use

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YES **NO**

1. Is the right for municipal use?

If "YES" the table below may be deleted.

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TWP	RNG	MER	SEC	QQ	GLot	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
Total Acres Irrigated									

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.

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

YES **NO**

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 well has an access port at the wellhead as well as a pressure transducer that constantly monitors the water level

~~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

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.

NA

C. Groundwater Source Information (Sump)

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

YES NO

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

Reminder: Construction standards for sumps can be found in OAR 690-210-0400.

2. If the appropriation involves a SUMP, provide the following information for each SUMP:

LENGTH	WIDTH	AVERAGE DIAMETER	MAXIMUM DEPTH	SURFACE AREA (IN ACRES)	VOLUME IN CUBIC FEET OR ACRE FEET

3. If the sump is curbed constructed with watertight surface curbing, describe the curbing:

CURBING MATERIAL (CONCRETE, CONCRETE TILES, OR STEEL)	IF CONCRETE, PROVIDE THE THICKNESS OF THE WALL

4. Provide sump volume calculations:

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D. Diversion and Delivery System Information

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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 NO

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
Grundfos	150S100-5		Submersible	NA	NA

3. Motor Information:

MANUFACTURER	HORSEPOWER
NA	10

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)
10	50	83	-35	.40

5. Provide pump calculations:

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$$Q_{\text{Pump}} = \frac{(10 \text{ hp})(7.04 \text{ ft}^4/\text{sec}/\text{hp})}{(175 \text{ ft})} = 0.40 \text{ cfs}$$

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)
NA	NA	NA	NA

*It was not possible to view active pumping during the site visit because the City's wells operate as-needed to maintain appropriate reservoir levels.

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

7. Is the distribution system piped?

YES NO

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

8. Mainline Information¹:

MAINLINE SIZE	LENGTH	TYPE OF PIPE ²	BURIED OR ABOVE GROUND
3"	13,651	Galvanized Iron, PVC	Buried
4"	18,609	Ductile Iron, Steel, Asbestos Cement, Galvanized Iron	Buried
6"	30,074	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
8"	47,950	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
10"	1,690	Cast Iron, Steel	Buried
12"	5,508	Ductile Iron, Asbestos Cement	Buried

1: Mainline information based on 2016 WSMP. The City planned to replace asbestos cement pipe.

2: The City's distribution system is composed of many different types of pipe. Each type is broken down by diameter in the table.

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
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10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
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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)
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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
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13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
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E. Storage

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

YES NO

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
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
Steel	200,000	Above
Steel	400,000	Above
Concrete	400,000	Partially Buried

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Clearwell	NA	0.02

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?

YES NO

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

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)

3. Provide calculations:

--

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4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

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?

YES NO

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

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL/ DITCH	SLOPE	COMPUTED RATE (IN CFS)

3. Provide calculations:

--

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

H. Additional notes or comments related to the system:

NA

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SECTION 4 (POA-2)

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

POA-2 (Well 9)

A. Place of Use

1. Is the right for municipal use?

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
Total Acres Irrigated									

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.

B. Groundwater Source Information (Well)

1. Is the appropriation from a well?

YES NO

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

The well has an access port at the wellhead as well as a pressure transducer that constantly monitors the water level

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

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.

NA

C. Groundwater Source Information (Sump)

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

YES NO

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

Reminder: Construction standards for sumps can be found in OAR 690-210-0400.

2. If the appropriation involves a SUMP, provide the following information for each SUMP:

LENGTH	WIDTH	AVERAGE DIAMETER	MAXIMUM DEPTH	SURFACE AREA (IN ACRES)	VOLUME IN CUBIC FEET OR ACRE FEET

3. If the sump is curbed constructed with watertight surface curbing, describe the curbing:

CURBING MATERIAL (CONCRETE, CONCRETE TILES, OR STEEL)	IF CONCRETE, PROVIDE THE THICKNESS OF THE WALL

4. Provide sump volume calculations:

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 NO

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2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Grundfos	150S200-10		Submersible	3"	3"

3. Motor Information:

MANUFACTURER	HORSEPOWER
NA	20

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)
20	80	87.5	0	0.48

5. Provide pump calculations:

$Q_{\text{Pump}} = \frac{(20 \text{ hp})(7.04 \text{ ft}^4/\text{sec}/\text{hp})}{(291.85 \text{ ft})} = 0.48 \text{ cfs}$

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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)
NA	NA	NA	NA

**It was not possible to view active pumping during the site visit because the City's wells operate as-needed to maintain appropriate reservoir levels.*

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

7. Is the distribution system piped?**YES NO**

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

8. Mainline Information¹:

MAINLINE SIZE	LENGTH	TYPE OF PIPE ²	BURIED OR ABOVE GROUND
3"	13,651	Galvanized Iron, PVC	Buried
4"	18,609	Ductile Iron, Steel, Asbestos Cement, Galvanized Iron	Buried
6"	30,074	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
8"	47,950	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
10"	1,690	Cast Iron, Steel	Buried
12"	5,508	Ductile Iron, Asbestos Cement	Buried

1: Mainline information based on 2016 WSMP. The City planned to replace asbestos cement pipe.

2: The City's distribution system is composed of many different types of pipe. Each type is broken down by diameter in the table.

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
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10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
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Reminder: For sprinkler output determination use the reference information at the end of this document.

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12. Drip Tape Information:

DRIPPER SPACING-IN INCHES	GPM PER 100-FOOT	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION
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13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
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E. Storage

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

YES NO

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
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
Steel	200,000	Above
Steel	400,000	Above
Concrete	400,000	Partially Buried

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Clearwell	NA	0.02

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?

YES NO

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

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)

3. Provide calculations:

--

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

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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?

YES

NO

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

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL/ DITCH	SLOPE	COMPUTED RATE (IN CFS)

3. Provide calculations:

--

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

H. Additional notes or comments related to the system:

NA

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SECTION 4 (POA-3)

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

POA-3 (Well 10)

A. Place of Use

1. Is the right for municipal use?

YES

NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLot	DLC	USE	If IRRIGATION, # PRIMARY ACRES	If IRRIGATION, # SUPPLEMENTAL ACRES
Total Acres Irrigated									

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.

B. Groundwater Source Information (Well)

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1. Is the appropriation from a well?

YES

NO

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

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

The well has an access port at the wellhead as well as a pressure transducer that constantly monitors the water level

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

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.

NA

C. Groundwater Source Information (Sump)

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

YES

NO

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

Reminder: Construction standards for sumps can be found in OAR 690-210-0400.

2. If the appropriation involves a SUMP, provide the following information for each SUMP:

LENGTH	WIDTH	AVERAGE DIAMETER	MAXIMUM DEPTH	SURFACE AREA (IN ACRES)	VOLUME IN CUBIC FEET OR ACRE FEET

3. If the sump is curbed constructed with watertight surface curbing, describe the curbing:

CURBING MATERIAL (CONCRETE, CONCRETE TILES, OR STEEL)	IF CONCRETE, PROVIDE THE THICKNESS OF THE WALL

4. Provide sump volume calculations:

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?

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

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YES NO

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2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Grundfos	405150	11C19-22-06063A	Submersible	3"	3"

3. Motor Information:

MANUFACTURER	HORSEPOWER
Franklin Electric	15

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)
10	80	265	0	0.23

5. Provide pump calculations:

$$Q \text{ Pump} = \frac{(15 \text{ hp})(7.04 \text{ ft}^3/\text{sec}/\text{hp})}{(468.5 \text{ ft})} = 0.23 \text{ cfs}$$

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)
NA	NA	NA	NA

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

7. Is the distribution system piped?

YES **NO**

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

8. Mainline Information¹:

MAINLINE SIZE	LENGTH	TYPE OF PIPE ²	BURIED OR ABOVE GROUND
3"	13,651	Galvanized Iron, PVC	Buried
4"	18,609	Ductile Iron, Steel, Asbestos Cement, Galvanized Iron	Buried
6"	30,074	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
8"	47,950	Ductile Iron, Cast Iron, Steel, Asbestos Cement	Buried
10"	1,690	Cast Iron, Steel	Buried
12"	5,508	Ductile Iron, Asbestos Cement	Buried

1: Mainline information based on 2016 WSMP. The City planned to replace asbestos cement pipe.

2: The City's distribution system is composed of many different types of pipe. Each type is broken down by diameter in the table.

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
--------------------------	--------	--------------	------------------------

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
------	---------------	------------------------	----------------------------	---------------------	------------------------------

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)
------	---------------	----------------------	--------------------------	---------------------	----------------------------

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
---------------------------	------------------	----------------------	-----------------------------	-------------------------	------------------------

13. Pivot Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
--------------	-----------------------	---------------	--------------------------	--------------------------

E. Storage

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

YES NO

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
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
Steel	200,000	Above
Steel	400,000	Above
Concrete	400,000	Partially Buried

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Clearwell	NA	0.02

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?

YES NO

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

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)

3. Provide calculations:

--

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

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?

YES NO

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

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2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL/ DITCH	SLOPE	COMPUTED RATE (IN CFS)

3. Provide calculations:

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

H. Additional notes or comments related to the system:

NA

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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 ¹	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	8/21/1996		
BEGIN CONSTRUCTION (A)	8/21/1997 ²	11/21/1991	All wells constructed within permitted timeframe
COMPLETE CONSTRUCTION (B)	10/1/1998 ²	1/10/1992	
COMPLETE APPLICATION OF WATER (C)	10/1/1999 ² (10/1/2025) ³	The City is submitting an Extension of Time Application with this Claim of Beneficial Use to extend the development period for the remaining rate authorized under Permit G-12685 not included in the claim to October 1, 2050.	

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

2: DATES A, B, AND C ARE FROM THE ORIGINAL PERMIT (G-12685)

3: THE EXTENDED C DATE IS FROM THE EXTENSION FINAL ORDER ISSUED FOR PERMIT G-12685 ON 9/29/2006.

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

YES NO

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?

YES NO

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

~~b. Were the Progress Reports submitted?~~

~~YES NO~~

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

3. Initial Water Level Measurements:

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

YES NO

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

b. What month was the initial measurement to be taken in?

NA

c. Was the measurement submitted to the Department?

YES NO

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d. If the initial measurement was not submitted, provide that measurement now, if available:

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
12/17/1991	Driller	Reported	8 ft (POA-1)
2/11/1992	Driller	Reported	1 ft (POA-2)
1/28/1992	Driller	Reported	41 ft (POA-3)

4. Annual Static Water Level Measurements:

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

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

b. Provide the month, or months, the static water level measurement(s) were to be made:

March

c. Were the static water level measurements taken in the month(s) required? **YES** **NO**

d. If "YES", were those measurements submitted to the Department? **YES** **NO**

e. If the annual measurements were not submitted, provide the measurements now:

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
NA	NA	NA	NA

5. Pump Test:

a. Did the permit require the submittal of a pump test? **YES** **NO**

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** **NO**

***The City submitted pump tests for each approved POA which were stamped as received by the Department on 2/20/1992. It is unclear if they were reviewed. Pump tests are included in Attachment 1 and summarized here:**

Well	Duration (pumping/recovery)	Rate	
POA-1	24 hours/24 hours	210 gpm	Received
POA-2	24 hours/24 hours	150 gpm	SEP 24 2025
POA-3	24 hours/24 hours	150 gpm	OWRD

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

Yes. Complete pump tests for each POA are included in Attachment 1

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

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

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** **NO**

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
POA-1	Sensus	86781196	Working	48584296	Unknown
POA-2	Seametrics	06103190	Working	2809429.4	2001
POA-3	Endress + Hauser	M405BE16000	Working	NA (During site visit, POA-3 was shut down and flowmeter was not legible. The City is currently exploring for well rehabilitation to return it to full operation)	Unknown

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** **NO**~~

~~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

f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED

7. Recording and reporting conditions:

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

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

- b. Have the reports been submitted? **YES** **NO**

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

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

- | | | |
|--|------------|-----------|
| a. Were there special well construction standards? | YES | NO |
| b. Was submittal of a ground water monitoring plan required? | YES | NO |
| c. Was submittal of a water management and conservation plan required? | YES | NO |
| d. Was a Well Identification Number (Well ID tag) assigned and attached to the well? | YES | NO |

WELL ID #	DATE ATTACHED TO WELL
L-48794 (POA-2)	NA

- | | | |
|----------------------|------------|-----------|
| e. Other conditions? | YES | NO |
|----------------------|------------|-----------|

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

Please See Attachment 3 (Permit G-12685)

- a. Permit G-12685 required construction of wells within a confined unit of the Columbia River Basalt. Wells were constructed appropriately.
- c. The City most recently submitted a WMCP in 2023.
- d. One POA (POA-2) has a Well ID tag attached (L-48794)
- e. Permit G-12685 required compliance with water level decline requirements.
- POA-1 has an initial reported water level of 8 ft, though subsequent measurements by OWRD suggest that the original springtime water level was closer to 20 ft (2005 OWRD measurement). Static water levels submitted over the last five years (2020-2025) show an average drawdown since 2007 of approximately 13.5 ft, though water levels over this time only fluctuate by about 6 ft. This well has been drawn down since the 2007 measurement but appears to be relatively stable. The City will continue to monitor water levels and adjust usage as necessary.
 - POA-2 had an initial water level measurement of 1 ft. However, subsequent measurements by OWRD in 2006 show a springtime static water level of 40 ft. March water levels submitted over the last five years show no significant change in water level.
 - POA-3 had an initial water level measurement of 41 ft. Water levels measured over the last 5 years show a total decline of 9 ft since 1992.

**SECTION 6
ATTACHMENTS**

Received
SEP 24 2025

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

ATTACHMENT NAME	DESCRIPTION	OWRD
Attachment 1	Permit G-12685 Well Logs	
Attachment 2	Claim of Beneficial Use Map	
Attachment 3	Permit G-12685	

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.

Data sources include:

- Data collected during site survey (March 18, 2025)
- Specific data provided by City, including well construction and development records, water use records, historic WMCP and WMP documents, and a facility tour.
- Google Earth Imagery (Google, ©2025 Airbus)
- DOGAMI LiDAR (LDQ-45123C1, 2009 OLC Hood to Coast)

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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) **Municipal Scale Requirements Differ**
- ☒ Township, Range, Section, Donation Land Claims, and Government Lots
- ☐ 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 **N/A**
- ☒ 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 **N/A for Municipal**
- ☐ Source illustrated if surface water **N/A**
- ☒ 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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Attachment 1
G-12685 Well Logs

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SEP 24 2025
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STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

WATER RESOURCES DEPT.
SALEM, OREGON

(START CARD) # 32016

(1) OWNER:

Name City of Dundee Well Number: 8
Address PO Box 220
City Dundee State OR Zip 97115

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☒ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☒ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well 304 ft.

Explosives used Yes ☐ No ☒ Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12	0	75	Cement	0	75	42 sks

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E

☐ Other

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+2.5	75	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of sheets: _____

(7) PERFORATIONS/SCREENS:

☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☒ Pump ☐ Bailer ☐ Air ☐ Flowing
Also see attached 24 hr test data ☐ Artesian
Yield gal/min Drawdown Drill stem at Time

70	11	1.5	hr.
185	54	3 Hr-incl.	abv
240	88	4.5Hr-incl.	abv

Temperature of water 55° F Depth Artesian Flow Found _____

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: _____ SEI Log#9132

(9) LOCATION OF WELL by legal description:

County Yamhill Latitude _____ Longitude _____
Township 3S N or S. Range 3W E or W. WM.
Section 27 NW 1/4 of NE 1/4
Tax Lot 700 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Fairview Dr.
Dundee, OR

(10) STATIC WATER LEVEL:

8 ft. below land surface. Date 12/17/91

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 98

From	To	Estimated Flow Rate	SWL
98	144	airtest - 65	
98	195	airtest - 90	
98	230	airtest - 120	
98	304	airtest - 300	

(12) WELL LOG:

Ground elevation ~450

Material	From	To	SWL
Topsoil	0	1	
Clay, brown	1	6	
Clay, grey	6	12	
Basalt, decayed w/clay, grey	12	38	
Basalt, grey-brn, soft	38	70	
Basalt, grey-brn, med	70	98	
Basalt, grey-brn w/black	98	155	
Basalt, grey w/soft, brn layers	155	185	
Basalt, brn, decayed	185	215	
Basalt, grey	215	222	
Basalt, brown	222	230	
Basalt, grey, bkn, med	230	250	
Basalt, grey&brn, bkn, med-sft	250	269	
Basalt, brown, bkn, med-sft	269	284	
Basalt, brn & gry, bkn, med-sft	284	295	
Basalt, grey, frac, med-hd	295	304	

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Date started 11/21/91 Completed 1/10/92

(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.

Signed [Signature] WWC Number 1367
Date 1/31/92

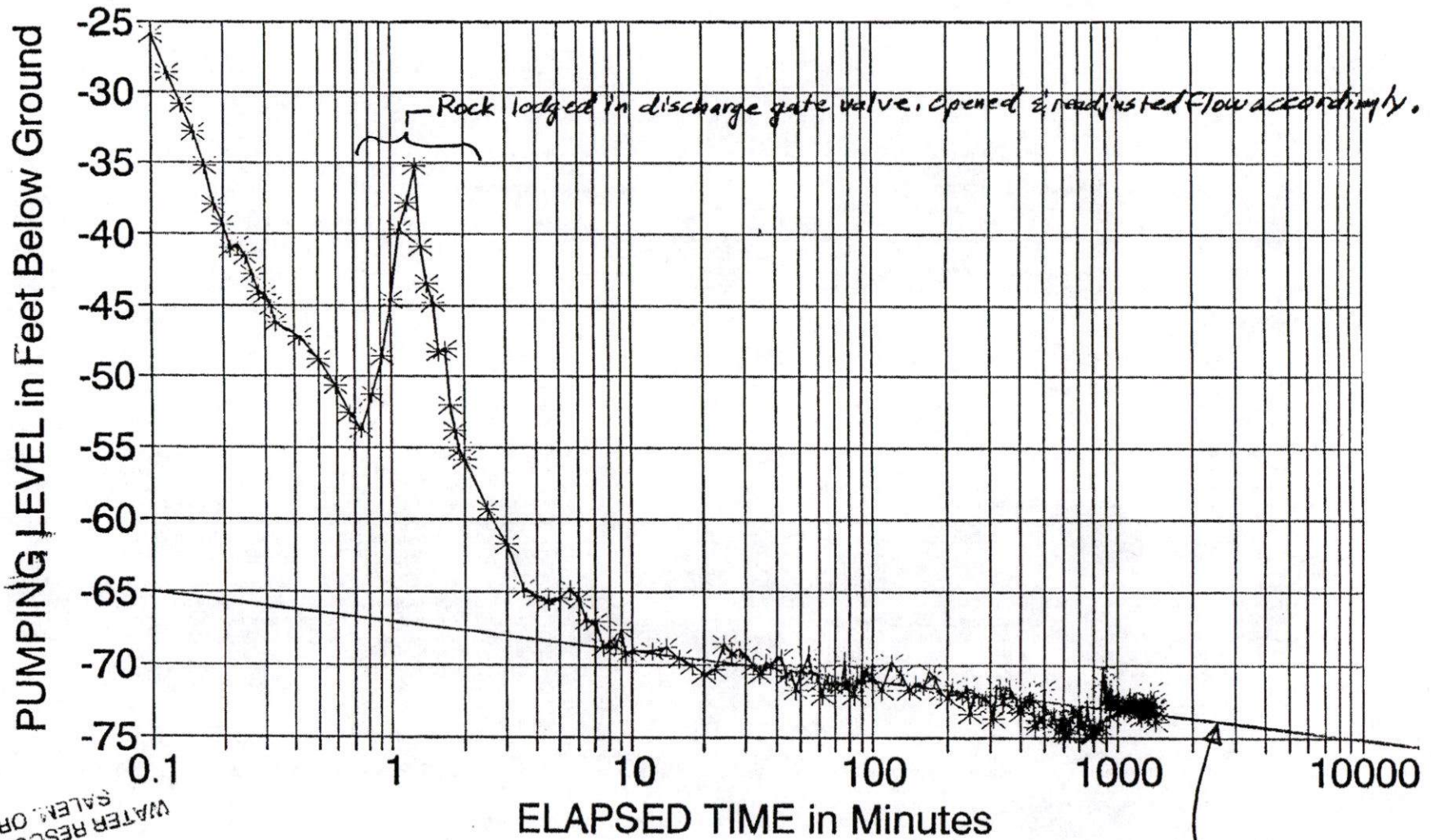
(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment of work performed on this well during the construction dates reported above. This work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 649
Date 1/31/92

CITY OF DUNDEE WELL NO. 8

CONSTANT RATE PUMP TEST: 12/30-31/91
by Schneider Drilling Co. - $Q_{avg} = 210$ gpm



WATER RESOURCES DEPT.
SALEM, OREGON

FEB 18 1992

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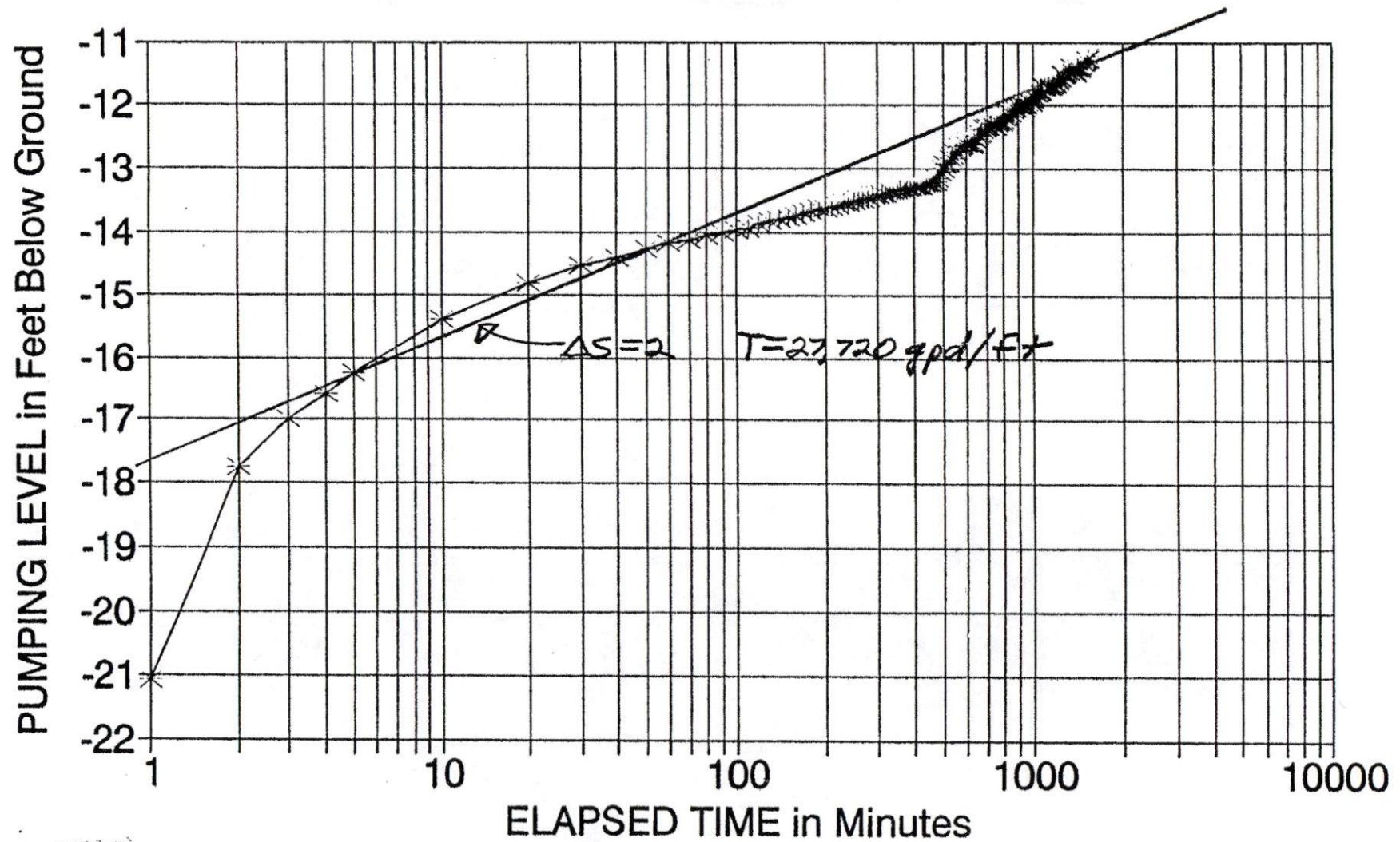
OWRD

$\Delta S = 2$
 $T = \frac{264 \cdot 210}{2} = 27,720 \text{ gpd/ft.}$

CITY OF DUNDEE WELL NO. 8

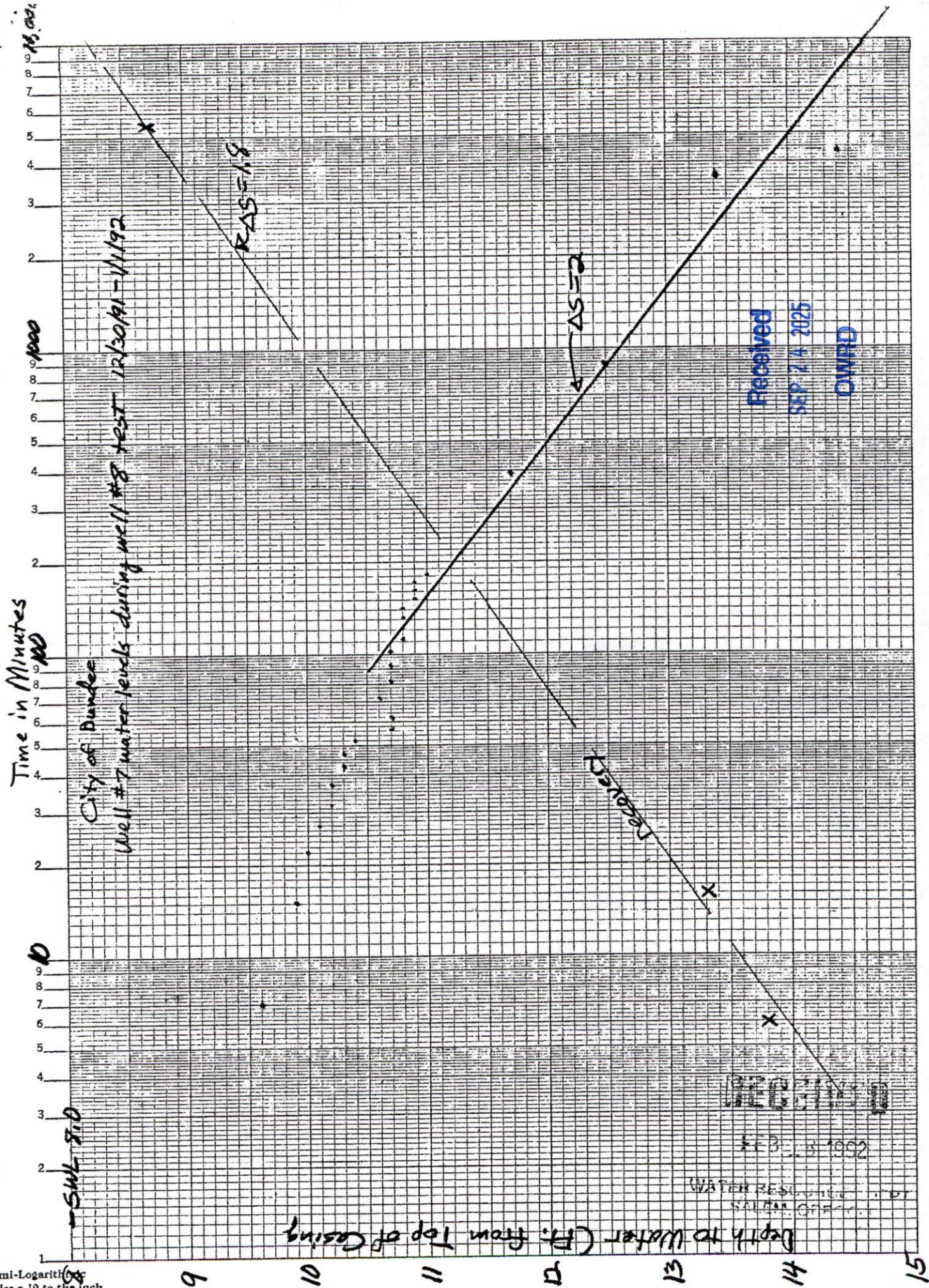
WELL RECOVERY TEST: 12/31/91 TO 1/1/92

by Schneider Drilling Co. - $Q_{avg} = 210$ gpm



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FEB 18 1992
WATER RESOURCES DEPT.
SALEM, OREGON

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SEP 24 2025
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STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

FEB 20 1992

(START CARD) # 32018

(1) OWNER:

Name City of Dundee

Well Number 10

Address P.O. Box 220

City Dundee

State OR

Zip 97115

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☒ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 482 ft.

Explosives used ☐ Yes ☒ No Type Amount

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12	0	257	Cementw/bent	0	340	446 sks
10	257	340				
8	340	482				

How was seal placed: Method ☐ A ☒ B ☒ C ☐ D ☐ E

☐ Other

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+2.5	340	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations

Method

☐ Screens

Type

Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☒ Pump ☐ Bailer ☐ Air ☐ Flowing
Artesian

Yield gal/min	Drawdown	Drill stem at	Time
105	99		1 hr.
155	165		2hr incl above
195	224		3hr "

Also see attached 24hr test data

Temperature of Water 55°F Depth Artesian Flow Found

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: SEI 9136

(9) LOCATION OF WELL by legal description:

County Yamhill Latitude Longitude

Township 3S N or S. Range 3W E or W. WM.

Section 26 SE 1/4 of SW 1/4

Tax Lot 500 Lot Block Subdivision

Street Address of Well (or nearest address) Alder Street

Dundee, OR

(10) STATIC WATER LEVEL:

41 ft. below land surface.

Date 1/28/92

Artesian pressure lb. per square inch.

Date

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 65

From	To	Estimated Flow Rate	SWL
336	381	50	NM
336	472	300	

(12) WELL LOG:

SEP 24 2025 Ground elevation approx 180

Material	From	To	SWL
Top soil	0	2	
Clay, brown, soft	2	9	
Clay, grey, soft	9	65	
Sand, brn, med-fine, cem. & sandy brown clay layers	65	121	
Clay, grey, soft	121	145	
Clay, brn, sandy & cem sand lyr	145	235	
Basalt, blk, frac, med-hd	235	245	
Basalt, brn, bkn & red cinders	245	328	
sloughs		328	
Basalt, blk, hard	328	336	
Basalt, blk, hard, frac.	336	361	
Basalt, grey, med, frac	361	381	
Basalt, grey, med, frac-some brown	381	426	
Basalt, grey, hard, frac	426	450	
Basalt, brn, med, frac, ves	450	461	
Basalt, grey, med-hard, frac	461	472	
Basalt, grey, hard	472	482	

Date started 11/20/91 Completed 2/11/92

(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. Material used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1367
Date 2/14/92

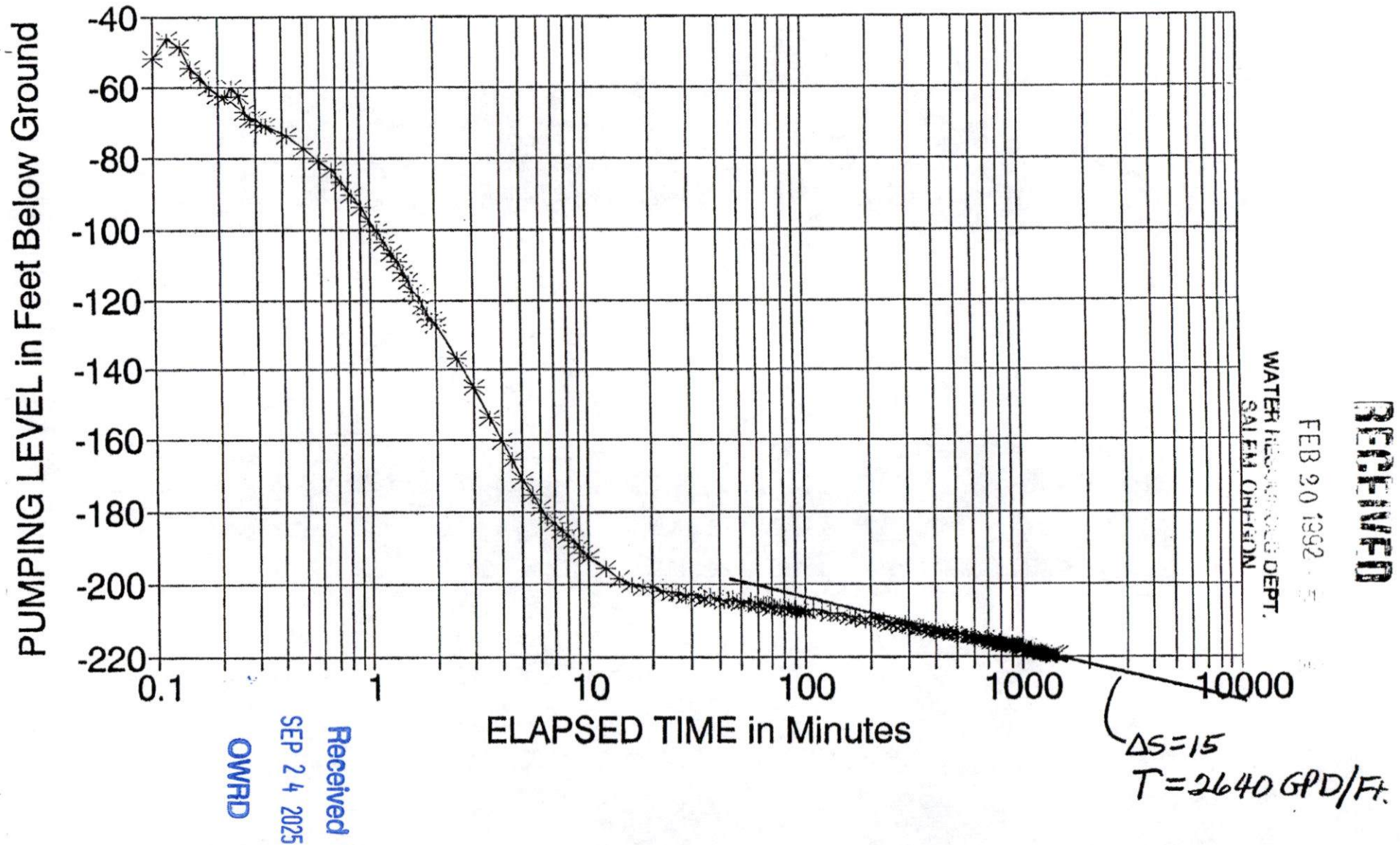
(bonded) Water Well Constructor Certification:

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 belief.

Signed [Signature] WWC Number 649
Date 2/14/92

CITY OF DUNDEE WELL NO. 10

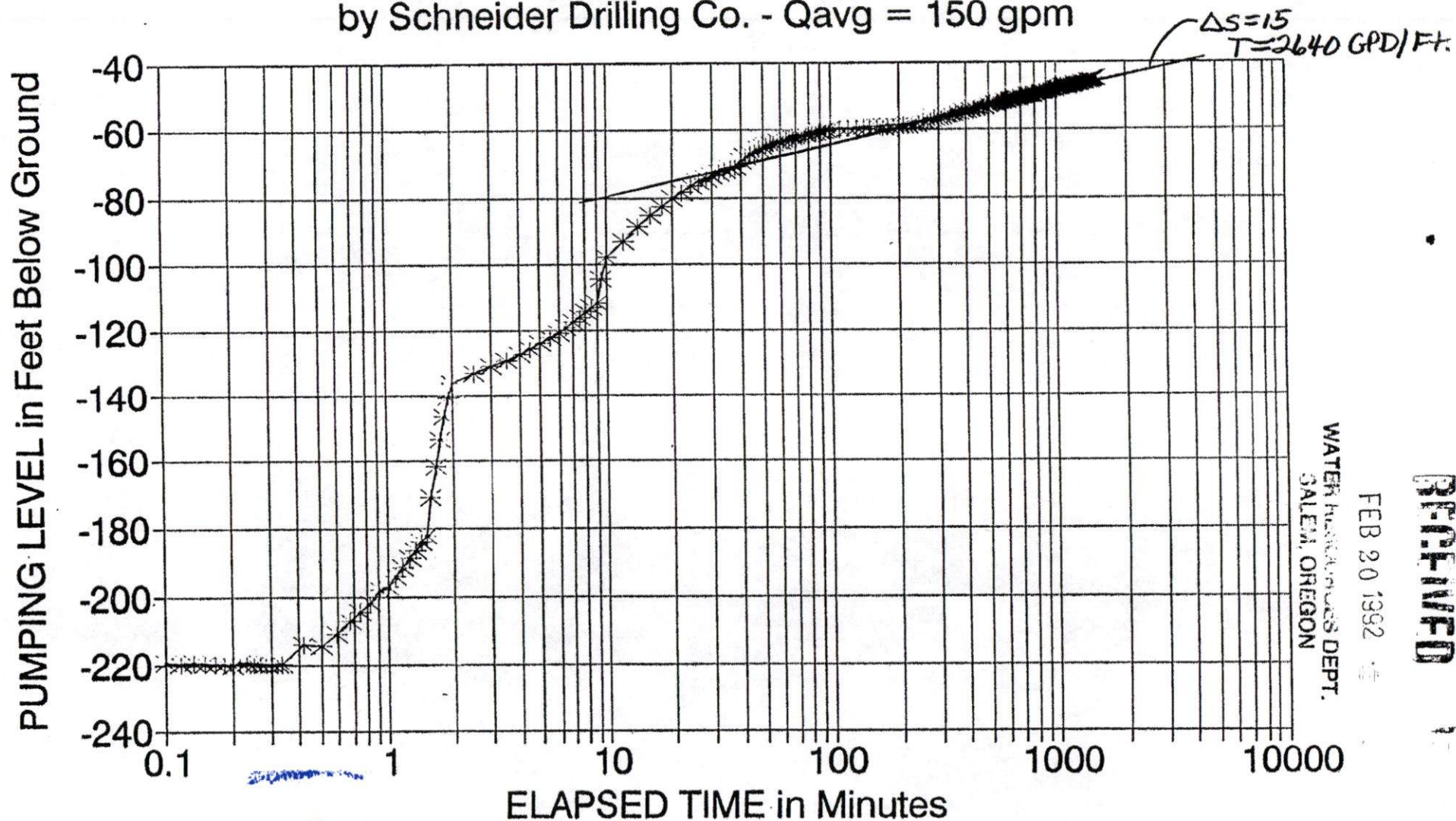
CONSTANT RATE PUMP TEST: 1/28-29/92
by Schneider Drilling Co. - $Q_{avg} = 150 \text{ gpm}$



CITY OF DUNDEE WELL NO. 10

WELL RECOVERY TEST: 1/29-30/92

by Schneider Drilling Co. - $Q_{avg} = 150 \text{ gpm}$



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SALEM, OREGON

FEB 20 1992

RECEIVED

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

RECEIVED

FEB 20 1992

(START CARD) # 32017

(1) OWNER:

Name City of Dundee
Address P.O. Box 220
City Dundee State OR Zip 97115

Well Number 9

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:

☐ Domestic ☒ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 385 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
12	0	108	Cement	0	108	73 sks
8	108	385				

How was seal placed: Method ☐ A ☒ B ☒ C ☐ D ☐ E
☐ Other

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8	+2.5	108	.250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☒ Pump ☐ Bailer ☐ Air ☐ Flowing
Artesian

Yield gal/min	Drawdown	Drill stem at	Time
75	48		1 hr.
150	142		2hr incl above
205	256		3hr incl above

Also see attached 24hr test data

Temperature of Water 55°F Depth Artesian Flow Found _____

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: _____ SEI 9137

(9) LOCATION OF WELL by legal description:

County Yamhill Latitude _____ Longitude _____
Township 3S N or S. Range 3W E or W. WM. _____
Section 25 SW 4 of NW 4
Tax Lot 901 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 1st Street
Dundee, OR

(10) STATIC WATER LEVEL:

1 ft. below land surface. Date 2/11/92

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 1st significant @ 55

From	To	Estimated Flow Rate	SWL
115	364	See (8)	See (10)

(12) WELL LOG:

Ground elevation Approx 220

Material	From	To	SWL
Top soil	0	2	
Clay, brn, med-soft, silty	2	15	
Clay, red-brn, soft	15	55	
Sand, brn, med, cem	55	98	
Basalt, brn & grey, med	98	107	
Basalt, grey, med-hd	107	115	
Basalt, blk, med-hd, frac	115	135	
Basalt, grey, hd, frac	135	219	
Basalt, brn, bkn	219	225	
Basalt, brn & grey, frac	225	230	
Basalt, grey, frac	230	252	
Basalt, brn & grey, bkn	252	265	
Basalt, dk grey, frac	265	296	
Basalt, grey, hard	296	302	
Basalt, grey, frac	302	318	
Basalt, grey-blk, frac	318	323	
Basalt, grey, hd	323	329	
Basalt, blk, frac	329	346	
Basalt, blk, med-soft, well frac	346	361	
Basalt, blk, med, frac	361	364	
Basalt, grey, hd, some frac	364	385	

Date started 11/21/91 Completed 2/11/92

(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. Material used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1367
Date 2/14/92

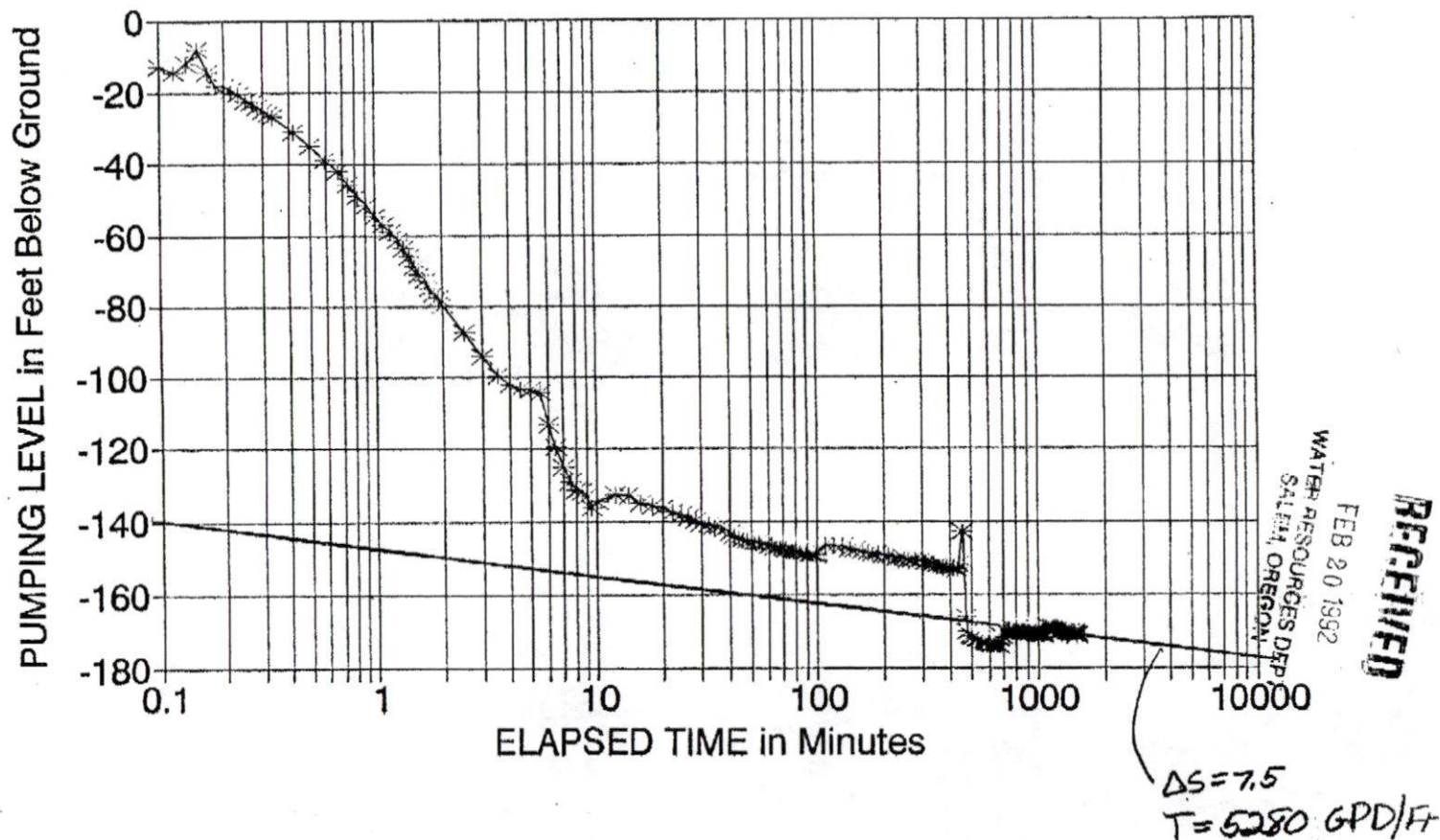
(bonded) Water Well Constructor Certification:

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 is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 649
Date 2/14/92

CITY OF DUNDEE WELL NO. 9

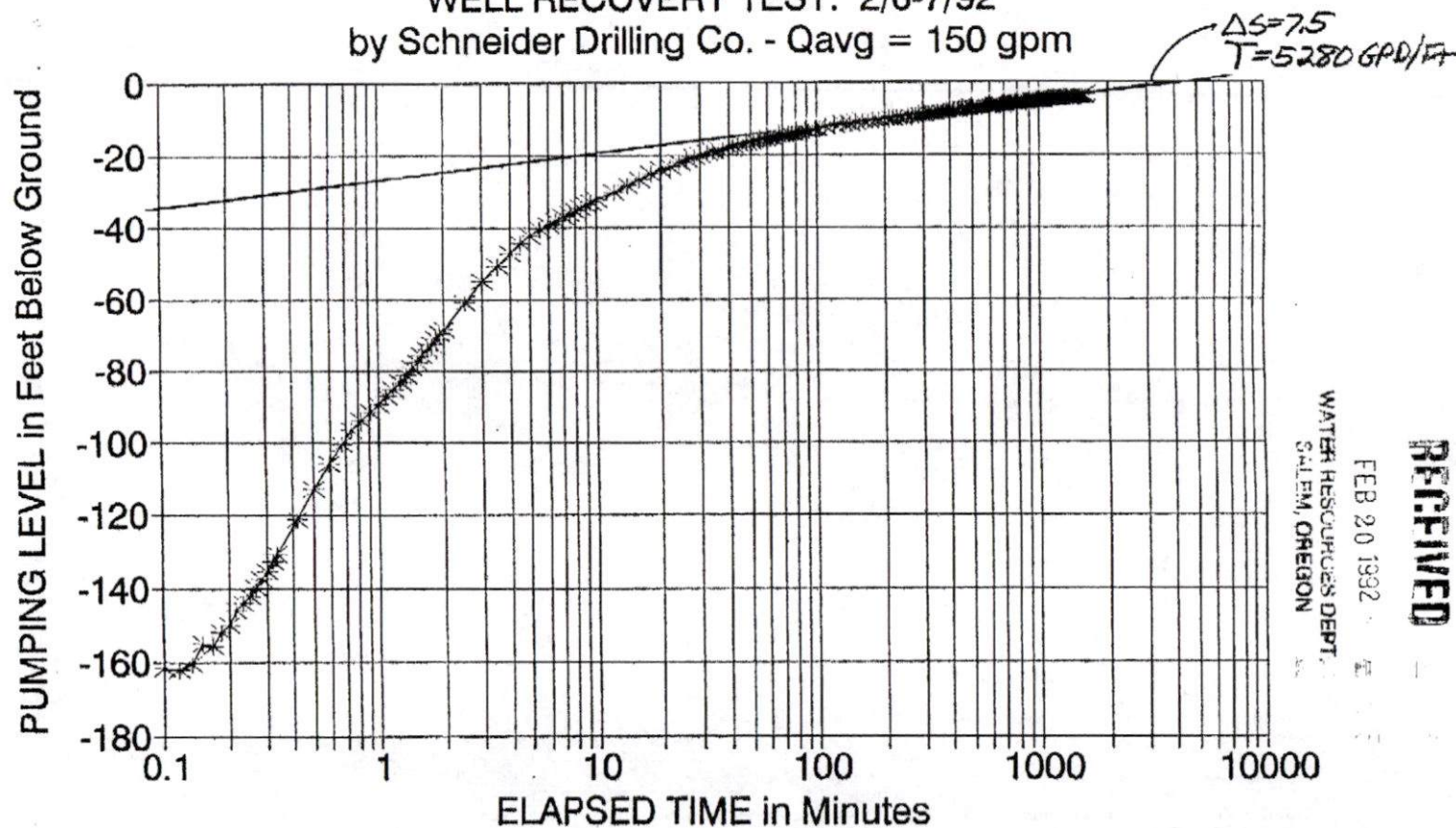
CONSTANT RATE PUMP TEST: 2/5-6/92
by Schneider Drilling Co. - $Q_{avg} = 150$ gpm



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CITY OF DUNDEE WELL NO. 9

WELL RECOVERY TEST: 2/6-7/92
by Schneider Drilling Co. - $Q_{avg} = 150$ gpm



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SALEM, OREGON

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

START CARD # 141218

Well Number:

City **Dundee** State **OR** Zip **97115**

☐ New Well ☐ Deepening ☒ Alteration (repair/recondition) ☐ Abandonment

☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☒ Other **Municipal**

Special Construction approval ☐ Yes ☒ No Depth of Completed Well _____ ft
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds

[illegible]

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☒ Other seal not disturbed

Backfill placed from	ft. to	ft.	Material
Gravel placed from	ft. to	ft.	Size of gravel

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	8 inch	-7'	385'	160#	☐	☒	☒	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☐ Outside ☐ None

Final location of shoe(s)

☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
131'	365'	1/8x6	468	8 inch		☒	☒
						☐	☐
						☐	☐
						☐	☐
						☐	☐

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
---------------	----------	---------------	------

not tested			1 hr.
------------	--	--	-------

Temperature of Water Depth Artesian Flow found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use?

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

County **Yamhill** Latitude _____ Longitude _____
Township **3S** N or S. Range **3W** E or W. of WM.
Section **25** **SW** 1/4 **NW** 1/4
Tax lot **901** Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) **First Street**

ft. below land surface

Artesian pressure lb. per square inch

Depth at which water was first found

From	To	Estimated Flow Rate	SWL

Ground elevation

Material	From	To	SWL
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WATER RESOURCES DEPT.			
SALEM, OREGON			

Date started **8/20/2001**

Completed 8/21/2001

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed _____ WWC Number _____
Date _____

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed Michael Waldrod WWC Number **633**
Date **1/8/02**

Michael Waldroop

Attachment 3
Permit G-12685

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STATE OF OREGON

COUNTY OF YAMHILL

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF DUNDEE
PO BOX 220
DUNDEE, OREGON 97115

(503) 538-3922

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

APPLICATION FILE NUMBER: G-12568

SOURCE OF WATER: WELLS #8, #9, & #10 IN CHEHALEM CREEK BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE: 1.78 CUBIC FEET PER SECOND

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: JUNE 7, 1991

POINT OF DIVERSION LOCATION: SW 1/4 NW 1/4 SECTION 25, NW 1/4 NE 1/4 SECTION 27, NW 1/4 NE 1/4 SECTION 35, T3S, R3W, W.M.; WELL #8 - 550 FEET SOUTH AND 1860 FEET WEST FROM THE NE CORNER SECTION 27; WELL #9 - 1790 FEET SOUTH AND 795 FEET EAST FROM THE NW CORNER SECTION 25; 616 FEET SOUTH AND 1379 FEET WEST FROM THE NE CORNER SECTION 35

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SECTION 25
SECTION 26
SECTION 35
SECTION 36
TOWNSHIP 3 SOUTH, RANGE 3 WEST, W.M.

SECTION 30
SECTION 31
TOWNSHIP 3 SOUTH, RANGE 2 WEST, W.M.

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Measurement, recording and reporting conditions:

- Condition A**
- 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, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently

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Page 2

as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

- 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.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86. **Condition B**

Ground water authorized for use under this permit shall be produced from the Columbia River Basalt aquifer and shall be confined. **Condition C**

(1) Use of water from the well, as allowed herein, shall be controlled or shut off if the well displays: **Condition D**

- (a) An average water level decline of three or more feet per year for five consecutive years; or **a**
- (b) A total water level decline of fifteen or more feet; or **b**
- (c) A hydraulic interference decline of fifteen or more feet in any neighboring well providing water for senior exempt uses or wells covered by prior rights. **c**

(2) The water user shall install a meter or other measuring device suitable to the Director, and shall submit an annual report of water used to the Department by December 1 of each year. **Condition E**

(3) The permittee/appropriator shall be responsible for complying with each of the following requirements for measuring water levels in the well.

(a) Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department. **Condition F**

(b) In addition to the measurement required in subsection (a) of this section, a water level measurement shall be made each year during the period March 1 through March 31. **Condition G**

(c) All water level measurements shall be made by a qualified individual. Qualified individuals are certified water rights examiners, registered geologists, registered professional engineers, licensed land surveyors, licensed water well constructor, licensed pump installer, or the permittee/appropriator.

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(d) Any qualified individual measuring a well shall use standard methods of procedure and equipment designed for the purpose of well measurement. The equipment used shall be well suited to the conditions of construction at the well. A list of standard methods of procedure and suitable equipment shall be available from the Department.

(e) The permittee/appropriator shall submit a record of the measurement to the Department on a form available from the Department. The record of measurement shall include both measurements and calculations, shall include a certification as to their accuracy signed by the individual making the measurements, and shall be submitted to the Department within 90 days from the date of measurement. The Department shall determine when any of the declines cited in section (1) are evidenced by the well measurement required in section (3).

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.

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

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. **Condition H**

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.

Attachment 4
G-12685 Water Use Records 8/21/2020

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Well # 9 Daily Production Report

August 2020

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SEP 24 2025

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Date	Meter Reading	Production	GPM	Level	Time	Int.	Chlorine	Used
31	8688238	101552	74	88	827	GW	26	4
30	8586686	12042	72	89	0920	GW	30	1
29	8574644	57716	6	185	0920	GW	31	2
28	8517928	106544	71	90	830	GW	33	3
27	8411284	102341	73	89	810	GW	36	4
26	8305943	10018	79	86	840	W	40	1
25	8208925	71049	73	89	1000	W	41	2
24	8137876	96077	72	89	834	GW	44	1
23	8041759	11236	64	92	1040	W	43	1
22	8029963	11507	67	106	1115	W	46	2
21	8018456	105252	67	91	815	GW	46	4
20	7913204	102981	67	90	816	GW	8	4
19	7810223	101813	76	88	840	W	12	3
18	7808410	109457	72	91	900	W	15	3
17	7594953	96659	67	90	830	W	18	3
16	7502294	114539	77	92	1015	W	21	5
15	7387755	103291	65	95	830	W	26	4
14	7276464	18714	66	95	855	W	30	3
13	7175748	10180	79	93	815	GW	33	2
12	7165568	29083	70	188	816	GW	33	1
11	7136485	105600	74	92	839	GW	34	2
10	7030885	92341	78	92	835	GW	36	3
9	6938544	114629	68	92	1132	GW	39	3
8	6823915	110072	65	95	925	GW	42	3
7	6713843	101080	78	95	821	GW	45	2
6	6612763	98470	74	97	850	W	47	3
5	6504293	108802	76	95	840	GW	48	3
4	6396491	91732	67	97	806	GW	11	3
3	6304759	103950	67	98	833	GW	14	3
2	6200309	40709	60	107	0850	GW	17	1
1	6160100	81531	52	120	0815	GW	18	2

CLP
225

CLP

CLP

Well # 10 Daily Production Report

August 2020

Date	Meter Reading	Production	GPM	Level	Time	Int.	Chlorine	Used
31	53917348	69988	50	157	908	GW	39	4
30	53847360	9984	50	164	0950	GW	43	1
29	53837376	37478	50	301	1010	GW	44	2
28	53799898	72450	50	152	903	GW	46	4
27	53727448	75036	50	155	847	GW	4	5
26	53652412	63572	50	151	0715	GW	9	4
25	5							
24	53588040	66700	50	157	919	GW	13	3
23	53522140	9556	50	166	1110	GW	16	2
22	53512534	6584	50	302	1141	GW	18	4
21	53506000	69516	50	146	842	GW	22	4
20	53436484	72900	50	147	920	GW	26	4
19	53363884	66556	50	148	900	GW	30	5
18	53297028	77808	50	148	1015	GW	35	5
17	53219220	66084	50	150	910	GW	40	4
16	53153136	75996	50	155	1105	GW	44	6
15	53077140	72472	50	153		GW	6	5
14	53004668	75244	50	155	935	GW	11	2
13	52929424	8720	50	164	849	GW	11	4
12	52920704	18216	50	298	852	GW	13	4
11	52902488	72020	50	146	915	GW	17	4
10	52830468	67436	50	149	913	GW	21	5
9	52763032	74634	50	149	1049	GW	26	5
8	52688398	74730	50	150	958	GW	31	4
7	52613668	68508	50	152	902	GW	35	6
6	52545160	34972	50	156	908	GW	41	5
5	52470188	73692	41	157	921	GW	46	4
4	52396496	62420	50	162	851	GW	6	5
3	52334070	71676	50	160	928	GW	11	2
2	52262400	30052	50	170	0940	GW	13	6
1	52232348	68672	50	152	0900	GW	19	
	52163676							

new CL2

116

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17-7177

5.3

Well-8

6/25/2021	5/27/2021	4/27/2021	3/28/2021	2/25/2021	1/25/2021	12/28/2020	11/25/2020	10/27/2020	9/25/2020	8/26/2020	7/28/2020	6/26/2020	5/25/2020	4/25/2020	3/25/2020	2/25/2020	1/26/2020	12/27/2019	11/27/2019	10/24/2019	9/24/2019
3459440	1011074	8956130	6937455	6153427	5228555	3606630	2066782	1210799	5600640	998521	5979138	807743	9722017	8722017	8605442	8605442	8605442	7640409	7640409	5522188	3961645
7.5	6.3	6.2	2.4	2.8	5.0	4.7	2.6	17.2	14.1	15.4	15.9	3.3	3.1	0.4	0.0	0.0	3.0	0.0	6.5	4.8	13.2
2448366	2054944	2018675	784028	924872	1621925	1539848	855983	5610159	4602119	5019383	5171395	1085726	1000000	116575	0	0	965033	0	2118221	1560543	4301794
65527296	64192752	63274152	61577744	59966820	58767360	57850716	56567344	55074600	55007460	53652412	51945528	50259432	48662724	47684828	46296844	45475976	44404656	43166056	41848460	40971584	39581036
4.1	2.8	5.2	5	3.6	2.8	4	4.6	0.22	3.5	5.2	5.2	4.9	3	4.2	2.5	3.2	3.8	4	2.7	4.2	5.1
1335989	912383	1694425	1629255	1173064	912383	1303404	1498915	71687	1140479	1694425	1694425	1596670	977553	1368574	814628	1042723	1238234	1303404	879798	1368574	1661840
6/29	5/26	4/25	3/4	2/28	1/27	12/13	11/24	10/31	9/15	8/18	7/24	6/5	5/8	4/18	3/29	2/8	1/30	12/11	11/10	10/21	9/19
80570	77484	86480	73232	75179	71028	73332	71624	34716	76112	77808	99820	74134	81942	74906	75823	77512	77952	76756	73584	78876	84922
0.1247	0.1199	0.1338	0.1133	0.1163	0.1099	0.1135	0.1108	0.0537	0.1178	0.1204	0.1545	0.1147	0.1268	0.1159	0.1173	0.1199	0.1206	0.1188	0.1139	0.1220	0.1314
3158242	1376967	9760536	7871578	6238855	4875928	3966307	2552853	434058	434058	8308943	5830189	3884007	2113678	902399	9431948	8480203	7161309	5827928	3630557	2613524	1000929
5.4	5	5.8	5	4.2	2.8	4.3	6.5	0	5.3	7.6	6	5.4	3.7	4.5	3	4	4	6.7	3.1	5	6.7
1759595	1629255	1889936	1629255	1368574	912383	1401159	2118032	0	1727010	2476468	1955106	1759595	1205649	1466330	977553	1303404	1303404	2183202	1010138	1629255	2183202
6/29	5/26	4/20	3/29	2/27	1/18	12/13	11/17	10/30	9/15	8/16	7/19	6/4	5/26	4/16	3/29	2/8	1/31	12/11	11/2	10/6	9/1
110722	112522	79065	88300	79333	59800	81780	99000	54159	118283	114539	93034	84710	89057	88010	116049	89889	95206	89735	89740	89477	99264
0.1713	0.1741	0.1223	0.1366	0.1228	0.0925	0.1265	0.1532	0.0838	0.1830	0.1772	0.1440	0.1311	0.1378	0.1362	0.1796	0.1391	0.1473	0.1389	0.1389	0.1385	0.1536
57052390	55155300	53550960	51971330	50648480	48795510	47023930	45370540	44369380	39592310	35696270	31403020	26731800	23419830	20453780	17589280	15166380	12993290	11266690	10362860	8377681	6830848
5.8	4.9	10.3	4	5.6	5.4	5	3	14.6	12	13	14	10.2	9.1	8.8	7.4	6.7	5.3	2.8	6.1	4.7	12.0
1889936	1596670	3356265	1303404	1824766	1759595	1629255	977553	4757425	3910212	4236063	4561914	3311970	2966050	2864500	2422900	2173090	1726600	903830	1985179	1546833	3922802
6/2	5/31	4/16	3/14	2/23	1/28	12/24	11/29	10/27	9/13	8/21	Date Gal CFS										
230526	54221	99791	109262	88212	89902	89959	59150	66207	226223	252157											
0.3567	0.0839	0.1544	0.1691	0.1365	0.1391	0.1392	0.0915	0.1024	0.3500	0.3902											
30319318	28500492	26650941	25458830	24631950	23779995	22735348	21756016	21155874	20669106	20669106	20669106	20669106	1950225	1674220	1393567	1166755	9634999	8019317	7175664	5326975	3890336
5.6	5.6	3.6	2.5	2.6	3.2	3	1.8	1.5	0	0	0	57.4	0.8	0.9	0.7	4.7	5.0	2.6	5.7	4.4	11.1
1824766	1824766	1173064	814628	847213	1042723	977553	586532	488777	0	0	0	18718881	276005	280653	226812	1531756	1615682	843653	1848689	1436639	3613589
6/20	5/31	4/21	3/23	2/5	4/21	1/28	12/23	11/29	10/20 New pump and motor installed												
118963	63616	79352	89113	55754	51947	52298	31440	76972													
0.1841	0.0984	0.1228	0.1379	0.0863	0.0804	0.0809	0.0486	0.1191													
7073089	2702417	420031	420031	420031	420031	420031	420031	9741394	9741394	6496994	2203699	9054986	8658609	8658609	8657706	8656141	8603874	7914528	7605661	7578160	7177972
13.4	7.0						2.1	0.0	10.0	13.2	9.7	1.2	0.0	0.0	0.0	0.2	2.1	0.9	0.1	1.2	11.1
4370672	2282386	0	0	0	0	0	684287	0	3244400	4293295	3160755	396377	0	903	1565	52267	689346	308867	27501	400188	3600910
6/29	5/31 out of service						11/1	10/31	9/15	8/29	7/18	6/28	5/31		3/6	2/3	1/2	12/25	11/11	10/18	9/1
338178	323222						118462	86512	179993	186591	197878	150011	838		1565	38327	90086	127541	146643	78042	177805
0.5233	0.5001						0.1833	0.1339	0.2785	0.2887	0.3062	0.2321	0.0013		0.0024	0.0593	0.1394	0.1973	0.2269	0.1208	0.2751
							1.05	0.00	4.98	6.59	4.85	0.61	0.00		0.00	0.08	1.06	0.47	0.04	0.61	5.53
18946372	18189852	17451044	16503829	15555448	14871026	14363439	13674053	12875422	12874743	12161939	11265009	10377259	9496394	8953398	8943474	8746116	8063968	7286704	6128667	5591905	4751404
2.3	2.3	2.9	2.9	2.1	1.6	2.1	2.5	0.0	2.2	2.8	2.7	2.7	1.7	0.0	0.6	2.1	2.4	3.6	1.6	2.6	3.2
756520	738808	947215	948381	684422	507587	689386	798631	679	712804	896930	887750	880865	542996	9924	197358	682148	777264	1158037	536762	840501	1052134
6/16	5/23	4/9	3/17	2/4	1/27	12/13	11/6	10/31	9/5	8/24	7/20	6/14	5/19	4/25	3/2	2/8	1/30	12/6	11/10	10/16	9/1
37506	39264	40650	40440	41504	38862	40398	44285	19474	37360	43100	46298	40290	42067	7581	47624	48743	48386	48019	44559	45714	51390
0.0580	0.0608	0.0629	0.0626	0.0642	0.0601	0.0625	0.0685	0.0301	0.0578	0.0667	0.0716	0.0623	0.0651	0.0117	0.0737	0.0754	0.0749	0.0743	0.0689	0.0707	0.0795
10877520	10226352	9559779	9120449	8857920	8602696	8220514	7887682	7722187	7050300	6461659	5750766	4869233	4217201	3621677	2998051	2488971	2025149	1659282	1476059	1086510	779595
2.4	2	1.3	0.8	0.8	1.2	1	0.2	2.1	1.8	2.2	2.7	2	1.8	1.9	1.6	1.4	1.1	0.6	1.2	0.9	2.1
782042	651702	423606	260681	260681	391021	325851	65170	684287	586532	716872	879798	651702	586532	619117	521362	456191	358436	195511	391021	293266	684287
6/20	5/26	4/21	3/23	2/25	1/5	12/24	11/25	10/27	9/13	8/21											
41532	23989	26644	31766	21220	18916	19021	8768	15388	32520	37978											
0.0643	0.0371	0.0412	0.0492	0.0328	0.0293	0.0294	0.0136	0.0238	0.0503	0.0588											

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