



Oregon
Kate Brown, Governor

Water Resources Department

725 Summer St NE, Suite A

Salem, OR 97301

(503) 986-0900

Fax (503) 986-0904

December 10, 2020

Andrew & Renee Angstrom
935 78th Ave NE
Salem OR 97317

On December 07, 2020 the Water Resources Department received the Claim of Beneficial Use (COBU) for the following file(s):

Application G-18001 Permit G-17537

The COBU included a report and map. The Department hopes to review your submittal within approximately 2 - 4 years. At that time we will review these items and provide a final certificate, proposed certificate, or a request for additional information.

If you are interested in having your COBU reviewed sooner, you may pay to have your file processed immediately, using the Reimbursement Authority program, which is described at:

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

Customer Service phone: (503) 986-0900

Enclosed is your receipt for the \$200.00 COBU recording fee

If you sell the property, please contact the Department, or have the new owners contact the Department about the need to file an assignment.

Cc: file G-18001
Doann Hamilton, CWRE

Checklist for Claims of Beneficial Use Received at CSG Counter

Application #:	WRD Reviewer:
Transfer #:	
Date Received:	
CWRE Name:	
Priority Date (s):	

Fees Required:

- YES NO A fee of \$200 must accompany this form for permits with priority dates of July 9, 1987, or later.
- YES NO A fee of \$200 must accompany this form for any transfers including a water right with a priority date of July 9, 1987, or later.
 Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

Fill in App or Transfer Number

Map Review:

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

Report Review:

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

MONEY SLIP

DATE: _____		RECEIPT #: _____	
RECEIVED FROM: _____		APPLICATION PERMIT TRANSFER	
CASH <input type="checkbox"/>	CHECK # _____	OTHER (IDENTIFY) _____	TOTAL RECD \$ _____
1083 TREASURY 4178 MISC CASH ACCT.			
0407 COPIES _____	OTHER: (IDENTIFY) _____	\$ _____	
0243 Instream Lease _____		0244 Muni Water Mgmt. Plan _____	0245 Cons. Water _____
1083 TREASURY 4270 WRD OPERATING ACCT.			
MISCELLANEOUS			
0407 COPY & TAPE FEES	4611	\$ _____	
0410 RESEARCH FEES		\$ _____	
0409 MISC REVENUE (IDENTIFY)		\$ _____	
TC162 DEPOSIT LIAB. (IDENTIFY)		\$ _____	
0240 EXTENSION OF TIME		\$ _____	
WATER RIGHTS			
0201 SURFACE WATER	EXAM FEE		RECORD FEE
0203 GROUND WATER	\$ _____	0202	\$ _____
0205 TRANSFER	\$ _____	0204	\$ _____
WELL CONSTRUCTION			
0218 WELL DRILL CONSTRUCTOR	EXAM FEE		RECORD FEE
LANDOWNER'S PERMIT	\$ _____	0219	\$ _____
OTHER (IDENTIFY)	COBU	0220	\$ 200.00
0607 TREASURY 0487 HYDROELECTRIC			
		LIC NUMBER	
0233 POWER LICENSE FEE (FWWRD)		\$ _____	
0231 HYDRO LICENSE FEE (FWWRD)		\$ _____	
HYDRO APPLICATION			
\$ _____			
SPECIAL INSTRUCTIONS:			
<input type="checkbox"/> RETURN TO APPLICANT -- LETTER ATTACHED			

Groundwater File Review:

- Pump Test not required (Priority Date prior to December 20, 1988) *If no, include pump test flyer w/acknowledgment letter
- Pump Test required (Priority Date on or after December 20, 1988)
- Pump Test submitted (Pump Test submitted 01/12/2018 Approved By Dennis Orlowski on 09/21/2018)
- Pump Test not submitted

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 \$200 must accompany this form for permits
with priority dates of July 9, 1987, or later.

SECTION 1 GENERAL INFORMATION

1. File Information:

APPLICATION # G-18001	PERMIT # (IF APPLICABLE) G-17537	PERMIT AMENDMENT # (IF APPLICABLE) T-NA
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2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME Andrew and Renee Angstrom		PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS 935 78th Ave NE			
CITY Salem	STATE OR	ZIP 97317	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 Andrew and Renee Angstrom			
ADDRESS 935 78th Ave NE			
CITY Salem	STATE OR	ZIP 97317	

ADDITIONAL PERMIT HOLDER OF RECORD NA			
ADDRESS			
CITY	STATE	ZIP	

4. Date of Site Inspection:

July 23, 2020

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Andy Angstrom	July 23, 2020	Owner / operator

6. County

Marion

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

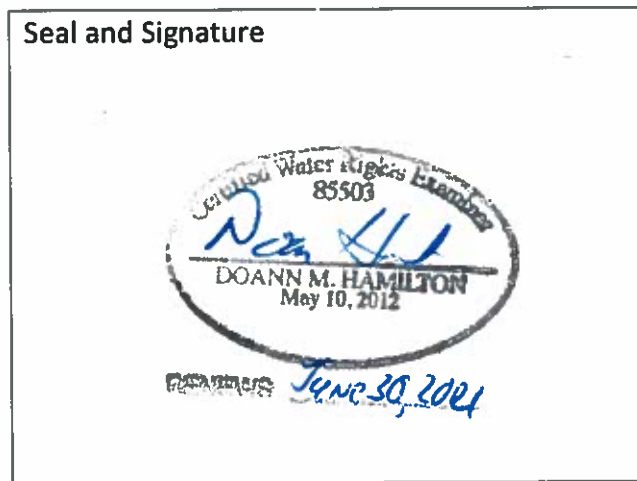
SECTION 2
SIGNATURES

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CWRE Statement, Seal and Signature

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





CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
Doann Hamilton		(503) 632-5013	(503) 349-6946
ADDRESS			
18487 S. Valley Vista Road			
CITY	STATE	ZIP	E-MAIL
Mulino	OR	97042	phgdmh@gmail.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
	Andy Angstrom	President	11-20-20
	Renee Angstrom	Vice President	11-20-20

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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)
Well 1	MARI 66255	L-118263

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	Well in Little Pudding River Basin	Pudding River

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	Irrigation	Hazel nuts	March 1 through October 31	0.70 cfs
Total Quantity of Water Used				0.70 cfs

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

Water is pumped from Well 1 (MARI 66255 / L-118263) using a portable generator to power a 30 Hp submersible pump. The water is conveyed to the west through a 25-foot-long, galvanized steel and un-galvanized steel, 4-inch pipe connected to a sand filter, chemical injection port, and then a meter, before heading below ground and connecting to a 4-inch PVC pipe. The 4-inch PVC buried mainline continues west with a split heading south to a valve where portable hand lines and impact sprinklers

can irrigate grass areas along the eastern portion. The remaining 4-inch PVC mainline continues west, then turns south before heading west again down the middle of the property. From this 4-inch mainline, 3-inch mainlines are connected to run north-south to split up the property into six sections. From each 3-inch mainline, a 1-inch flex hose comes to the surface then tees east-west, one per row. Nelson R-10 spinner stakes are connected to these one inch flex hoses using a 5 mm tubing (approximately one every four trees). A total of 1,936 stakes are used. One section is irrigated at a time for 12 hours, then irrigation is rotated to the next section.

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**

(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.")

1. The place of use was revised to include reference to the DLC and or Government Lot and show the place of use based on field verification:

Original authorized acreage in place of use:

7S	2W	WM	22	SE SE	8.3
7S	2W	WM	23	SW SW	14.5
7S	2W	WM	23	SE SW	3.2
7S	2W	WM	26	NE NW	3.1
7S	2W	WM	26	NW NW	8.7
7S	2W	WM	27	NE NE	<u>1.9</u>
Total:					39.7

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Adjusted acreage in place of use:

7S	2W	WM	22	SE SE	DLC 63	8.3
7S	2W	WM	23	SW SW	DLC 63	14.0
7S	2W	WM	23	SE SW	DLC 63	3.1
7S	2W	WM	26	NE NW	DLC 63	3.2
7S	2W	WM	26	NW NW	DLC 63	9.0
7S	2W	WM	27	NE NE	DLC 63	<u>1.7</u>
Total:					39.3	

2. The location of Well 1 (MARI 66255) is more correctly placed at: 455 feet north and 1,750 feet east from the SW corner, Section 23.

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	0.50 cfs	0.70 cfs	0.89 cfs	Irrigation	39.7	39.3

**SECTION 4
SYSTEM DESCRIPTION**

Are there multiple POAs? NO

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

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

Well 1

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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	SEG	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
7S	2W	WM	22	SE SE	NA	63	Irrigation	8.3	
7S	2W	WM	23	SW SW	NA	63	Irrigation	14.0	
7S	2W	WM	23	SE SW	NA	63	Irrigation	3.1	
7S	2W	WM	26	NE NW	NA	63	Irrigation	3.2	
7S	2W	WM	26	NW NW	NA	63	Irrigation	9.0	
7S	2W	WM	27	NE NE	NA	63	Irrigation	1.7	
Total Acres Irrigated								39.3	

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 accesses a 3/4 inch PVC dedicated measuring tube 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 MARI 66255						

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 MARI 66255

C. Groundwater Source Information (Sump)

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

NO

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

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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:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Franklin	225 ST8	Unknown	Submersible	4 inch	4 inch

3. Motor Information:

MANUFACTURER	HORSEPOWER
Franklin Electric	30 Hp

4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
30 Hp	60 psi	126.92 feet (from permit condition pump test)	-40 feet	0.88 cfs

5. Provide pump calculations:

$$Q \text{ Pump} = \frac{(30 \text{ Hp}) \times (7.04 \text{ ft}^3/\text{sec Hp})}{(86.92 \text{ ft lift} + 152.4 \text{ ft pressure head})} = 0.88 \text{ cfs}$$

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)
12,436,600 gallons	12,437,400 gallons	2 minutes	0.89 cfs

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

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7. Is the distribution system piped?

YES

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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	25 feet	Galvanized and steel	Above
4 inch	2,700 feet	PVC	Buried
3 inch	2,500 feet	PVC	Buried

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
1 inch – one per row	Approx. 95,000 feet	Flex hose	Above
1 inch to connect 3 inch to 1 inch flex above ground	Approx. 3,000 feet	Flex hose	Below
3 inch portable hand line	300 feet	Aluminum	Above
Nelson ¾ sprinkler stake 21 inch long	3,388 feet	PVC	Above and below
Nelson sprinkler stake - comes with 30 inch long 5mm tubing	4,840 feet	Poly tubing	Above and below

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
Nelson R-10 sprinkler head	35 psi	0.5 gpm	1,936	330	0.37 cfs
Rain bird impact sprinkler 7/32 inch	60 psi	10.6 gpm	14	14	0.33 cfs
			Running both at the same time		0.70 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)
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

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H. Additional notes or comments related to the system:

At the time of site visit note:

1. He injects chemicals from a 500 gallon poly before the meter. This means the meter reading includes the chemicals injected. He says the volume could be less than 600 gal/yr injected.
2. The 1-inch, above-ground tubing has several leaks which, once fixed, would result in the use of less water.

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	March 3, 2016		
BEGIN CONSTRUCTION (A)	NA	NA	NA
COMPLETE CONSTRUCTION (B)	March 3, 2021	July 2020	Completed construction of the entire system and applied water to the full allowed rate.
COMPLETE APPLICATION OF WATER (C)	March 3, 2021	July 2020	All the permit conditions were met and water was put to full use. Full beneficial use of water has been made.

* 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)? NO

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

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

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:

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

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

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

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
NA			

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5. Pump Test:

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

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

For additional information regarding pump tests see:

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

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

b. Has the pump test been previously submitted to the Department? **YES**

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

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

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

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

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6. Measurement Conditions:

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

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

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

b. Has a meter been installed? **YES**

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well 1	Mcrometer	16-07898-04	Working	12,436,700 Gallons (July 23, 2020)	June 2016

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? **YES**

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**

WELL ID#	DATE ATTACHED TO WELL
L-118263	April 2016

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e. Other conditions?

YES **OWRD**

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

a1) Condition:

The well shall be continually cased and continuously sealed from land surface into dense basalt at a minimum depth of 180 feet below land surface to preclude connection to nearby streams.

Compliance:

See attached email from Aurora Bouchier, OWRD dated October 31, 2019, stating the well construction conditions outlined in Permit G-17537 have been met.

a2) Condition:

The well shall be open to a single aquifer of the Columbia River Basalt Group and shall meet applicable well – construction standards (OAR 690-200 and OAR 690-210). In addition, the open interval in the well shall be no greater than 100 feet.

Compliance:

See attached email from Aurora Bouchier, OWRD dated October 31, 2019 stating the well construction conditions outlined in Permit G-17537 have been met.

a3) Condition:

The permittee shall coordinate with the driller to ensure that drill cuttings are collected at 10-foot intervals and at changes in lithology in each well. A labeled split of each sampled interval shall be provided to the Department.

Compliance:

See attached email from Justin Iverson, OWRD dated January 23, 2018, stating the driller did not retain the drill cuttings but the Department has determined that submission of cuttings is not required for this particular permit.

a4) Condition:

A dedicated water-level measuring tube shall be installed in the well. The measuring tube shall meet the standards described in OAR 215-0060.

Compliance:

Well 1 (MARI 66255) A dedicated measuring tube was installed in the well shortly after the well was constructed in May 2016.

e5) Condition:

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well.

Compliance:

Well tag L118263 is attached to the well casing.

e6) Condition:

If the riparian area is disturbed in the process of developing a point of diversion, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. For purposes of mitigation, the ODFW Fish and Wildlife Habitat Mitigation Goals and Standards, OAR 635-415, shall be followed.

Compliance:

Well 1 (MARI 66255) was drilled approximately 2,500 feet east from nearest river, the Little Pudding River; therefore, no riparian area was disturbed.

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**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 – MARI 66255	Well log and driller's notes for MARI 66255 – Well 1
BLM Cadastral Map	BLM Cadastral Map T. 7S. R. 2W. showing DLC and Government Lot locations
Email from OWRD dated October 31, 2019	Email form Aurora Bouchier, OWRD stating well construction conditions were met.
Email from OWRD dated January 23, 2018	Email form Justin Iverson, OWRD stating drill cuttings collection condition has been satisfied.

**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.

The COBU map was prepared using tax assessor's maps 07 2W 23 and 23C, 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>

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Map Checklist

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

- Map on polyester film
- Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- Township, Range, Section, Donation Land Claims, and Government Lots
- 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

T.7S. R.2W. Sec. 22, 23, 26 & 27, W.M.

Conifer St NE

Well 1 (MARI 66255) is located 455 feet north and 1,750 feet east from the SW corner, Section 23.

 Area (39.3 Acres) irrigated under Application G-18001, Permit G-17537.

 Tax lot boundary

 Donation Land Claim boundary

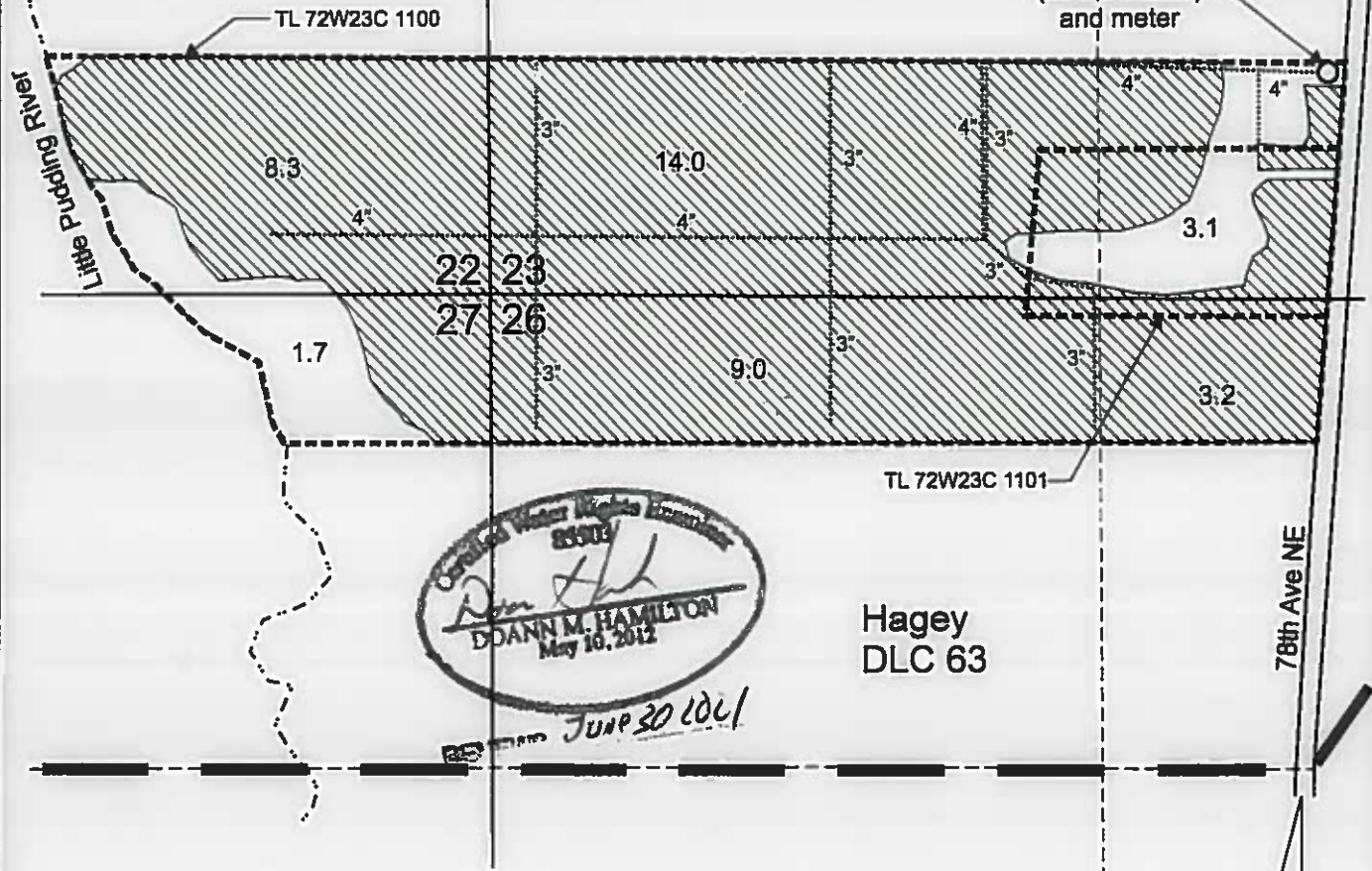
 Water main line

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Well 1
(MARI 66255)
and meter



Scale: 1" = 400'



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-18001, Permit G-17537

Andrew and Renee Angstrom
T.7S. R.2W. Sec. 22, 23, 26 & 27, W.M.

Pacific Hydro-Geology Inc.

11/2020

AngstromG-18001COBUMap.cdr

T.7S. R.2W. Sec. 22, 23, 26 & 27, W.M.

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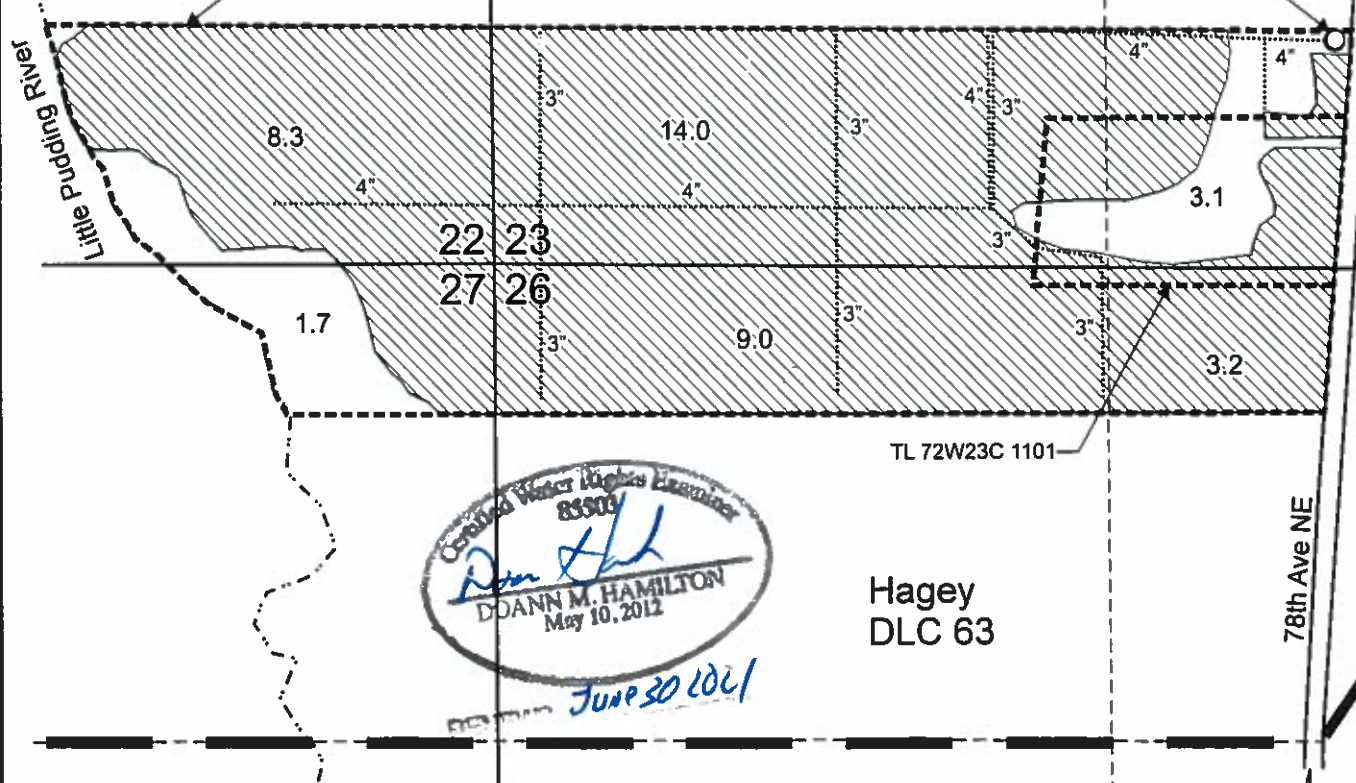
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Well 1
(MARI 66255)
and meter

TL 72W23C 1100



TL 72W23C 1101

Doann M. Hamilton
 Certified Water Rights Examiner
 83508
 DOANN M. HAMILTON
 May 10, 2012
 JUN 30 2021

Hagey
DLC 63

78th Ave NE

Scale: 1" = 400'



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-18001, Permit G-17537

Andrew and Renee Angstrom
T.7S. R.2W. Sec. 22, 23, 26 & 27, W.M.

Pacific Hydro-Geology Inc.

11/2020

AngstromG-18001COBUMap.cdr

R. Stadel & Sons Well & Pump Inc. 4385 Stadel Lane NE Silverton, OR 97381

WELL I.D. LABEL# L 118263 START CARD # 213169 ORIGINAL LOG #

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

(1) LAND OWNER Owner Well I.D. First Name Andrew & Renee Last Name Angstrom Company Address 935 78th Avenue NE City Salem State OR Zip 97317

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

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

(3) DRILL METHOD [X] Rotary Air [] Rotary Mud [] 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 362 ft. BORE HOLE Dia From To Material SEAL From To Amt sacks/lbs

How was seal placed: Method [] A [] B [X] C [] D [] E Backfill placed from ft. to ft. Material Filter pack from ft. to ft. Material Size Explosives used: [] Yes Type Amount

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

(6) CASING/LINER Casing Liner Dia + From To Gauge Stil Plstc Wld Thrd Shoe [] Inside [X] Outside [] Other Location of shoe(s) 282 Temp casing [X] Yes Dia 14 From +1 To 183

(7) PERFORATIONS/SCREENS Perforations Method Swift Factory Screens Type Material Perf/S Casing/ Screen Dia From To Scm/slot Slot # of Tel/ green Liner Dia From To width length slots pipe size

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

Temperature 55 °F Lab analysis [] Yes By Water quality concerns? [] Yes (describe below) TDS amount 450 ppm From To Description Amount Units

(9) LOCATION OF WELL (legal description) County MARION Twp 7 S N/S Range 2 W E/W WM Sec 23 SE 1/4 of the SW 1/4 Tax Lot 1100 Tax Map Number Lot Lat Long DMS or DD DMS or DD [X] Street address of well [] Nearest address

935 78th Avenue NE, Salem, OR 97317

(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft) Existing Well / Pre-Alteration Completed Well 05-04-2016 52.3 Flowing Artesian? [] Dry Hole? []

WATER BEARING ZONES Depth water was first found SWL Date From To Est Flow SWL(psi) + SWL(ft) 04-01-2016 135 152 50 54 Not Measured 230 237 20 05-04-2016 312 375 400 52.3

(11) WELL LOG Ground Elevation Material From To Soil 0 1 Clay Brown Soft 1 3 Clay Stickey Brown 3 10 Clay Brown Medium 10 24 Clay Blue Stickey 24 29 Clay Grey Stickey 29 32 Packed Silt Brown 32 40 Clay Grey Stickey 40 43 Packed Silt Brown 43 47 Clay Brown Stickey 47 57 Gravel with Clay 57 65 Cemented Gravel 65 95 Gravel Large Cemented 95 120 Cemented Gravel Softer 120 135 Sand & Gravel 135 152 Clay Brown & Lavender with some Gravel 152 168 Silstone Brown Medium 168 173 Weathered Rock Soft Brown & Yellow 173 195 Weathered Rock with Grey 195 205 RECEIVED BY OWRD MAY 16 2016 SALEM, OR

Date Started 03-23-2016 Completed 04-22-2016

(unbanded) 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 1358 Date 05-04-2016 Signed Ryan K. Stadel

(banded) 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 05-09-2016 Signed Steven N. Stadel Contact Info (optional) RECEIVED DEC 07 2020

MARI 66255

MARI 66255

WATER SUPPLY WELL REPORT - continuation page

R. Stadel & Sons Well & Pump Inc. 4385 Stadel Lane NE Silverton, OR 97381

WELL I.D. LABEL# L 118263, START CARD# 213169, ORIGINAL LOG #

(2a) PRE-ALTERATION

Table with columns: Dia, +, From, To, Gauge, Sl, Plstc, Wid, Thrd. Includes material and amount sacks/lbs.

(5) BORE HOLE CONSTRUCTION

Table for bore hole construction with columns: BORE HOLE (Dia, From, To), SEAL (From, To), and sacks/lbs. Includes 'Calculated' entries.

FILTER PACK

Table with columns: From, To, Material, Size.

(6) CASING/LINER

Table with columns: Casing Liner, Dia, +, From, To, Gauge, Sl, Plstc, Wid, Thrd. Includes diagrams of casing and liner profiles.

(7) PERFORATIONS/SCREENS

Table with columns: Perf/S creen, Casing/ Screen Liner, Dia, From, To, Scm/slot width, Slot length, # of slots, Tele/ pipe size.

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

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr).

Water Quality Concerns

Table with columns: From, To, Description, Amount, Units.

(10) STATIC WATER LEVEL

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), + SWL(ft).

(11) WELL LOG

Table with columns: Material, From, To. Lists geological layers like Basalt Grey Medium Hard, Basalt Dark Soften, etc.

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MAY 16 2016

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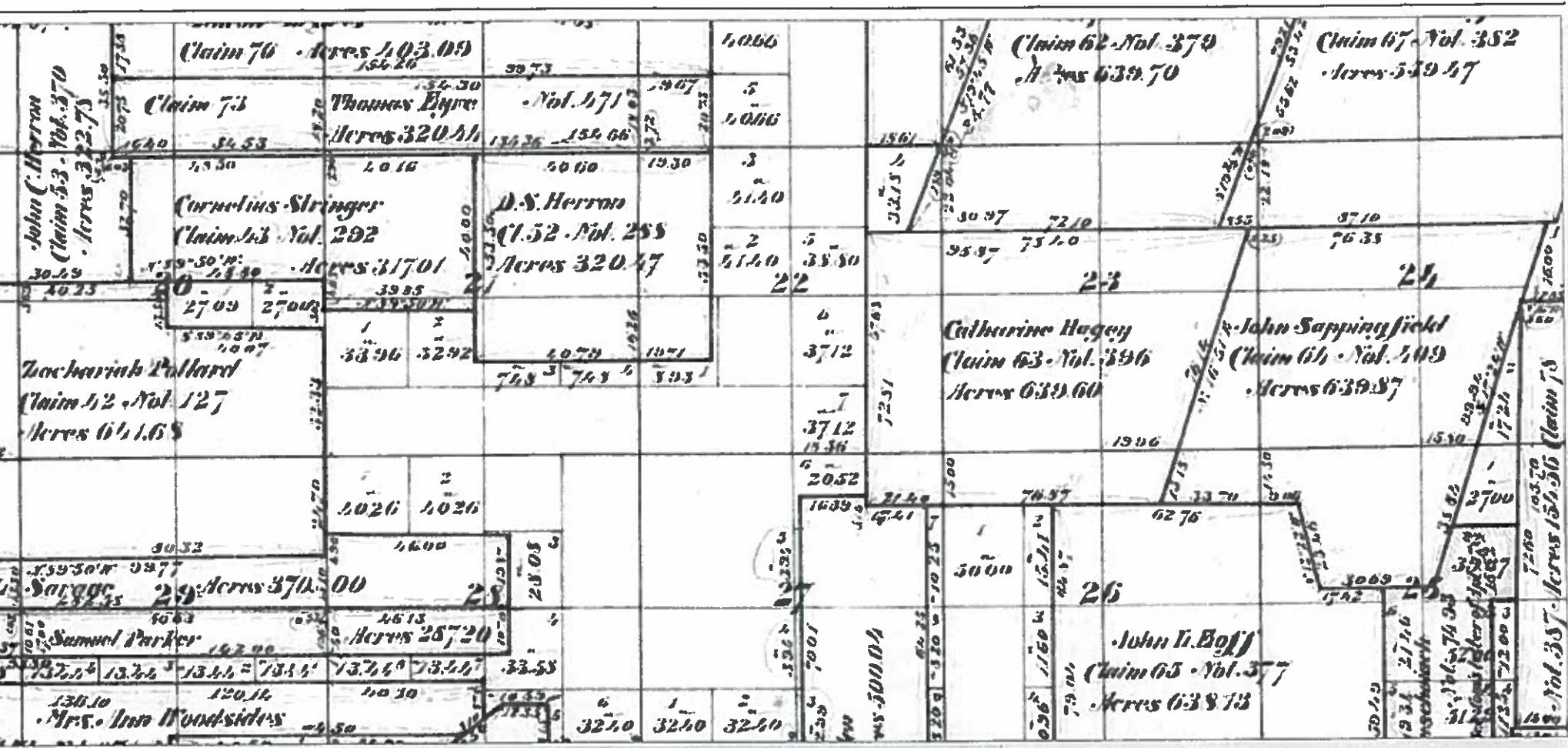
SALEM, OR

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Comments/Remarks

Well was drilled to 379'. 10" bit & stabilizer twisted off while cleaning out hole. Diligent effort was made to fish it out to no avail. After consulting with owner, decision was made to leave it in well. Will have no effect or performance of well. 8" liner was installed to top of tools at 362'.



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Doann Hamilton <phgdmh@gmail.com>

App G-18001, Permit G-17537 well compliance

BOUCHIER Aurora C * WRD <Aurora.C.Bouchier@oregon.gov>
To: "phgdmh@gmail.com" <phgdmh@gmail.com>
Cc: IVERSON Justin T * WRD <Justin.T.Iverson@oregon.gov>

Thu, Oct 31, 2019 at 10:33 AM

Hello Doann,

The well is continuously cased and continuously sealed from land surface to a depth of 282 feet below land surface into a layer described as 'Basalt Grey Fractured with Brown'. Although the permit does specify that the casing/seal be 'into hard dense basalt' it appears that in this case the casing/seal depth is appropriate. Furthermore, the permit specifies that the well be open to a single aquifer with an open interval no greater than 100 feet. These conditions appear to have been satisfied. To summarize, the well (MARI 66255) complies with the drilling conditions outlined in permit G-17537.

A copy of this email has been printed out and added to the application folder.

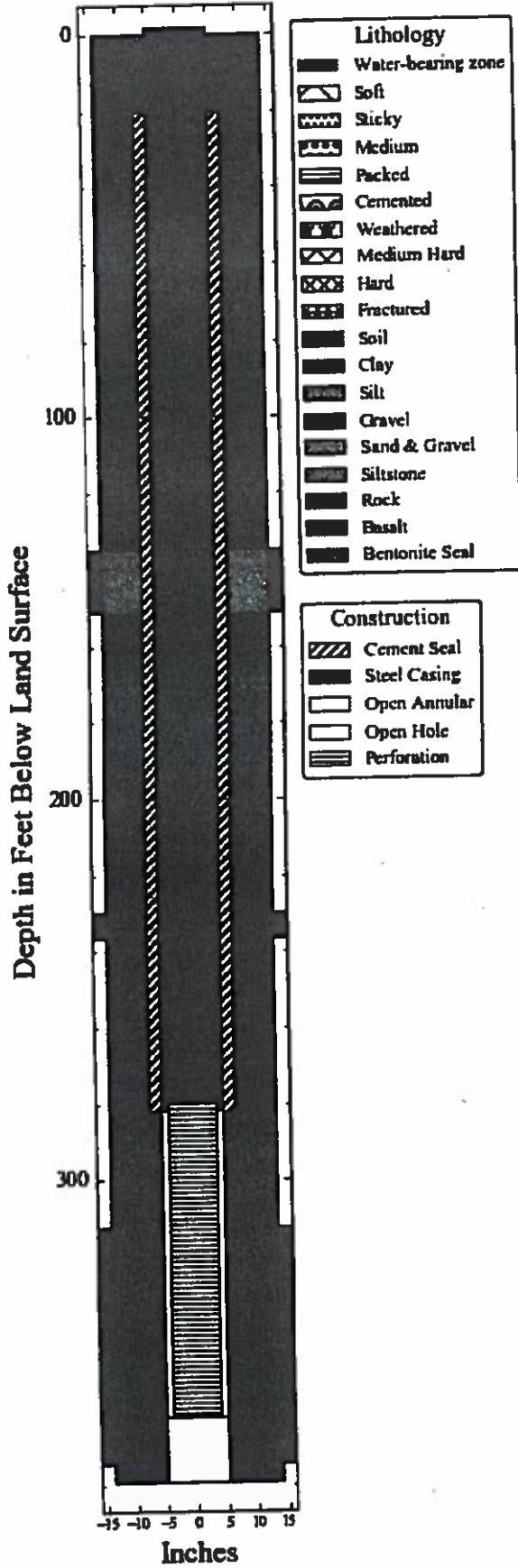
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MARI 66255 LITHOLOGY



Cheers.

Aurora Bouchier, R.G.

HYDROGEOLOGIST

725 Summer Street NE, Suite A Salem, OR 97301 | Phone 503-986-0841

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**OREGON
WATER
RESOURCES
DEPARTMENT**

"All the water that will ever be is, right now." –National Geographic, October 1993

"When the well is dry, we know the worth of water." –Benjamin Franklin, Poor Richard's Almanack, 1746

From: IVERSON Justin T * WRD <Justin.T.Iverson@oregon.gov>
Sent: Thursday, October 31, 2019 7:51 AM
To: BOUCHIER Aurora C * WRD <Aurora.C.Bouchier@oregon.gov>
Subject: FW: App G-18001, Permit G-17537 well compliance

Hi Aurora,

This was one of your reviews from 2015. Could you please respond to Doann and put a copy of your response in the water right file.

Thanks,

Justin Iverson, RG

GROUNDWATER SECTION MANAGER

Desk: 503-986-0933 | Cell: 503-302-9728

[Quoted text hidden]



Doann Hamilton <phgdmh@gmail.com>

Application G-18001, Permit G-17537

Tue, Jan 23, 2018 at 4:25 PM

ORLOWSKI Dennis R * WRD <Dennis.R.Orlowski@oregon.gov>

To: Doann Hamilton <phgdmh@gmail.com>

Cc: IVERSON Justin T * WRD <Justin.T.Iverson@oregon.gov>, CLARK Gerald E * WRD <Gerald.E.Clark@oregon.gov>

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Hello Doann,

Given that the driller reportedly did not retain the drill cuttings, the Department has determined that submission of cuttings is not required for this particular permit.

Please include a copy of this e-mail correspondence with the COBU package when it is submitted. At that time, OWRD will use this statement to account for the permit condition, and will not consider the lack of cuttings submission as a failure to comply with the condition.

Regards,

Dennis

Dennis Orłowski | Hydrogeologist – Groundwater Section

Oregon Water Resources Department

725 Summer St. NE, Suite A

Salem, Oregon 97301

Phone: 503.986.0897 | E-Mail: dennis.r.orlowski@oregon.gov

From: IVERSON Justin T * WRD

Sent: Monday, January 22, 2018 10:40 AM

To: Doann Hamilton

Cc: ORLOWSKI Dennis R * WRD

[Quoted text hidden]