

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



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

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

A separate form shall be completed for each permit.

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

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

Go to "Resources for Water Right Examiners (CWRE)" Page

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

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

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

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

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

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

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

SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION # S-88522	PERMIT # S-55177	PERMIT AMENDMENT # T-
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2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME Michael Lorenzen		PHONE NO. (503) 991-0000	ADDITIONAL CONTACT NO.
ADDRESS 18945 SE Neck Rd.			
CITY Dayton	STATE OR	ZIP 97114	E-MAIL lorenzen11@hotmail.com

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

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

PERMIT HOLDER OF RECORD Michael Lorenzen			
ADDRESS 18945 SE Neck Rd.			
CITY Dayton	STATE OR	ZIP 97114	

ADDITIONAL PERMIT HOLDER OF RECORD			
ADDRESS			
CITY	STATE	ZIP	

4. Date of Site Inspection:

11-2-2022

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Michael Lorenzen	11-2-2022	Owner

6. County:

Yamhill

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

OWNER OF RECORD			
ADDRESS			
CITY	STATE	ZIP	

Add additional tables for owners of record as needed

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**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 William E. McGill		PHONE NO. (503) 510-3026	ADDITIONAL CONTACT NO. (503) 931-0210
ADDRESS 15333 Pletzer Rd. SE			
CITY Turner	STATE OR	ZIP 97392	E-MAIL willmcgill.surveying@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
	Michael S Lorenzen	Owner	11-02-2022

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SECTION 3

CLAIM DESCRIPTION

1. Point of diversion name or number:

POINT OF DIVERSION (POD) NAME OR NUMBER (CORRESPOND TO MAP)
POD

2. Point of diversion source and tributary:

POD NAME OR NUMBER	SOURCE	TRIBUTARY
POD	Willamette Basin Project Reservoirs constructed under permits R-1625 and R-5363 (BOR 189E101970)	Willamette River

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

POD 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)
POD	Irrigation	Hazelnuts, Blueberries, Peaches, Blackberries, Raspberries, Pumpkins	Mar. 1 – Oct. 31	37 AF
Total Quantity of Water Used				37 AF

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

Water is pumped from the river by a 75 HP centrifugal pump, delivered to the field through 8"-6" buried PVC mainline and some 3" submains. Water is applied to hazelnuts and pumpkins by a big gun, to peaches by handlines, and to berries by solid set sprinklers.

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

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5. Variations:

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

YES **NO** **OWRD**

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

The permit authorized 15 acres of irrigation. The applicant developed 14.8 acres.

6. Claim Summary:

POD NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
POD	N/A	1.88 cfs	*	Irrigation	15	14.8

***System not running at time of onsite inspection.**

SECTION 4 SYSTEM DESCRIPTION

Are there multiple PODs?

YES NO

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

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

POD

A. Place of Use

1. Is the right for municipal use?

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
4S	3W	WM	10	SESW		76	Irrigation	5.0	
4S	3W	WM	10	SWSE		76	Irrigation	6.0	
4S	3W	WM	15	NWNE		76	Irrigation	2.9	
4S	3W	WM	15	NENW		76	Irrigation	0.9	
Total Acres Irrigated								14.8	

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. 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 diversion to the place of use.

1. Is a pump used?

YES NO

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

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Cornell	4YB-75-2	88594 9.00	Centrifugal	6" O.D.	4" O.D.

3. Motor Information:

MANUFACTURER	HORSEPOWER
Marathon Electric	75

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4. Theoretical Pump Capacity:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
75	70	6'	80'	1.88

5. Provide pump calculations:

$Q = (75 * 6.61) / (177.8 + 6 + 80) = 1.88 \text{ cfs}$

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)
System not running at time of onsite inspection.			

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

7. Is the distribution system piped?

YES NO

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

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
8"	4400'	PVC	Buried
6"	1200'	PVC	Buried

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
4"x40'	320'	Aluminum	Above Ground

10. Sprinkler Information:

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
Nelson rotator K5, 15°	70	3.5	120	120	0.935 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)
N/A					

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12. Drip Tape Information:

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

13. Pivot Hose Reel Traveler Information:

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT GUN OUTPUT (GPM)	TOTAL PIVOT GUN OUTPUT (CFS)
EHCO traveler with Nelson big gun	190'	110	304	0.68

C. Storage

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

YES NO

D. Gravity Flow Pipe

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

1. Does the system involve a gravity flow pipe?

YES NO

E. Gravity Flow Canal or Ditch

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

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

YES NO

F. Additional notes or comments related to the system:

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SECTION 5 CONDITIONS

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

1. Time Limits:

Permits and any 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 of time:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	4-8-2019		
BEGIN CONSTRUCTION (A)	N/A	May 2020	Began installing buried PVC mainline.
COMPLETE CONSTRUCTION (B)	N/A	Aug. 2021	Complete installation of solid set sprinklers.
COMPLETE APPLICATION OF WATER (C)	4-8-2024	June 2020	Completed irrigation of all acres with big gun.

* 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 NO

3. Measurement Conditions:

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

YES NO

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

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

b. Has a meter been installed?

YES NO

c. Meter Information

POD NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
POD	McCrometer	20-04104-06	Working	101000	June 2020

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4. Recording and reporting conditions:

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

5. Fish Screening:

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? YES NO

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

Reminder: If fish screening devices were required, the COBU map must indicate their location in relation to the point of diversion.

b. Has the fish screening been installed? YES NO

c. When was the fish screening installed?

DATE	BY WHOM
June 2020	Purchased from Ernst Irrigation, installed by Michael Lorenzen.

Reminder: If the permit was issued on or after February 1, 2011, the fish screen is required to be approved by the Oregon Department of Fish and Wildlife regardless of the rate of diversion.

d. If the diversion involves a pump *and* the total diversion rate of all rights at the point of diversion is less than 225 gpm (0.5 cfs) and the permit was issued prior to February 1, 2011:

- Has the self-certification form previously been submitted to the Department? NA YES NO

If not, go to <https://www.oregon.gov/OWRD/Forms/Pages/default.aspx> complete and attach a copy of the 'ODFW Small Pump Screen Self Certification' form to this claim, and send a copy of it to the Oregon Department of Fish and Wildlife (ODFW).

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. The ODFW self certification form needs to have been previously submitted or be attached to this form.

e. If the diversion does not involve a pump *or* the total diversion rate of all rights at the point of diversion is 225 gpm (0.5 cfs) or greater:

- Has the ODFW approval been previously submitted? NA YES NO

If not, contact and work with ODFW to ensure compliance. To demonstrate compliance, provide signed documentation from ODFW. A form is available at:

<https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. In order to receive a favorable approval, the ODFW/WRD "Fish Screen Inspection" form needs to have been previously submitted or be attached to this form.

6. By-pass Devices:

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? YES NO

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

- a. Was the water user required to restore the riparian area if it was disturbed? YES NO
- b. Was a fishway required? YES NO
- c. Was submittal of a water management and conservation plan required? YES NO
- d. Other conditions? YES NO

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

a. This application/permit was on an existing pump site (POD) so no riparian area was disturbed.

**SECTION 6
ATTACHMENTS**

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

ATTACHMENT NAME	DESCRIPTION
ODFW Letter	Approval of fish screen.
Pictures (x16)	Taken during 11-2-2022 onsite inspection.

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SECTION 7

CLAIM OF BENEFICIAL USE MAP

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

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

**Survey method used was aerial photo provided by Maxar Technologies.
Source Date: 4/29/2021**

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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Oregon

Kate Brown., Governor

Department of Fish and Wildlife
The Dalles Screen Shop
3561 Klindt Drive
The Dalles, OR 97058
(541) 296-8026
FAX (541) 296-7889
odfw.com

November 09, 2022



Attn. Michael Lorenzen
18945 SE Neck Rd
Dayton, OR 97114

RE: Permit S-55177

To whom it may concern,

Oregon Department of Fish and Wildlife has reviewed the fish screen associated with your point of diversion on the Willamette River, N 45.223986 W 123.026219 and is associated with water right S-55177. This site was inspected virtually with photos submitted by the landowner.

The 75 Hp Pump is designed to accommodate a maximum of 844 gpm at 75 psi and will not exceed the fish screens maximum intake of 950 gpm. The fish screen that is in use at this point of diversion is a Clemons Clearwater Self-Cleaning Suction Screen. This model of self-cleaning screen, when installed and maintained properly is capable of screening up to 2.11 cfs or 950 gpm, while protecting all age classes of native fish present from entrapment and impingement. ODFW concludes that this screen will meet current state and federal fish screening criteria set forth by National Marine Fisheries Service for a maximum withdraw rate of 2.11 cfs (950 gpm) Under permit number S-55177. A by-pass device is not required at this point of diversion as this is an end of pipe screen.

This approval is contingent on the following: the screen is installed prior to any withdraw of water, the screen is installed so that the effective screen area is submerged during operation, and the screen is regularly inspected and maintained to ensure it remains in working order, including removing debris as necessary, and the screen is annually inspected when it is not in use.

If there are any questions regarding the approval of the screen for permit S-55177, please call me at 541-967-2162.

Sincerely,

Toby Schuyler

11/9/2022

Fish Screens and Passage Coordinator

CC: Will McGill Surveying, LLC

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Lorenzen 6841
on-site
11/2/22

Sprinkler on
Bernies (Nelson
rotator, KS,
150)



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Lorenzen COBU onsite 11/2/22

Berry crop with solid set sprinklers



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OWB/D

Lorenzen CoBU onsite 11/2/22

Flow meter cap and s/n



McCROMETER
Item #: **M0306** OD: **6.625**
Serial#: **20-04104** ID: **6.08**
Unit Ttl/Rte: **GAL / GPM** Ratio: **675**
Mount: **Standard** Bearing: **B0110-82-PH**
Orien: **HORIZONTAL** Reg: **R0100-10-P**
COMPONENT
NSF / ANSI 61
&
NSF / ANSI 372

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QWRD

Lorenzen COBU onsite 11/2/22
Flow meter tag

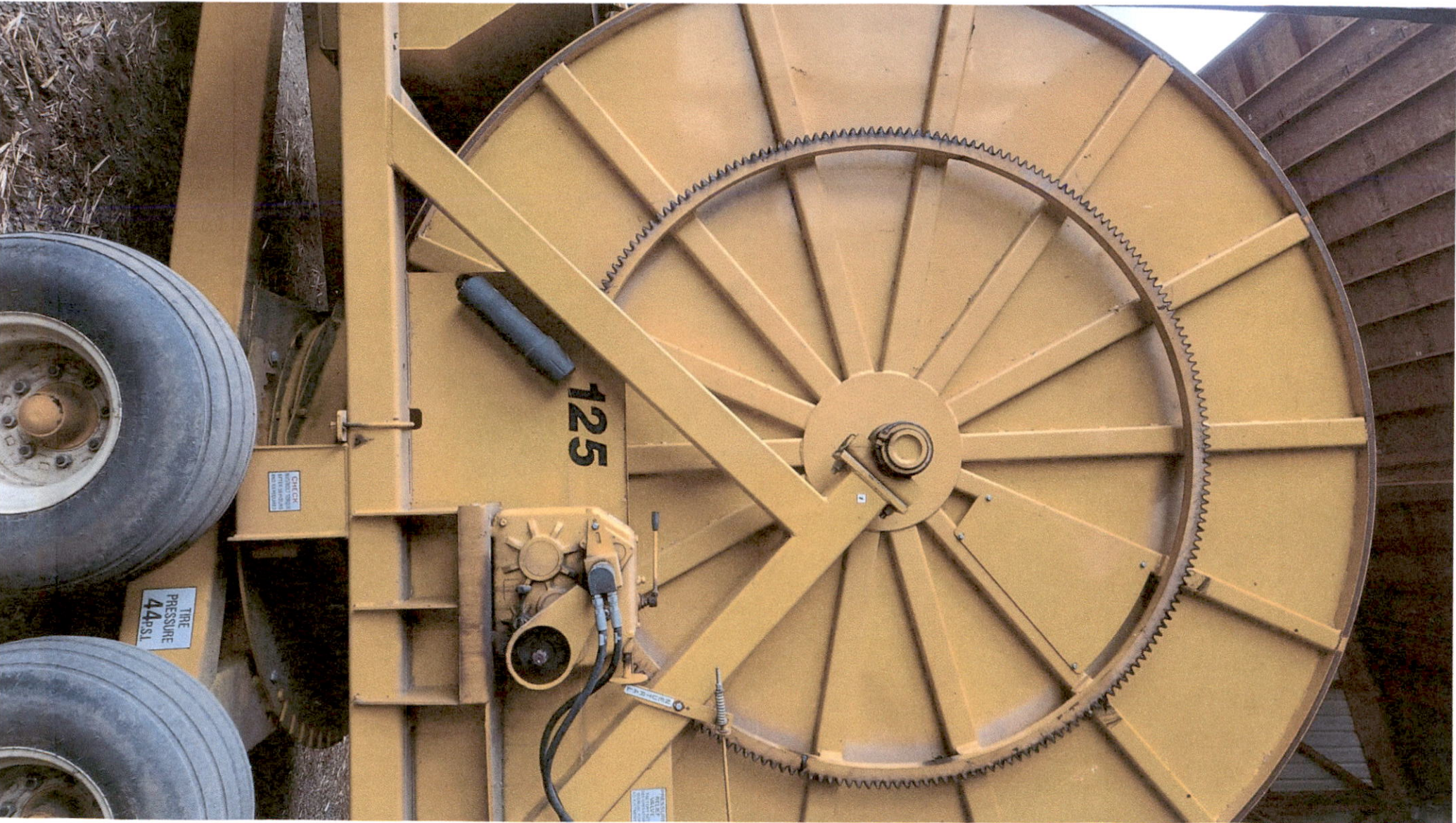


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Lorenzen CoBU onsite 11/2/22
Micrometer Flow meter reading



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Lorenzen
CO BU
DASITE
11/2/22
Hose reel
Traveler



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Lorenzo Cobu onsite 11/12/22

1" Nelson nozzle

⑦



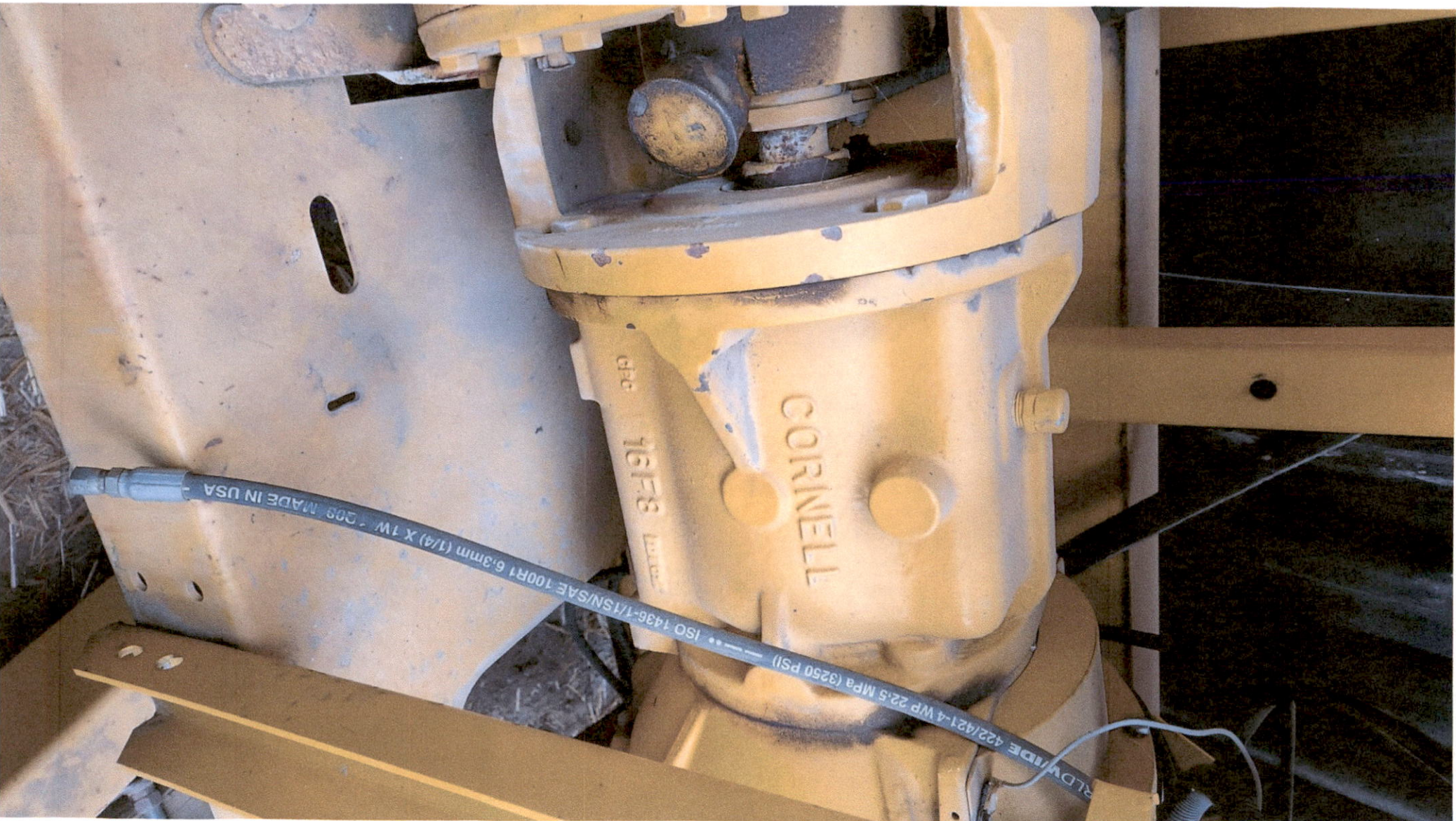
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Lorenzen COBU onsite 11/2/22

Nelson big gun



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Lorenzen Cobb
on site
11/18/22
Cornell pump
on reel



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Lorenzen COBU onsite 11/2/22
Suction Line with fish screen



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Lorenzen COBU onsite 11/2/22

Fish screen



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Lorenzen Cobu onsite 11/2/22

Rainbird impact sprinklers on handlines



Handlines
4" x 40'

LORENZO COBU
onsite
11/2/22

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Lorenzo Cobu onsite 11/2/22
Centrifugal pump

MARATHON
ELECTRIC

WAUSAU, WISCONSIN 54401 U.S.A.

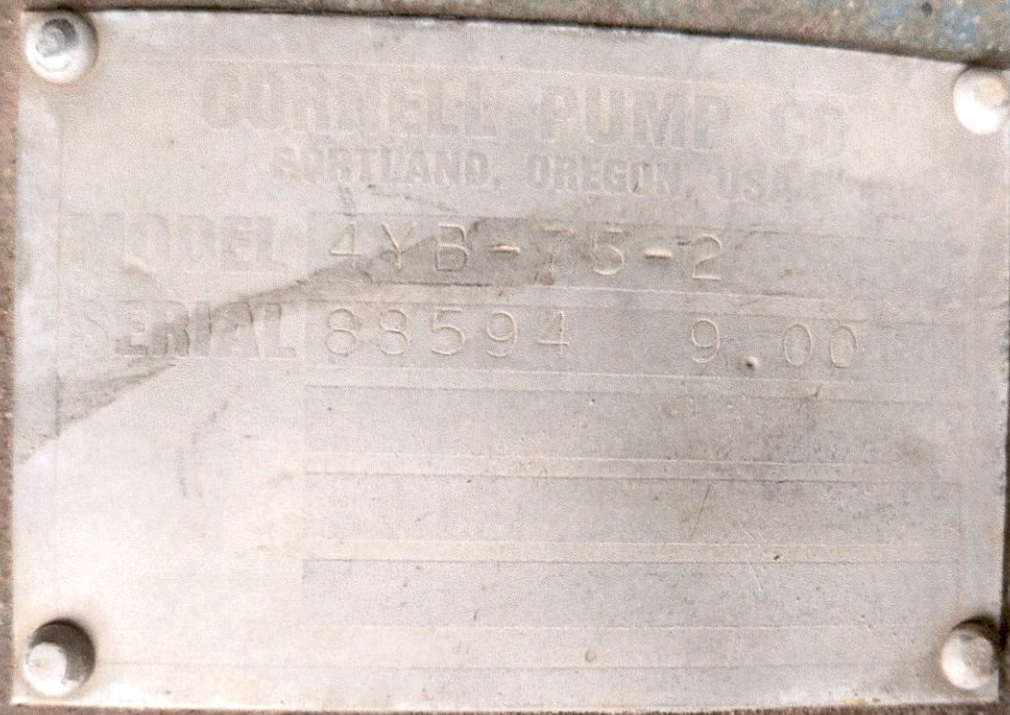
Series-E
HIGH EFFICIENCY
E.A56680-55

MODEL	2G 364TTDS4010AP W					FRAME	
TYPE	TDS	DE	B ⁰	PH 3	CODE F	CI	ENG
DUTY	CONT	MAX AMP	40	SHAFT END BRG	513	OPP END BRG	
42517890-3/13							
P/N A15048F-55							
VOL	230/460			AMP	178/89		
RPM	3560	HZ	60	NEMA NOM EFF	97.6	NOM EFF	86.0
HP	75	SE	1.8	CORR AMP	158/79		

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Lorenzo Cobu onsite 11/2/22
Motor Tag

63



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Lorenzen cobal onsite 11/2/22

Pump Tag