

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



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

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

**SECTION 1
GENERAL INFORMATION**

1. File Information:

APPLICATION # G-16289	PERMIT # (IF APPLICABLE) G-18483	PERMIT AMENDMENT # (IF APPLICABLE) T-13426
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2a. Property Owner (current owner information):

TL 4 1E 23 1801, TL 4 1E 24 1400, 1402, 3600, and TL 4 1E 24D 2000

APPLICANT/BUSINESS NAME Stephen and Mary Jane Koch Trust, Stephen and Mary Jane Koch Trustees		PHONE NO.	ADDITIONAL CONTACT NO.	
ADDRESS 27815 S. Elisha Road				
CITY Canby	STATE OR	ZIP 97013	E-MAIL	

2b. Property Owner (current owner information):

TL 4 1E 23 1600, 1701, TL 4 1E 24 1100, 1200

APPLICANT/BUSINESS NAME Donald L. Walch Trust, Donald L. Walch Trustee		PHONE NO.	ADDITIONAL CONTACT NO.	
ADDRESS 12738 S. Eby Road				
CITY Molalla	STATE OR	ZIP 97038	E-MAIL	

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2c. Property Owner (current owner information): TL 4 1E 24 1300

APPLICANT/BUSINESS NAME Madeline Walch Trust, Madeline Walch Trustee Note: Clackamas Tax Assessors not updated - Madeline has passed and now Donald L. Walch is Trustee		PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS 12738 S. Eby Road			
CITY Molalla	STATE OR	ZIP	E-MAIL 97038

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.

See Attached assignment for Donald L. Walch for:

TL 4 1E 23 1600, 1701, TL 4 1E 24 1100, 1200 and TL 4 1E 24 1300

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

PERMIT HOLDER OF RECORD Stephen and Mary Jane Koch Trust, Stephen and Mary Jane Koch Trustees		
ADDRESS 27815 S. Elisha Road		
CITY Canby	STATE OR	ZIP 97013

ADDITIONAL PERMIT HOLDER OF RECORD Northwest Farm Credit Services FLCA		
ADDRESS 650 Hawthorne Ave SE Suite 210		
CITY Salem	STATE OR	ZIP 97301

4. Date of Site Inspection:

July 28, 2023

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Steve Koch	July 28, 2023 September 14, 2023	Owner/operator and lessee
Don Walch	July 28, 2023	Owner/operator and lessor
Michelle Walch	July 28, 2023	Family representative, Daughter of Don Walch and cousin of Steve Koch

6. County

Clackamas

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)):

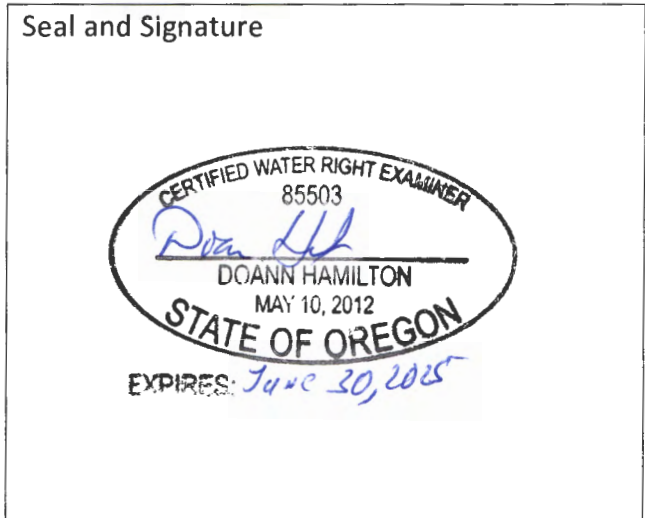
OWNER OF RECORD NA		
ADDRESS		
CITY	STATE	ZIP

Add additional tables for owners of record as needed

SECTION 2
SIGNATURES

CWRE Statement, Seal and Signature

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



CWRE NAME Doann Hamilton		PHONE NO. (503) 632-5016	ADDITIONAL CONTACT NO. (503) 349-6946
ADDRESS 18487 S. Valley Vista Road			
CITY Mulino	STATE OR	ZIP 97042	E-MAIL phgdmh@gmail.com

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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
<i>Stephen Koch</i>	Stephen Koch	owner	10-26-23
<i>Mary Jane Koch</i>	Mary Jane Koch	OWNER	10-26-23
<i>Adan Avila</i>	Adan Avila	RM AgWest Farm Credit	11-4-23

SECTION 3

CLAIM DESCRIPTION

1. Point of appropriation name or number:

POINT OF APPROPRIATION (POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
Well 1	CLAC 12500	NA
Well 2	CLAC 12469	NA
Well 3	CLAC 61795	L-78668
Well 4	CLAC 77990	L-146621

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 1	Dove Creek Basin	Molalla River
Well 2	Dove Creek Basin	Molalla River
Well 3	Dove Creek Basin	Molalla River
Well 4	Dove Creek Basin	Molalla River

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

POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
Well 1	Nursery	NA	Year round	3.20 cfs (theoretical maximum)
Well 2	Nursery	NA	Year round	2.61 cfs (theoretical maximum)
Well 3	Nursery	NA	Year round	2.39 cfs (theoretical maximum)
Well 4	Nursery	NA	Year round	2.48 cfs (theoretical maximum)
Total Quantity of Water Used				1.98 cfs (as limited by sprinkler system)

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 1 (CLAC 12500) using a 50 Hp submersible pump. Water is conveyed from the well to the north through a section of 6-inch, above-ground steel pipe with a meter attached before teeing off to the east and west. The mainline then goes underground connecting to 6-inch PVC. The 6-inch mainline to the west tees north and the mainline to the east tees north and south. Along these buried main lines are hydrants 150 feet apart where additional portable mainlines can be attached to reach additional areas for irrigation. These portable mainlines are also equipped with hydrants where the different irrigation systems can be attached: portable aluminum solid sets with impact sprinklers, hard hose travelers and/or linear. Several of the lines cross under roadways where six-inch PVC pipes are installed through steel conduit pipes which cross under the road.

Well 2 (CLAC 12469) has two submersible pumps inside the well, one for the house and the other for irrigation. The house line is separate coming out the top of the well head before the meter and goes through a pressure tank before going to the house. The 30 Hp irrigation pump runs on a variable speed drive regulated from 70-90 psi to convey water to the east through a section of 4-inch steel pipe with a meter attached before expanding to 5-inch steel pipe. Outside the pump house, the 5-inch steel line has an attachment for portable mainlines before heading underground under the driveway to a hydrant on the other side.

Well 2 connects to the 6-inch buried line located to the west, which runs north to south. There is a gate valve on this line to allow both wells to run at the same time and through the same line. When pressure lowers in Well 1 this affects the pressure in Well 2, which is controlled by the variable speed drive.

Well 3 (CLAC 61795) has two submersible pumps inside the well, one for the house and the other for irrigation. The house line tees off just past the well head before the meter and through a pressure tank for the house. The 20 Hp irrigation pump conveys water to the west through 4-inch steel pipe with a meter before going underground about 3 feet to a hydrant. Portable 5-inch mainlines can connect to this hydrant and supply water back to the rest of the system connecting to the 6-inch hydrant to the west before going under the road. Hydrants off this 5-inch portable mainline can supply water to this area.

Well 4 (CLAC 77990) was recently installed in May 2023. The well has a 40 Hp submersible pump which conveys water through 4-inch galvanized, above-ground steel pipe equipped with a meter

heading to the south. Temporarily, the line has a connection to a 4-inch poly hose which can be connected to a portable 5-inch aluminum, above-ground mainline extending to the east and connecting to a hydrant off the 6-inch buried mainline. Later a buried 5-inch PVC mainline will be permanently installed off the 6-inch mainline extending east to west where Well 4 will connect directly to the mainline.

Well 4 also has a variable speed drive. When pressure reduces in any of the other wells, Well 4 can vary its speed to compensate for the fluctuation. Note: Well 2 also has a variable speed drive. The two wells cannot operate at the same time on a variable speed drive. Depending on the need and areas being irrigate, either Well 2 or Well 4 can turn off the variable speed drive and just run regularly.

Irrigation is done by impact sprinklers, hard hose travelers and solid sets. Three lines of impact sprinklers (approximately 93 sprinklers) can be operated at one time, or 2 hard hose travelers, or one linear line. The hard hose travelers have booster pumps to aid in the distribution of water.

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.")

None

6. Claim Summary:

POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
Well 1	1.67 cfs from November 1 through May 31	3.20 cfs	Not Measured	Nursery	93.7	93.7
	1.3 cfs from June 1 through October 31					
Well 2	1.67 cfs from November 1 through May 31	2.61 cfs	Not Measured			
	1.3 cfs from June 1 through October 31					
Well 3	1.67 cfs from November 1 through May 31	2.39 cfs	Not Measured			
	1.3 cfs from June 1 through October 31					
Well 4	1.67 cfs from November 1 through May 31	2.48 cfs	Not Measured			
	1.3 cfs from June 1 through October 31					

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**SECTION 4a of 4d
SYSTEM DESCRIPTION**

Are there multiple POAs?

YES

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

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

Well 1

A. Place of Use

1. Is the right for municipal use?

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
4S	1E	WM	23	NE NE	NA	NA	Nursery	9.3	NA
4S	1E	WM	23	SE NE	NA	NA	Nursery	30.0	NA
4S	1E	WM	23	SE SE	NA	NA	Nursery	7.3	NA
4S	1E	WM	24	NW NW	NA	NA	Nursery	11.3	NA
4S	1E	WM	24	SW NW	NA	NA	Nursery	6.4	NA
4S	1E	WM	24	NW SW	NA	NA	Nursery	29.4	NA
Total Acres Irrigated								93.7	NA

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

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:

½ inch plastic plug on the east side of the well through the sanitary seal.

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

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
See Well Log CLAC 12500						

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.

See Well Log CLAC 12500

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C. Groundwater Source Information (Sump)

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

NO

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

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

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:

SOURCE	MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Well 1	Franklin	STS 350	Unknown	Submersible	8 inch	6 inch
Hard hose traveler - 1	Cornell	3RB-EM16-4	221919 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 2	Franklin	XS439	12D19-24-05066P	Centrifugal	3 inch	3 inch
Hard hose traveler - 3	Cornell	3RB-EM16-4	84769 12.8	Centrifugal	3 inch	3 inch
Hard hose traveler - 4	Cornell	3RB-EM16-4	214852 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 5	Cornell	3RB-EM16-4	205395 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 6	Cornell	3RB-EM16-4	147387 12.88	Centrifugal	3 inch	3 inch

3. Motor Information:

SOURCE	MANUFACTURER	HORSEPOWER
Well 1	Franklin	50 Hp
Hard hose traveler - 1	John Deere 4239DF001 SN TO4239D169369	80 Hp
Hard hose traveler - 2	Deutz Diesel Model F3L912 SN 7075394	80 Hp
Hard hose traveler - 3	John Deere 4039DF001 SN TO4039D458510	92 Hp
Hard hose traveler - 4	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 5	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 6	John Deere 4045DF270 SN PE4045D669765	74 Hp

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4. Theoretical Pump Capacity:

SOURCE	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)
Well 1	50 Hp	70 psi	97 feet (from permit condition pump test)	0 feet	1.28 cfs
Well 1 + hard hose traveler – 1	50 Hp well + 80 Hp booster	80 psi	97 feet (from permit condition pump test)	0 feet	2.93 cfs
Well 1 + hard hose traveler – 2	50 Hp well + 80 Hp booster	80 psi	97 feet (from permit condition pump test)	0 feet	2.93 cfs
Well 1 + hard hose traveler – 3	50 Hp well + 92 Hp booster	80 psi	97 feet (from permit condition pump test)	0 feet	3.20 cfs
Well 1 + hard hose traveler – 4	50 Hp well + 50 Hp booster	80 psi	97 feet (from permit condition pump test)	0 feet	2.27 cfs
Well 1 + hard hose traveler – 5	50 Hp well + 50 Hp booster	80 psi	97 feet (from permit condition pump test)	0 feet	2.27 cfs
Well 1 + hard hose traveler – 6	50 Hp well + 74 Hp booster	80 psi	97 feet (from permit condition pump test)	0 feet	2.80 cfs

5. Provide pump calculations:

Q Pump from Well 1 (70 psi) = $\frac{(50 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP})}{(97 \text{ ft lift} + 177.8 \text{ ft pressure head})} = 1.28 \text{ cfs}$
Q Pump from Well 1 + traveler 1 = $\frac{(50 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(97 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.93 \text{ cfs}$
Q Pump from Well 1 + traveler 2 = $\frac{(50 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(97 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.93 \text{ cfs}$
Q Pump from Well 1 + traveler 3 = $\frac{(50 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (92 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(97 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 3.20 \text{ cfs}$
Q Pump from Well 1 + traveler 4 = $\frac{(50 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(97 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.27 \text{ cfs}$
Q Pump from Well 1 + traveler 5 = $\frac{(50 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(97 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.27 \text{ cfs}$
Q Pump from Well 1 + traveler 6 = $\frac{(50 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (74 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(97 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.80 \text{ cfs}$

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)
Not running during site visit			

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

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7. Is the distribution system piped?

YES

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

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
6 inch	15 feet	Steel	Above ground
Mainlines common to all wells			
6 inch	~ 7,000 feet	PVC	Buried
6 inch	~ 5,500 feet	PVC	Above ground
5 inch	~ 4,600 feet	PVC	Above ground

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
4.1 inch hard hose traveler	8,550 feet	Poly hose	Above
4 inch for linear	660 feet	Poly hose	Above
5 inch	~ 10,000 feet	Aluminum	Above
3 inch	~ 10,000 feet	Aluminum	Above
2 inch	~ 27,000 feet	Aluminum	Above
1 inch risers	~ 675 feet	Aluminum	Above

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
Komet nozzle 0.98 inch	80 psi	243 gpm	2	2	1.98 cfs
Nelson SR150 nozzle 1.0 inch	80 psi	260 gpm	2		
Komet nozzle 1.08 inch	80 psi	294 gpm	2		
Nelson SR150 nozzle 1.1 inch	80 psi	315 gpm	3		
Komet nozzle 1.18 inch	80 psi	350 gpm	2		
Nelson SR150 nozzle 1.2 inch	80 psi	380 gpm	2		
Nelson SR150 nozzle 1.3 inch	80 psi	445 gpm	2		
Rainbird 30WS 11/64 inch	65 psi	6.9 gpm	2,000	93	1.43 cfs (642 gpm)
Linear	40 psi	400 gpm	2	1	0.89 cfs (400 gpm)

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

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11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)
NA					

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
NA					

13. Pivot Information:

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

E. Storage

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

NO

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

F. Gravity Flow Pipe

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

1. Does the system involve a gravity flow pipe?

NO

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

G. Gravity Flow Canal or Ditch

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

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

NO

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

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H. Additional notes or comments related to the system:

Well 1 (CLAC 12500) also supplies the following water rights: Certificates 51320, 52594, 68116 and 94707 of which all are inchoate under T-13425.

All wells can run at the same time through the same line.

Well 2 and Well 4 are controlled by variable speed drives. Once the pressure drops in Well 1 or Well 3, either Well 2 or Well 4 will start up and supply the additional volume needed to meet the system demands.

Note: Both Well 2 and Well 4 cannot not be on a variable speed drive mode at the same time, so sometimes the variable speed drive is turned off on one of the two wells.

**SECTION 4b of 4d
SYSTEM DESCRIPTION**

Are there multiple POAs? YES

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

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

Well 2

A. Place of Use

1. Is the right for municipal use? 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
4S	1E	WM	23	NE NE	NA	NA	Nursery	9.3	NA
4S	1E	WM	23	SE NE	NA	NA	Nursery	30.0	NA
4S	1E	WM	23	SE SE	NA	NA	Nursery	7.3	NA
4S	1E	WM	24	NW NW	NA	NA	Nursery	11.3	NA
4S	1E	WM	24	SW NW	NA	NA	Nursery	6.4	NA
4S	1E	WM	24	NW SW	NA	NA	Nursery	29.4	NA
Total Acres Irrigated								93.7	NA

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.

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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:

½ inch opening on north side of the sanitary seal.

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

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
See Well Log CLAC 12469						

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.

See Well Log CLAC 12469

C. Groundwater Source Information (Sump)

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

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

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

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:

SOURCE	MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Well 2	Gould	6CHC	Unknown	Submersible	6 inch	4 inch
Hard hose traveler - 1	Cornell	3RB-EM16-4	221919 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 2	Franklin	XS439	12D19-24-05066P	Centrifugal	3 inch	3 inch
Hard hose traveler - 3	Cornell	3RB-EM16-4	84769 12.8	Centrifugal	3 inch	3 inch
Hard hose traveler - 4	Cornell	3RB-EM16-4	214852 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 5	Cornell	3RB-EM16-4	205395 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 6	Cornell	3RB-EM16-4	147387 12.88	Centrifugal	3 inch	3 inch

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3. Motor Information:

SOURCE	MANUFACTURER	HORSEPOWER
Well 2	Franklin	30 Hp
Hard hose traveler - 1	John Deere 4239DF001 SN TO4239D169369	80 Hp
Hard hose traveler - 2	Deutz Diesel Model F3L912 SN 7075394	80 Hp
Hard hose traveler - 3	John Deer 4039DF001 SN TO4039D458510	92 Hp
Hard hose traveler - 4	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 5	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 6	John Deere 4045DF270 SN PE4045D669765	74 Hp

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4. Theoretical Pump Capacity:

SOURCE	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)
Well 2	30 Hp	70-90 psi	110.3 feet (calculated from specific capacity from permit condition pump test)	0 feet	0.73 to 0.62 cfs
Well 2 + hard hose traveler - 1	30 Hp well + 80 Hp booster	80 psi	110.3 feet (calculated from specific capacity from permit condition pump test)	0 feet	2.36 cfs
Well 2 + hard hose traveler - 2	30 Hp well + 80 Hp booster	80 psi	110.3 feet (calculated from specific capacity from permit condition pump test)	0 feet	2.36 cfs
Well 2 + hard hose traveler - 3	30 Hp well + 92 Hp booster	80 psi	110.3 feet (calculated from specific capacity from permit condition pump test)	0 feet	2.61 cfs
Well 2 + hard hose traveler - 4	30 Hp well + 50 Hp booster	80 psi	110.3 feet (calculated from specific capacity from permit condition pump test)	0 feet	1.73 cfs
Well 2 + hard hose traveler - 5	30 Hp well + 50 Hp booster	80 psi	110.3 feet (calculated from specific capacity from permit condition pump test)	0 feet	1.73 cfs
Well 2 + hard hose traveler - 6	30 Hp well + 74 Hp booster	80 psi	110.3 feet (calculated from specific capacity from permit condition pump test)	0 feet	2.23 cfs

5. Provide pump calculations:

$$Q \text{ Pump from Well 2 (70 psi)} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 177.8 \text{ ft pressure head})} = 0.73 \text{ cfs}$$

$$Q \text{ Pump from Well 2 (90 psi)} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 228.6 \text{ ft pressure head})} = 0.62 \text{ cfs}$$

$$Q \text{ Pump from Well 2 + traveler 1} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.36 \text{ cfs}$$

$$Q \text{ Pump from Well 2 + traveler 2} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.36 \text{ cfs}$$

$$Q \text{ Pump from Well 2 + traveler 3} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (92 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.61 \text{ cfs}$$

$$Q \text{ Pump from Well 2 + traveler 4} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 1.73 \text{ cfs}$$

$$Q \text{ Pump from Well 2 + traveler 5} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 1.73 \text{ cfs}$$

$$Q \text{ Pump from Well 2 + traveler 6} = \frac{(30 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (74 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.23 \text{ cfs}$$

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)
Not running during site visit			

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
4 inch	15 feet	Steel	Above
5 inch	15 feet	Steel	Above
See Well 1 for the rest of the mainlines			

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
See Well 1			

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10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
See Well 1					

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)
NA					

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
NA					

13. Pivot Information:

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

E. Storage

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

NO

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

F. Gravity Flow Pipe

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

1. Does the system involve a gravity flow pipe?

NO

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

G. Gravity Flow Canal or Ditch

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

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

NO

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

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H. Additional notes or comments related to the system:

Well 2 (CLAC 12469) also supplies water rights: Certificates 51320, 52594, 68116 and 94707 of which all are inchoate under T-13425.

Well 2 also supplies a house.

There are two pumps inside the well: one for the house and one for irrigation.

The house line is separate, coming out the top of the well head before the meter and goes through a pressure tank before going to the house.

All wells can run at the same time through the same line.

Well 2 and Well 4 are controlled by variable speed drives. Once the pressure drops in Well 1 or Well 3, either Well 2 or Well 4 will start up and supply the additional volume needed to meet the system demands.

Note: Both Well 2 and Well 4 cannot not be on a variable speed drive mode at the same time, so sometimes the variable speed drive is turned off on one of the two wells.

While the pump capacity calculations show that Well 2 has a maximum pump capacity of 0.73 cfs (327.6 gpm) without a booster pump, Steve Koch reports that Well 2 can pump at a maximum rate of 350 gpm.

**SECTION 4c of 4d
SYSTEM DESCRIPTION**

Are there multiple POAs?

YES

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

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

Well 3

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A. Place of Use

1. Is the right for municipal use?

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
4S	1E	WM	23	NE NE	NA	NA	Nursery	9.3	NA
4S	1E	WM	23	SE NE	NA	NA	Nursery	30.0	NA
4S	1E	WM	23	SE SE	NA	NA	Nursery	7.3	NA
4S	1E	WM	24	NW NW	NA	NA	Nursery	11.3	NA
4S	1E	WM	24	SW NW	NA	NA	Nursery	6.4	NA
4S	1E	WM	24	NW SW	NA	NA	Nursery	29.4	NA
Total Acres Irrigated								93.7	NA

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

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 a 1/2-inch vent port which is installed in the well seal on the south side of the well.

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

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
See Well Log CLAC 61795						

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.

See Well Log CLAC 61795

C. Groundwater Source Information (Sump)

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

NO

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

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

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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:

SOURCE	MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Well 3	Berkeley	6T 200	Unknown	Submersible	6 inch	4 inch
Hard hose traveler - 1	Cornell	3RB-EM16-4	221919 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 2	Franklin	XS439	12D19-24-05066P	Centrifugal	3 inch	3 inch
Hard hose traveler - 3	Cornell	3RB-EM16-4	84769 12.8	Centrifugal	3 inch	3 inch
Hard hose traveler - 4	Cornell	3RB-EM16-4	214852 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 5	Cornell	3RB-EM16-4	205395 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 6	Cornell	3RB-EM16-4	147387 12.88	Centrifugal	3 inch	3 inch

3. Motor Information:

SOURCE	MANUFACTURER	HORSEPOWER
Well 3	Unknown	20 Hp
Hard hose traveler - 1	John Deere 4239DF001 SN TO4239D169369	80 Hp
Hard hose traveler - 2	Deutz Diesel Model F3L912 SN 7075394	80 Hp
Hard hose traveler - 3	John Deere 4039DF001 SN TO4039D458510	92 Hp
Hard hose traveler - 4	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 5	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 6	John Deere 4045DF270 SN PE4045D669765	74 Hp

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4. Theoretical Pump Capacity:

SOURCE	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)
Well 3	20 Hp	70 psi	110.3 feet (Estimated based on pumping test for Well 2)	0 feet	0.49 cfs
Well 3 + hard hose traveler - 1	20 Hp well + 80 Hp booster	80 psi	110.3 feet (Estimated based on pumping test for Well 2)	0 feet	2.14 cfs

Well 3 + hard hose traveler – 2	20 Hp well + 80 Hp booster	80 psi	110.3 feet (Estimated based on pumping test for Well 2)	0 feet	2.14 cfs
Well 3 + hard hose traveler – 3	20 Hp well + 92 Hp booster	80 psi	110.3 feet (Estimated based on pumping test for Well 2)	0 feet	2.39 cfs
Well 3 + hard hose traveler – 4	20 Hp well + 50 Hp booster	80 psi	110.3 feet (Estimated based on pumping test for Well 2)	0 feet	1.50 cfs
Well 3 + hard hose traveler – 5	20 Hp well + 50 Hp booster	80 psi	110.3 feet (Estimated based on pumping test for Well 2)	0 feet	1.50 cfs
Well 3 + hard hose traveler – 6	20 Hp well + 74 Hp booster	80 psi	110.3 feet (Estimated based on pumping test for Well 2)	0 feet	2.01 cfs

5. Provide pump calculations:

$$Q \text{ Pump from Well 3 (70 psi)} = \frac{(20 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 177.8 \text{ ft pressure head})} = 0.49 \text{ cfs}$$

$$Q \text{ Pump from Well 3 + traveler 1} = \frac{(20 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.14 \text{ cfs}$$

$$Q \text{ Pump from Well 3 + traveler 2} = \frac{(20 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.14 \text{ cfs}$$

$$Q \text{ Pump from Well 3 + traveler 3} = \frac{(20 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (92 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.39 \text{ cfs}$$

$$Q \text{ Pump from Well 3 + traveler 4} = \frac{(20 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 1.50 \text{ cfs}$$

$$Q \text{ Pump from Well 3 + traveler 5} = \frac{(20 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 1.50 \text{ cfs}$$

$$Q \text{ Pump from Well 3 + traveler 6} = \frac{(20 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (74 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(110.3 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.01 \text{ cfs}$$

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)
Not running during site visit			

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

7. Is the distribution system piped?

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

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8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
4 inch	15 feet	Steel	Above
See Well 1 for the rest of the mainlines			

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
See Well 1			

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
See Well 1					

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)
NA					

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
NA					

13. Pivot Information:

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

E. Storage

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

NO

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

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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G. Gravity Flow Canal or Ditch

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

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

NO

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

H. Additional notes or comments related to the system:

Well 3 (CLAC 61795) also supplies water rights: Certificates 51320, 52594, 68116 and 94707 of which all are inchoate under T-13425.

Well 3 also supplies a house.

There are two pumps inside the well: one for the house and one for irrigation.

The house line tees off just past the well head before the meter and then connects to a pressure tank for the house.

All wells can run at the same time through the same line.

Well 2 and Well 4 are controlled by variable speed drives. Once the pressure drops in Well 1 or Well 3, either Well 2 or Well 4 will start up and supply the additional volume needed to meet the system demands.

Note: Both Well 2 and Well 4 cannot not be on a variable speed drive mode at the same time, so sometimes the variable speed drive is turned off on one of the two wells.

SECTION 4d of 4d SYSTEM DESCRIPTION

Are there multiple POAs?

YES

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

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

Well 4

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A. Place of Use

1. Is the right for municipal use?

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
4S	1E	WM	23	NE NE	NA	NA	Nursery	9.3	NA
4S	1E	WM	23	SE NE	NA	NA	Nursery	30.0	NA
4S	1E	WM	23	SE SE	NA	NA	Nursery	7.3	NA
4S	1E	WM	24	NW NW	NA	NA	Nursery	11.3	NA
4S	1E	WM	24	SW NW	NA	NA	Nursery	6.4	NA
4S	1E	WM	24	NW SW	NA	NA	Nursery	29.4	NA
Total Acres Irrigated								93.7	NA

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

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:

1- 3/4 inch galvanized vent port through the sanitary seal on the west side of the well which accesses a 3/4 inch PVC dedicated measuring tube installed in the well seal.

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

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
See Well Log CLAC 77990						

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.

See Well Log CLAC 77990

C. Groundwater Source Information (Sump)

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

NO

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

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

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

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

2. Pump Information:

SOURCE	MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Well 4	Grundfos	300S 400-11	PPB 059 23-6	Submersible	6 inch	4 inch
Hard hose traveler - 1	Cornell	3RB- EM16-4	221919 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 2	Franklin	XS439	12D19-24- 05066P	Centrifugal	3 inch	3 inch
Hard hose traveler - 3	Cornell	3RB- EM16-4	84769 12.8	Centrifugal	3 inch	3 inch
Hard hose traveler - 4	Cornell	3RB- EM16-4	214852 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 5	Cornell	3RB- EM16-4	205395 12.88	Centrifugal	3 inch	3 inch
Hard hose traveler - 6	Cornell	3RB- EM16-4	147387 12.88	Centrifugal	3 inch	3 inch

3. Motor Information:

SOURCE	MANUFACTURER	HORSEPOWER
Well 4	Grundfos	40 Hp
Hard hose traveler - 1	John Deere 4239DF001 SN TO4239D169369	80 Hp
Hard hose traveler - 2	Deutz Diesel Model F3L912 SN 7075394	80 Hp
Hard hose traveler - 3	John Deer 4039DF001 SN TO4039D458510	92 Hp
Hard hose traveler - 4	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 5	Isuzu AV-4LE1	50 Hp
Hard hose traveler - 6	John Deere 4045DF270 SN PE4045D669765	74 Hp

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4. Theoretical Pump Capacity:

SOURCE	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)
Well 4	40 Hp	70 psi	155.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	0.85 cfs
Well 4	40 Hp	90 psi	146.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	0.75 cfs
Well 4 + hard hose traveler – 1	40 Hp well + 80 Hp booster	80 psi	155.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	2.26 cfs
Well 4 + hard hose traveler – 2	40 Hp well + 80 Hp booster	80 psi	155.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	2.26 cfs
Well 4 + hard hose traveler – 3	40 Hp well + 92 Hp booster	80 psi	155.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	2.48 cfs
Well 4 + hard hose traveler – 4	40 Hp well + 50 Hp booster	80 psi	155.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	1.71 cfs
Well 4 + hard hose traveler – 5	40 Hp well + 50 Hp booster	80 psi	155.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	1.71 cfs
Well 4 + hard hose traveler – 6	40 Hp well + 74 Hp booster	80 psi	155.1 feet (calculated based on specific capacity from permit condition pump test)	0 feet	2.15 cfs

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5. Provide pump calculations:

$$Q \text{ Pump from Well 4 (70 psi)} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP})}{(155.1 \text{ ft lift} + 177.8 \text{ ft pressure head})} = 0.85 \text{ cfs}$$

$$Q \text{ Pump from Well 4 (90 psi)} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP})}{(146.1 \text{ ft lift} + 228.6 \text{ ft pressure head})} = 0.75 \text{ cfs}$$

$$Q \text{ Pump from Well 4 + traveler 1} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(155.1 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.26 \text{ cfs}$$

$$Q \text{ Pump from Well 4 + traveler 2} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (80 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(155.1 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.26 \text{ cfs}$$

$$Q \text{ Pump from Well 4 + traveler 3} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (92 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(155.1 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.48 \text{ cfs}$$

$$Q \text{ Pump from Well 4 + traveler 4} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(155.1 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 1.71 \text{ cfs}$$

$$Q \text{ Pump from Well 4 + traveler 5} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (50 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(155.1 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 1.71 \text{ cfs}$$

$$Q \text{ Pump from Well 4 + traveler 6} = \frac{(40 \text{ Hp}) (7.04 \text{ ft}^4/\text{sec HP}) + (74 \text{ Hp}) (6.61 \text{ ft}^4/\text{sec HP})}{(155.1 \text{ ft lift} + 203.2 \text{ ft pressure head})} = 2.15 \text{ cfs}$$

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)
Not running during site visit			

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
4 inch	15 feet	Galvanized	Above ground
3 inch	15 feet	Galvanized	Above ground
4 inch	15 feet	Poly	Above ground
5 inch	~1,000 feet	Aluminum	Above ground
See Well 1 for the rest of the mainlines			

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9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
See Well 1			

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
See Well 1					

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)
NA					

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
NA					

13. Pivot Information:

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

E. Storage

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

NO

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

F. Gravity Flow Pipe

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

1. Does the system involve a gravity flow pipe?

NO

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

G. Gravity Flow Canal or Ditch

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

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

NO

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

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H. Additional notes or comments related to the system:

Well 4 (CLAC 77990) also supplies water rights: Certificates 51320, 52594, 68116 and 94707 of which all are inchoate under T-13425.

All wells can run at the same time through the same line.

Well 2 and Well 4 are controlled by variable speed drives. Once the pressure drops in Well 1 or Well 3, either Well 2 or Well 4 will start up and supply the additional volume needed to meet the system demands.

Note: Both Well 2 and Well 4 cannot not be on a variable speed drive mode at the same time, so sometimes the variable speed drive is turned off on one of the two wells.

**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	Permit G-15950: August 11, 2005 Permit G-18472: August 11, 2020 Permit G-18483 CR: October 15, 2020		
BEGIN CONSTRUCTION (A)	NA	NA	NA
COMPLETE CONSTRUCTION (B)	Permit G-15950: NA Permit G-18472 and Permit G-18483 CR: October 1, 2023	July 2023	Completed construction of the entire system and applied water to the full allowed rate. <div style="text-align: right; color: blue; font-weight: bold;">RECEIVED</div> <div style="text-align: right; color: red;">NOV 17 2023</div>

COMPLETE APPLICATION OF WATER (C)	Permit G-15950: October 1, 2009 extended to October 1, 2018 extended to October 1, 2023	July 2023	All the permit conditions were met and water was put to full use.
-----------------------------------	--	-----------	---

* 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? YES and NO

Yes for: Extension from October 1, 2009 to October 1, 2018 due October 1, 2017

No for: Extension from October 1, 2018 to October 1, 2023

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

b. Were the Progress Reports submitted? YES

Received September 8, 2017

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

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

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

March

c. Was the measurement submitted to the Department? YES

Note: Well 4 (CLAC 77990) was not completed until May 2, 2023: therefore, a March 2023 water level measurement could not be made. The first water level in Well 4 will be measured in March 2024

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

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
NA			

4. Annual Static Water Level Measurements: Initial + 7

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

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

Note: Well 4 (CLAC 77990) was not completed until May 2, 2023; therefore a March 2023 water level measurement could not be made. The first water level in Well 4 will be measured in March 2024.

d. If "YES", were those measurements submitted to the Department? YES

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

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
NA			

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 and NO**

Yes: For Well 1 (CLAC 12500) and Well 2 (CLAC 12469) Under Permit G-11754

Yes: For Well 4 (CLAC 77990) submitted to OWRD on June 29, 2023

No: For Well 3 (CLAC 61795)

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

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

Yes for Well 1 (CLAC 12500) and Well 2 (CLAC 12469) by issuance of Certificate 94707

Unknown for Well 4 (CLAC 77990)

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

Need multi-well exemption for Well 1 (CLAC 12500) and Well 2 (CLAC 12469) under this Permit G-18483 and Well 3 (CLAC 61795) – See attached

**** 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**

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c. Meter Information

POD/PO A NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well 1	McCrometer	23-06037-06	Working	81,700 gallons (November 5, 2018)	Replacement meter installed: August 29, 2023
Well 2	McCrometer	00-3857-4	Working	253,060 cubic feet (July 28, 2023)	2005
Well 3	McCrometer	Un-readable	Working	49,175,800 gallons (July 28, 2023)	2005
Well 4	McCrometer	23-04028-04	Working	1,180,200 gallons (July 28, 1023)	June 2023

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

WELL	WELL ID #	DATE ATTACHED TO WELL
Well 1	CLAC 12500	NA
Well 2	CLAC 12469	NA
Well 3	CLAC 61795	L-78668
Well 4	CLAC 77990	L-146621

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e. Other conditions? **YES**

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

e) Condition:
The well(s) shall produce groundwater only from the alluvial sediment groundwater reservoir.

Compliance:
Well 1 (CLAC 12500) develops water from the alluvial aquifer within the depth intervals of 170 to 180 feet, 230 to 245 feet, 365 to 375 feet, 390 to 395 feet (perforated intervals), and 434-446

(below bottom of casing) within layers of claystone, sand and gravel.

Well 2 (CLAC 12469) develops water from the alluvial aquifer within the depth intervals of 80 to 90 feet, 111 to 113 feet, 124 to 126 feet, and 152 to 188 feet (perforated intervals) within layers of gravel and sand.

Well 3 (CLAC 61795) develops water from the alluvial aquifer primarily within the depth interval of 180 to 212 feet within layers of sand.

Well 4 (CLAC 77990) develops water from the alluvial aquifer within the screened intervals of 214 to 230 feet, 242 to 248 feet, 356 to 365 feet, 374 to 378 feet, and 392 to 396 feet within layers of claystone, silt, siltstone, and sand.

It appears these wells obtain water from the alluvial aquifer; therefore, this condition has been met.

SECTION 6 ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION
Claim of Beneficial Use Map	Claim of Beneficial Use Map
State Water Well Report – CLAC 12500	Well log and driller’s notes for CLAC 12500 – Well 1
State Water Well Report – CLAC 12469	Well log and driller’s notes for CLAC 12469 – Well 2
State Water Well Report – CLAC 61795	Well log and driller’s notes for CLAC 61795 – Well 3
State Water Well Report – CLAC 77990	Well log and driller’s notes for CLAC 77990 – Well 4
Pump Test Multiple Well Exemption Request Form	Pump Test Multiple Well Exemption Request Form for Well 1 (CLAC 12500), Well 2 (CLAC 12469), and Well 3 (CLAC 61795)
Request for Assignment	Assignment of a portion of Permit G-18483 to Donald L. Walch
Assignment Map	Assignment Map accompany the assignment to assign a portion of Permit G-18483 to Donald L. Walch

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.

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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.

The COBU map was prepared using tax assessor's maps 4 1E 23, 24, and 24D, overlain by a 2014 aerial photo titled USDA-FSA-APFO NAIP County Mosaic and obtained on line from the Natural Resources Conservation Service, Image Metadata:
<http://datagateway.nrcs.usda.gov/Catalog/ProductDescription/NAIPM.html>.

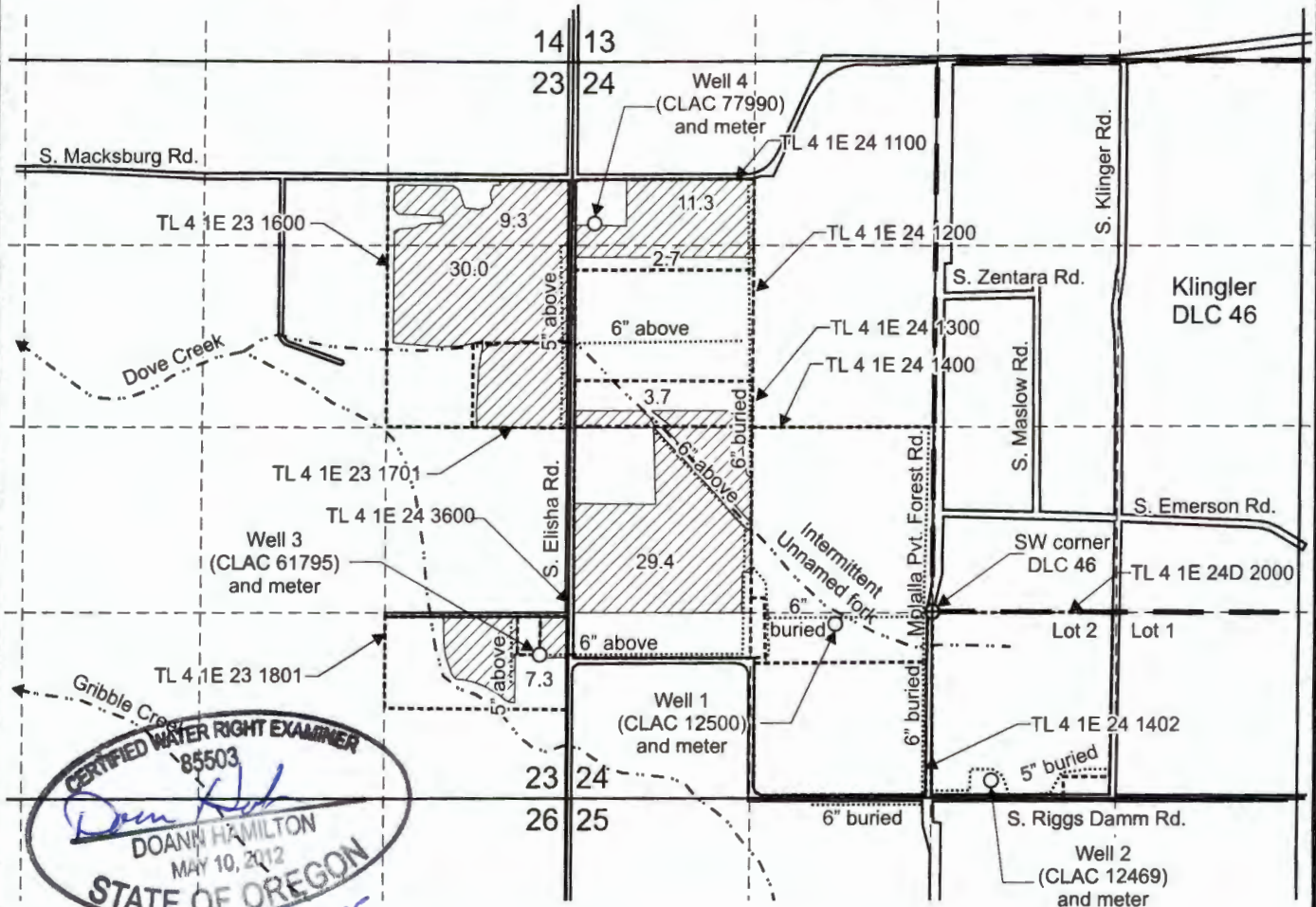
Map Checklist

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

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

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T.4S. R.1E. Sec. 23, 24 & 25, W.M.



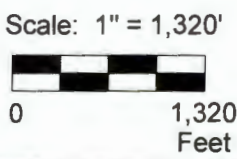
CERTIFIED WATER RIGHT EXAMINER
 85503
Doann Hamilton
 DOANN HAMILTON
 MAY 10, 2012
 STATE OF OREGON
 EXPIRES: *June 30, 2025*

Well 1 (CLAC 12500) is located 1,250 feet north and 1,950 feet east from the SW corner, Section 24.
 Well 2 (CLAC 12469) is located 1,210 feet south and 430 feet east from the SW corner, DLC 46.
 Well 3 (CLAC 61795) is located 1,040 feet north and 200 feet west from the SE corner, Section 23.
 Well 4 (CLAC 77990) is located 1,160 feet south and 160 feet east from the NW corner, Section 24.

 Area (93.7 Acres), nursery use under Application G-16289, Permit G-18483.

-  Donation Land Claim boundary
-  Tax lot boundary
-  Irrigation mainlines

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This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership lines.

Claim of Beneficial Use Map
 Application G-16289, Permit G-18483, T-13426

Pacific Hydro-Geology Inc.

Steve Koch
 T.4S. R.1E. Sec. 23, 24 & 25, W.M.

10/2023

KochG-16289COBUMap.cdr

CLAG

12500

NC

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310

within 30 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON

Please type or print

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State Well No.

4/1-24A

State Permit No.

G-4654

(1) OWNER:

Name Rufus Krueberger & Joe Graves
Address Rt 3 Box 184
Conroy Ore.

(2) LOCATION OF WELL:

County Clackamas Driller's well number
NE 1/4 SW 1/4 Section 24 T. 45 S. R. 1E W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

New Well [X] Deepening [] Reconditioning [] Abandon []
Abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal []
Irrigation [X] Test Well [] Other []
Rotary [] Cable [X] Dug []
Driven [] Jetted [] Bored []

(5) TYPE OF WELL:

(6) CASING INSTALLED:

10" Diam. from 0 ft. to 4.34 ft. Gage 1250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? [X] Yes [] No
Type of perforator used Steer 4 way
Size of perforations 1/4 in. by 2 in.
2.00 perforations from 1.70 ft. to 1.80 ft.
3.00 perforations from 2.30 ft. to 2.45 ft.
2.00 perforations from 3.65 ft. to 3.75 ft.
2.00 perforations from 3.90 ft. to 3.95 ft.

(8) SCREENS:

Well screen installed? [] Yes [X] No
Manufacturer's Name
Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Well seal—Material used in seal Gravel
Depth of seal 4.0 ft. Was a packer used? [X] No
Diameter of well bore to bottom of seal 16 in.
Were any loose strata cemented off? [] Yes [X] No Depth
Was a drive shoe used? [X] Yes [] No
Was well gravel packed? [] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.
Did any strata contain unusable water? [] Yes [X] No
Type of water? depth of strata
Method of sealing strata off

(10) WATER LEVELS:

Static level 17 ft. below land surface Date 8-11
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? [X] Yes [] No If yes, by whom? Miller
Yield: 500 gal./min. with 73 ft. drawdown after 4 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 53° Was a chemical analysis made? [] Yes [X] No

(12) WELL LOG:

Diameter of well below casing 10
Depth drilled 446 ft. Depth of completed well 446 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

Table with columns: MATERIAL, FROM, TO. Rows include Top soil, Dark Brown silt & clay, Cement & gravel (Brown), Clay (Green), Clay Gray, Clay & sand (water), Clay Dark Blue, Clay Gray, Clay (Reddish brown), Sand (course) water, Clay (Gray), Clay (Dark Blue), Clay (Green), Clay (Dark), Clay & fine gravel, Clay (Dark Blue), Clay Stone (Crumbles) water, Clay (Gray), Clay & Dark silt, Sand (water).

NOV 17 2023

Work started 5-17 1966 Completed 8-11 1966
Date well grilling machine moved off of well 8-11 1966

(13) PUMP:

Manufacturer's Name
Type: H.P.

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 John W Beck well drilling
(Person, firm or corporation) (Type or print)

Address Rt 3 Box 45 Conroy Ore.

Drilling Machine Operator's License No. 437
[Signed] John W Beck
(Water Well Contractor)

Contractor's License No. 449 Date 8-12 1966

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

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

(Do not write above this line)

CLAC

State Well No. H9/1E-24

State Permit No. _____

(1) OWNER:

Name Mrs. John Koch
Address 11585 S. Riggs Damm Rd.
Canby, Oregon

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded

" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? Yes No.

Type of perforator used _____

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

(7) SCREENS:

Well screen installed? Yes No

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

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom? _____

Yield:	gal./min. with	ft. drawdown after	hrs.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Baller test gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow g.p.m. _____
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used _____
Well sealed from land surface to _____ ft.
Diameter of well bore to bottom of seal _____ in.
Diameter of well bore below seal _____ in.
Number of sacks of cement used in well seal _____ sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite _____
Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.
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 Clackamas Driller's well number _____
SW 1/4 SE 1/4 Section 24 T. 4S R. 1E W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found _____ ft.
Static level _____ ft. below land surface. Date _____
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing _____

Depth drilled _____ ft. Depth of completed well _____ 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
Cont.			
Clay, purple, sandy	188	192	
Clay, grey	192	201	
Sandstone, formation black	201	218	26
Clay, grey, sandy	218	221	
Clay, grey	221	227	

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JAN 6 1976

WATER RESOURCES DEPT.
SALEM, OREGON

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NOV 17 2023

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Work started 10/16 19 75 Completed 12/18 19 75
Date well drilling machine moved off of well 12/18 19 75

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] C. G. Westerberg Date 12/19, 19 75
(Drilling Machine Operator) 86

Drilling Machine Operator's License No. _____

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 C. G. Westerberg
(Person, firm or corporation) (Type or print)

Address Rt. 1, Box 151, Mulino, Oregon

[Signed] C. G. Westerberg
(Water Well Contractor)

Contractor's License No. 86 Date 12/19, 19 75

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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.700)

NOV 23 2005
WATER RESOURCES DEPT.
SALEM, OREGON

Westerberg Drilling, Inc.
36728 S. Kropf Rd.
Astoria, OR 97038

WELL I.D. # L 78668

START CARD # 182473

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

(1) LAND OWNER Well Number _____
Name Steve Koch
Address 27815 S. Elisha Rd.
City Canby State OR Zip 97013

(2) TYPE OF WORK New Well
 Deepening Alteration (repair/recondition) Abandonment Conversion

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Other _____

(4) PROPOSED USE
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other _____

(5) BORE HOLE CONSTRUCTION Special Construction: Yes No
Depth of Completed Well 250 ft.
Explosives used: Yes No Type _____ Amount _____

BORE HOLE			SEAL			Sacks or Pounds
Diameter	From	To	Material	From	To	
12"	0	45	Bentonite	0	45	45 sacks
8"	45	250				

How was seal placed: Method A B C D E
 Other Bentonite placed dry

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"	+1.5'	248	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: None				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None
Final location of shoe(s) 248'

(7) PERFORATIONS/SCREENS
 Perforations Method Holte Air perforator
 Screens Type _____ Material _____

From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
180	212	1/8x3	1920			<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
200	N/A	160'	1 hr.

Temperature of water 56 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: _____

(9) LOCATION OF WELL (legal description)
County Clackamas
Tax Lot 1801 Lot _____
Township 4 S Range 1 E WM
Section 23 SE 1/4 SE 1/4

Lat _____ " or _____ (degrees or decimal)
Long _____ " or _____ (degrees or decimal)

Street Address of Well (or nearest address) 27815 S. Elisha Rd.
Canby, OR 97013

(10) STATIC WATER LEVEL
45 ft. below land surface. Date 11-18-05
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES
Depth at which water was first found 86'

From	To	Estimated Flow Rate	SWL
86	160	20-30 gpm	DNM
180	212	200 gpm	45'
225	230	50-100 gpm	DNM

(12) WELL LOG Ground Elevation _____

Material	From	To	SWL
Soil	0	1	
Clay silty brown	1	23	
Silt blue	23	36	
Clay grey	36	38	
Cemented gravel brown & grey	38	63	
Cemented gravel tight	63	70	
Cemented gravel grey	70	83	
Silt grey	83	86	
Gravel grey	86	89	
Silt grey packed	89	100	
Clay grey	100	105	
Packed silt grey hard	105	115	
Packed silt green	115	127	
Gravel	127	128	
Packed silt grey	128	131	

continued on page 2
Date Started 11-10-05 Completed 11-18-05

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, 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.

WWC Number 1858 Date 11-21-05
Signed [Signature]

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, 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.

WWC Number 668 Date 11-21-05
Signed [Signature]



36728 S. Kropf Rd., Molalla, OR 97038 • Phone: (503) 829-2526 FAX (503) 829-7514

WELL ID# L 78668
 OWNER: Steve Koch
 ADDRESS: 27815 S. Elisha Rd.
 CITY/STATE/ZIP: Canby, OR 97013

WELL ADDRESS: Same
 COUNTY Clackamas TOWNSHIP 4S RANGE 1E
 SECTION 23 SE 1/4 SE 1/4 TAX LOT 1801

(12) WELL LOG INFO. CONT'D FROM PREVIOUS PAGE:

MATERIAL	FROM	TO	SWL
Clay grey	131	135	
Packed silt green	135	140	
Silt w/ packed sand seams	140	143	
Packed silt grey	143	145	
Siltstone grey	145	156	
Siltstone grey & brown	156	167	
Packed sand brown coarse loosely packed	167	170	
Packed sand grey coarse w/ fine gravel	170	180	
Packed sand loosely packed	180	192	
Packed sand grey	192	195	
Siltstone grey w/ packed sand	195	212	
Clay grey	212	215	
Siltstone grey soft	215	219	
Siltstone grey & green w/ packed sand	219	224	
Packed sand green w/ wood	224	225	
Sand grey fine to coarse	225	230	
Packed sand dry	230	233	
Clay grey	233	240	
Silt grey	240	250	
Westerberg Drilling, Inc.			
36728 S. Kropf Rd.			
Molalla, OR 97038			

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 WATER RESOURCES DEPT
 SALEM, OREGON

STATE OF OREGON WATER SUPPLY WELL REPORT

WELL I.D. LABEL# 146621
WESTERBERG DRILLING INC START CARD # 1059267
PO BOX 1228 ORIGINAL LOG #

(as required by ORS 537.545 & 537.765 and OAR 690-205-0210)

(1) LAND OWNER Owner Well I.D. MOLALLA, OR 97038
First Name Don Last Name Walch
Company
Address 12738 S. Eby Rd
City Molalla State OR Zip 97038

(2) TYPE OF WORK [X] New Well [] Deepening [] Conversion
[] Alteration (complete 2a & 10) [] Abandonment (complete 5a)

(2a) PRE-ALTERATION
Dia + From To Gauge Stl Plstc Wld Thrd
Casing: [] [] [] [] [] [] [] []
Material From To Amt sacks/lbs
Seal: [] [] [] [] [] [] [] []

(3) DRILL METHOD
[X] Rotary Air [] Rotary Mud [X] Cable [] Auger [] Cable Mud
[] Reverse Rotary [] Other

(4) PROPOSED USE [] Domestic [X] Irrigation [] Community
[] Industrial/ Commercial [] Livestock [] Dewatering
[] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION Special Standard [] (Attach copy)
Depth of Completed Well 455 ft.

Table with columns: Dia, From, To, Material, SEAL, Amt, sacks/lbs. Rows include Bentonite and Cement entries.

How was seal placed: Method [] A [] B [X] C [] D [] E
[X] Other bent placed dry
Backfill placed from 175 ft. to 461 ft. Material
Filter pack from 175 ft. to 461 ft. Material c.s.s. Size 6/9

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
Proposed Amount P Actual Amount P

(6) CASING/LINER
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd
Shoe [] Inside [X] Outside [] Other Location of shoe(s) 455
Temp casing [X] Yes Dia 14 From + 2 To 56

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type v wire Material s.s.
Perf/ Casing/Screen Screen Liner Dia From To Scm/slot Slot # of Tels/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour
Pump [X] Bailer [] Air [] Flowing Artesian []
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)

Temperature 56 °F Lab analysis [] Yes By
Water quality concerns? [] Yes (describe below) TDS amount 238 ppr
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County CLACKAM Twp 4 S N/S Range 1 E E/W WM
Sec 24 NW 1/4 of the NW 1/4 Tax Lot 1100
Tax Map Number Lot
Lat " or 45.21277 DMS or DD
Long " or -122.64003 DMS or DD
[] Street address of well [] Nearest address

27190 S. Elisha Rd, Canby

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Pre-Alteration
Completed Well 5-2-23 72'3"
Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES
Depth water was first found 158
SWL Date From To Est Flow SWL(psi) + SWL(ft)
11-17-22 158 163 20 dnm
11-18-22 215 229 dnm 66'8"
11-21-22 243 247 dnm dnm
11-23-22 357 364 30-50 dnm
11-23-22 375 377 dnm dnm

(11) WELL LOG
Ground Elevation
Material From To
soil 0 1
clay brown medium 1 20
clay grey with gravel 20 30
cemented gravel brown 30 70
clay grey with gravel 70 85
cemented gravel 85 110
clay grey with gravel 110 120
claystone grey 120 131
packed silt blue grey 131 138
packed silt with packed sand lenses 138 141
packed silt green 141 153
clay grey 153 155
silt grey 155 158
packed sand black 158 163
siltstone grey 163 194
clay lavender sticky 194 197
clay green 197 206
silt brown packed 206 215
sand grey medium coarse 215 229

Date Started 11-15-22 Completed 5-2-23

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, 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.
License Number 1368 Date 5-24-23
Signed [Signature]

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, 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.
License Number 688 Date 5-24-23
Signed [Signature]
Contact Info (optional)



**PUMP TEST MULTIPLE WELL
EXEMPTION REQUEST FORM**

OWNER NAME/BUSINESS NAME Steve Koch		PHONE NO. 503-793-8973	ADDITIONAL CONTACT NO.	
ADDRESS 27815 S. Elisha Rd				
CITY Canby	STATE OR	ZIP 97013	E-MAIL skoch@canby.com	

NOTE: To qualify for an exemption from testing your well(s), you must meet all of the following criteria (OAR 690-217-0020(3)):

1. You own multiple wells producing water from the same aquifer (to be verified by OWRD);
2. One of the wells has been tested and the test has been approved by OWRD; and
3. The wells are within 5 miles of the tested well.

1. List the *tested* well. If the well is listed on any water right, please provide the water right identification numbers as well as the surveyed location. Note that an exemption cannot be granted until the test has been approved.

WELL LOG # (Ex: MARI 99999)	WELL TAG # (Ex: L-999999)	OWNER WELL NAME OR #	TEST DATE	APPLICATION	PERMIT	TRANSFER	CERTIFICATE
CLAC 12500	L-NA	Well 1	March 26, 2019	G- 11796	G-11754	T-NA	94707
CLAC 12469	L-NA	Well 2	March 26, 2019	G- 11796	G-11754	T-NA	94707
CLAC 77990	L-146621	Well 4	April 22, 2023	G-16289	G-18483	T-13426	NA

(CONTINUED)

TWP (Ex: 25S)	RNG (Ex: 31E)	SEC (Ex: 12)	QQ (Ex: SE/SW)	SURVEYED LOCATION (Ex: 100 ft N & 735 ft E fr SE cor, sec 5)	LATITUDE (Ex: 44.94473859)	LONGITUDE (Ex: -123.02787000)
4S	1E	24	SESW	1,250 feet north and 1,950 feet east from the SE corner, Section 24		
4S	1E	24	SWSE	1,210 feet south and 430 feet east from the SW corner, DLC 46		
4S	1E	24	NWNW	1,160 feet south and 160 feet east from the NW corner, Sec 24		

2. List each well and associated water right(s) for which you are requesting a multiple well exemption. This does *not* include the tested well. If a well is listed on more than one water right, be sure to include them all here:

	WELL LOG # (Ex: MARI 99999)	WELL TAG # (Ex: L-999999)	WELL NAME OR #	APPLICATION	PERMIT	TRANSFER
a	CLAC 12500	L-NA	Well 1	G-16289	G-18483	T-13426
b	CLAC 12469	L-NA	Well 2	G-16289	G-18483	T-13426
c	CLAC 61795	L-78668	Well 3	G-16289	G-18483	T-13426

(CONTINUED)

	TWP (Ex: 25S)	RNG (Ex: 31E)	SEC (Ex: 12)	QQ (Ex: SE/SW)	SURVEYED LOCATION (Ex: 100 ft N & 735 ft E fr SE cor, sec 5)	LATITUDE (Ex: 44.94473859)	LONGITUDE (Ex: -123.02787000)
a	4S	1E	24	SESW	1,250 feet north and 1,950 feet east from the SE corner, Section 24		
b	4S	1E	24	SWSE	1,210 feet south and 430 feet east from the SW corner, DLC 46		
c	4S	1E	23	SESE	1,040 feet north and 200 feet west from the SW corner, Section 24		

3. For each well listed in #1 and #2 above, attach all water well reports (i.e. well logs) or, if unavailable, other documentation showing the water-producing zones. If available, please attach a copy of the test and/or approval letter as well as a map showing the locations of all wells listed on this form.

I hereby certify that the tested well and the well(s) requested for exemption(s) are under the ownership listed above and are located within 5 miles of each other.

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WATER
RESOURCES
DEPARTMENT

**PUMP TEST MULTIPLE WELL
EXEMPTION REQUEST FORM**

SIGNATURE: Stephen Koch **DATE:** 10-26-23 **LICENSE #:** _____
PRINTED NAME: Stephen Koch **(CIRCLE ONE):** OWNER, EMPLOYEE, CWRE, RG, PE, WWC, PUMP INSTALLER
PHONE: 503 793 9973 **EMAIL:** SKoch@Canby.com

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