

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



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

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**A fee of \$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>

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

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

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

A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.

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

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see
<https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx>

SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION # G-15198	PERMIT # (IF APPLICABLE) G-17360	PERMIT AMENDMENT # (IF APPLICABLE) T-11689
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2. Property Owner (current owner information):

APPLICANT/BUSINESS NAME John and Janna Vanden Brink		PHONE NO. 1 541 422 7035 or 1 541 561 5624	ADDITIONAL CONTACT NO.
ADDRESS P.O. Box 165			
CITY Ione	STATE OR	ZIP 97843	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 John and Janna Vanden Brink Trust			
ADDRESS P.O. Box 165			
CITY Ione	STATE OR	ZIP 97843	RECEIVED FEB 14 2022

ADDITIONAL PERMIT HOLDER OF RECORD Northwest Farm Credit Services, FLCA			OWRD
ADDRESS 12 SW NYE Ave			
CITY Pendleton	STATE OR	ZIP 97801	

ADDITIONAL PERMIT HOLDER OF RECORD Northwest Farm Credit Services, PCA			
ADDRESS P.O. Box 878			
CITY Pendleton	STATE OR	ZIP 97801	

4. Date of Site Inspection:

August 10, 2021, Sept 14, 2021, & Jan 19 2022
--

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Bill Porfily	August 10, 2021, and Sept 14, 2021	Representative of John Vanden Brink
John Vanden Brink	Sept 14, 2021	Owner

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6. County:

Morrow

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)):

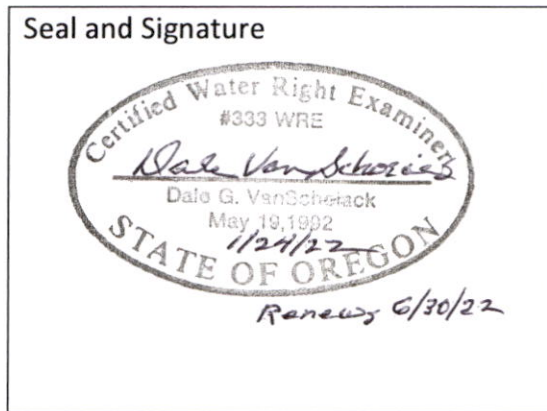
OWNER OF RECORD Not Applicable		
ADDRESS		
CITY	STATE	ZIP

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.

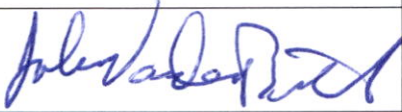
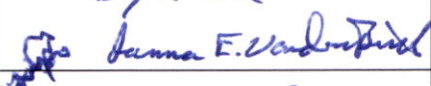
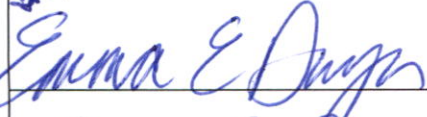
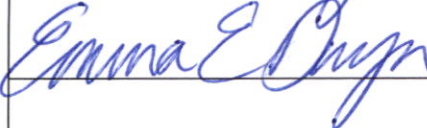


CWRE NAME Dale VanSchoiack		PHONE No. 509 627 8717	ADDITIONAL CONTACT No.	
ADDRESS 2141 South Lyle				
CITY Kennewick	STATE WA	ZIP 99337	E-MAIL dalevconsulting@gmail.com	

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
	John Vanden Brink	Owner	
By John 	Janna Vanden Brink	Owner	
		NW Farm Credit Services, FLCA	
		NW Farm Credit Services, PCA	

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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 #2	MORR 36	NA

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 #2	Rhea Creek (Willow Creek Basin)	Columbia 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 #2	Irrig	Beans and wheat	Irrigation Season	1.70 cfs (well pump) 1.51 cfs (circle flow)
Total Quantity of Water Used				1.51 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 was pumped from the well with a 100 hp turbine pump a short distance to a small regulating reservoir. From the reservoir, water was pumped to the irrigation circle irrigating the land authorized under this permit. There were two short coupled canned turbine booster pumps, 1- 150 hp and 1-200 hp at the reservoir.

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.

(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.")

GENERAL FOREWORD:

The 119.2 acres authorized for irrigation under this permit, Superseding Permit G-17360, was first authorized to be irrigated some 50 years ago under Permit G-4592 which issued on Oct 1, 1970. Permit G-4592 resulted in Certificate 42254 which issued on May 23, 1975. On April 17, 2001, transfer T-8573 transferred the Use, the Place of Use, and the POA for the water right associated with the 119.2 acres of irrigation under Certificate 42254 to Agricultural Water Use Associated with a Dairy. Just a couple months later, on June 7, 2001, Permit G-13962 was issued authorizing irrigation of 119.2 acres which was the same POU that previously had water rights under Certificate 42254. Permit G-13962 had a completion date of October 1, 2005. Permit G-13962 underwent an extension of time which extended the completion date to October 1, 2017, and a Permit Amendment (T-11689) which added three additional POAs. Superseding Permit G-17360, (the permit this Claim of Beneficial Use is for) was issued to describe the extension of time and permit amendment.

As noted above, prior to the issuance of Permit G-13962 which was superseded by Permit G-17360 the 119.2 acres were being irrigated. At the time Permit G-13962 was issued the irrigation system and pumping equipment existed, therefore, no construction was necessary. The farmland continued to be irrigated after the issuance of Permit G-13962.

The period for beneficial use under Permit G-13962 was June 7, 2001, through October 1, 2005. An extension to the completion date and an amendment to the permit resulted in the Superseding Permit G-17360. The period for beneficial use for Permit G-17360 is June 7, 2001, through October 1, 2017.

Available Google images of the ground during the 2001, and 2005 irrigation seasons provide evidence that the 119.2 acres were irrigated during these years. This claim is prepared based on the beneficial use occurring by September 1, 2005, which is prior to the October 1, 2005, completion date specified in the permit.

Site visits were made to the project during August and September of this year (2021). At that time all the irrigation infrastructure and irrigation equipment were in place except for the well pump and flow meter. Apparently, sometime during the 2010-2011 period the well pump and flow meter were removed. John Vanden Brink acquired the land in 2011 and had the permit assigned to him. The well pump and flow meter had been removed prior to John Vanden Brink acquiring the property. The original permit holder and landowner was Marvin Padberg.

This claim is based on beneficial use being made by September 1, 2005, some 16 years prior to now. In preparation of the claim the original permit holder, Marvin Padberg, was contacted and interviewed to obtain information regarding irrigation under the permit. The owner's representative, Bill Porfily, interviewed Marvin Padberg to acquire information associated with the irrigation equipment and irrigation of the land during the 2001 – 2005 irrigation seasons. Marvin Padberg was not very cooperative, and the discussion was unproductive. Due to the time lag and change in ownership since the 2001-2005 period historical information was used in preparing this claim of beneficial use (COBU).

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YES

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Site visits were made to the project during August and September of this year (2021). At that time all the irrigation infrastructure and irrigation equipment were in place except for the well pump and flow meter. Apparently, sometime during the 2010-2011 period the well pump and flow meter were removed. John Vanden Brink acquired the land in 2011 and had the permit assigned to him. The well pump and flow meter had been removed prior to John Vanden Brink acquiring the property. The original permit holder and landowner was Marvin Padberg.

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The historical information consists of existing OWRD Final Proof maps and notes associated with other water rights for the subject and adjacent property. These records were useful in providing information relative to the source (well), pumping equipment and associated irrigation equipment for this report.

VARIATIONS:

The permit authorizes four points of appropriation, the original existing well and three additional proposed wells. The water user only developed one well. It is referred to as Well # 2. The location of Well # 2 (1180' S and 620' E from the NE corner of Section 35) was found to be approximately 30' North and 410' West of the stated well location on Superseding Permit G 17360 (1050' S and 210' E from the NE corner of Section 35).

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SUPPORTING INFORMATION:

OWRD has guidance regarding the department allowing permit holders to claim wells that are not in the precise location described in the permit. The well should not be significantly closer to a surface water source or other well. In this case, the source well is 411'± away from the location of the well stated on the permit. Rhea Creek is the closest natural surface water to the well sites. The well location noted on the permit is 150'± from Rhea Creek. The location of the well claimed as the source under this claim is 330'± from Rhea Creek. The closest other well is 1330'± from the well claimed in this claim. It is 1660'± from the location of the well stated on the permit. The closest other well and the land it serves is owned by the water user making this claim. These items support that the claimed source well is consistent with the guidance.

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Research and review of OWRD documents suggest the location of the authorized well stated in original Permit 13962 (1050' S and 210' E from the NE corner of Section 35) was not being used as an irrigation well at the time the permit application was made. The designation of this well as Authorized Well #2 on Superseding Permit 17360 adds to the confusion when discussing the well designation with parties familiar with the well and reviewing OWRD documents on wells in the area. There are several items that support this.

During a site visit in August of 2021, two wells were identified in the general area of the stated permit well location. As previously stated, the wells are within 411' of each other. Neither of the wells had an irrigation pump installed at the time of the site visit. It did not appear either of the wells are being used for irrigation at this time.

The location of the easterly most well identified during the site visit is consistent with the location of the well referred to as Authorized Well #2 noted for this permit, Permit G-17360 priority August 16, 2000. That location is 1050' S & 210' W from the NE corner of Section 35. This well location is the well location shown on the Final Proof Survey conducted in May of 1974 for Permit G-4369 and Permit G-4592 which resulted in Certificate 42254 priority September 19, 1969. It is believed this well was constructed in February of 1969 (Well Log MORR 1735), reconditioned in December of 1975 (Well Log MORR 38), and deepened in March of 1977 (Well Log MORR 37). This well site is also noted on the application for Permit G-8701, priority April 19, 1978. On this application this well is referred to as Well #1. While meeting with another water user on another project we were told they lived in the house close to the wells and the easterly well was used as their domestic house well. At that same meeting we were able to talk to a person that worked with for Columbia Basin Electric Coop. (the power company) during the

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1991 -2007. He was familiar with the electric service for the well told us this well was not used for irrigation during the period he work for the power company (1991-2007). His understanding was it was used for domestic water for a nearby house. There was a second well site (Well #2) noted on the application for Permit G-8701. Its location is the same as the westerly most well site discussed in the following paragraph.

The location of the westerly most well identified during the site visit is consistent with the location of the well claimed as being the source well for this COBU for Permit G-17360. The location is 1180' S and 620' W from the NE corner of Section 35. It is noted as Well #2, the second well site noted on the application for Permit G-8701 which resulted in Certificate 66074 priority April 19, 1978. It is believed this well was constructed in September of 1977 (Well Log MORR 36).

The above narrative provides information that supports the belief that the location of the source well for Superseding Permit G-17360 (Original Permit G-13962) was not being used for irrigation at the time of the application (Application G-15198). The application is noted as having been received by the department on August 2, 2000. Prior to that, on April 19, 1978, an application resulting in Permit G-8701 was received by the department. Permit G-8701 authorized two wells which happen to be the same two wells observed during the site visit for this COBU. Both wells had been constructed at the time Permit G-8701 was issued. During the final proof for Permit G-8701 which led to Certificate 66074 only one of the wells was claimed to have been used. The location of that well is the same as the westerly most well identified during the site visit for this COBU. A 'Description of Works' by OWRD (Vernon Church) associated with the final proof for Permit G-8701 includes a statement under 'Remarks by Examiner:' that indicates Well 1 (which is the easterly most well) is plugged at 300' and at that time there was no pump or motor. The statement suggest after the well was drilled down to 1500' the water level went down to 800' so they plugged it off at 300'. The 'Descriptions of Works' is dated 3-16-82. A copy of the 'Description of Works' is attached to this report. The resulting certificate associated with Permit G-8701, Certificate 66074, issued on June 21, 1991. No evidence was found that any corrective measures were made to bring the well back in production as an irrigation well.

The Columbia Basin Electric Coop. supplies electrical power for the area. They were contacted in hopes of getting power records for the electrical meters for the wells. The thought was the electrical use would provide and indication of the use of the well(s) for irrigation. The power company was only able to provide billing records back to 2005, therefore, no additional information was available through reviewing power records.

There is another point believed to be worth noting. It was mentioned in the General Foreword: of this narrative that the land involved in this claim was at one time covered by water right Certificate **42254**. Transfer, T-8573 was initiated to change the use, place of use, and POA of the water right authorized by Certificate **42254** which in turn lead to Superseding Permit G-17360. While conducting a review of T-8573, Michael J. Zwart noted a discrepancy in the well log provided with the application, MORR 36, and indicated it may not be tied to the water right involved in the transfer. He believed the well tied to the water right being transferred was MORR 37. The fact that the well log MORR 36 was submitted as the well involved in the transfer supports that the well being used at that time to irrigate the ground was MORR 36. MORR 36 is the well being claimed as the source well for this COBU. Michael Zwart went on in his review to say that since MORR 36 and the well he believed was tied to the right being transferred, MORR 37, were close to each other his review would be the same regardless. A copy of the Interoffice

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Memo from Michael J. Zwart to File T-8573 & Bernadette Williams covering the above is attached.

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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 #2	1.49 cfs	1.70 cfs (well pump) 1.51 cfs (circle flow)	Not Applicable	Irrig	119.2	119.2

**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):

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Well #2

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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
1S	24E	W.M	26	NESW			Irrigation	26.4	
1S	24E	W.M	26	SESW			Irrigation	26.2	
1S	24E	W.M	26	NESE			Irrigation	0.6	
1S	24E	W.M	26	NWSE			Irrigation	33.2	
1S	24E	W.M	26	SWSE			Irrigation	32.3	
1S	24E	W.M	26	SESE			Irrigation	0.5	
Total Acres Irrigated								119.2	

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 was equipped with an airline.*

* At the time of the site visit there was no pump or associated airline installed in the well. The above information was derived from the SWL measurements made in connection with MORR 36 and recorded on the OWRD WRIS website.

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
Refer to MORR 36						

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.

Refer to MORR 36

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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Items 2 through 4 relating to this section were deleted.

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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: (WELL PUMP)

At the time of the site visit there was not a pump installed in the well. This claim is being made for beneficial use made during the 2001 – 2003 irrigation seasons. The pump information below comes from the notes made by Vernon Church for the Final Proof associated with Permit G-8701.

Note, this pump was also being used for other water rights.

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Peerless	Unknown	Unknown	Turbine		8"

3. Motor Information:

MANUFACTURER	HORSEPOWER
Westinghouse	100

Pump Information: (POND BOOSTER PUMP 1)

The pump information below comes from the notes made by Vernon Church for the Final Proof associated with Permit G-8701. During the site visit made on August 10, 2021 the motor hp for this pump was confirmed. Note, this pump was also being used for other water rights.

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Valley	Unknown	Unknown	Turbine (8x8)		8"

Motor Information:

MANUFACTURER	HORSEPOWER
NIDEC Motor Corp. US Motors	150

Pump Information: (POND BOOSTER PUMP 2)

The pump information below comes from the notes made by Vernon Church for the Final Proof associated with Permit G-8701. During the site visit made on August 10, 2021, the motor on this pump appeared to be a newer motor and was noted to be 150 hp. Based on Vernon Church's notes for the Final Proof associated with Permit G-8701, it is believed this pump was equipped with a 200 hp motor during the 2001 – 2005 irrigation season and that is what is being reported here. Note, this pump was also being used for other water rights.

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Peerless	Unknown	Unknown	Turbine (14x12)		12"

Motor Information:

MANUFACTURER	HORSEPOWER
NIDEC Motor Corp. US Motors	200

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)
100 Well Pump	0 psi	380 ft (SWL of 180 ft + 200 ft assumed drawdown)	-5 ft	1.70 cfs

5. Provide pump calculations:

WELL PUMP

Estimated Pumping head (TDH ft)

Pressure 0 psi at well head x 2.31 ft/psi =	0 ft
180 ft SWL (WRIS info) plus assumed 200 ft drawdown.	380 ft
Misc. 15 ft friction loss valves, fittings, and column	<u>35 ft</u>
	Total TDH 415 ft

$$Hp = \frac{TDH \times gpm}{3960 \times \text{eff.}} \text{ or } gpm = \frac{3960 \times \text{eff} \times hp}{TDH} = \frac{3960 \times 80\% \times 100 \text{ hp}}{415 \text{ ft}} = 763 \text{ gpm or } 1.70 \text{ cfs}$$

POND BOOSTER PUMP 1 (150 hp)

Estimated Pumping head (TDH ft)

Lift from pond to farmland (elev 1620 - elev 1375)	245 ft
Circle Pivot pressure (40 psi x 2.31 ft/psi)	92.4 ft
Misc. loss pipe friction, valves, fittings	<u>25 ft</u>
	Total TDH 362.4 ft

$$Hp = \frac{TDH \times gpm}{3960 \times \text{eff.}} \text{ or } gpm = \frac{3960 \times \text{eff} \times hp}{TDH} = \frac{3960 \times 80\% \times 150 \text{ hp}}{362.4 \text{ ft}} = 1311 \text{ gpm or } 2.92 \text{ cfs}$$

POND BOOSTER PUMP 2 (200 hp)

Estimated Pumping head (TDH ft)

Lift from pond to farmland (elev 1620 - elev 1375)	245 ft
Pivot pressure (40 psi x 2.31 ft/psi)	92.4 ft
Misc. loss pipe friction, valves, fittings	<u>25 ft</u>
	Total TDH 362.4 ft

$$Hp = \frac{TDH \times gpm}{3960 \times \text{eff.}} \text{ or } gpm = \frac{3960 \times \text{eff} \times hp}{TDH} = \frac{3960 \times 80\% \times 200 \text{ hp}}{362.4 \text{ ft}} = 1748.3 \text{ gpm or } 3.89 \text{ cfs}$$

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 Applicable			

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 FEB 14 2022

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
10"	3350 ft	Steel	Buried

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
Not Applicable			

10. Sprinkler Information:

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

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)
Valley		40 psi	681 gpm	1.51 cfs

E. Storage

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

YES

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

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If "YES" is it a: Storage Tank
Bulge in System / Reservoir

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NO

YES

Complete appropriate table(s), unused table may be deleted.

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2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
Not Applicable		

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Regulating Pond	10 ft Embankment	3.1 ac ft±

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.

Items 2 through 4 relating to this section were 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.

Items 2 through 4 relating to this section were deleted.

H. Additional notes or comments related to the system:

None

SECTION 5
CONDITIONS

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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-13962 June 7, 2001 Superseding Permit G-17360 Feb 26, 2015		
BEGIN CONSTRUCTION (A)	Not Stated		
COMPLETE CONSTRUCTION (B)	Not Stated	June 7, 2001 (Construction was complete at the time the permit was issued.)	Construction was complete at the time the permit was issued. The water user irrigated the ground.
COMPLETE APPLICATION OF WATER (C)	Original October 1, 2005. Extended to October 1, 2017	September 1, 2005 (Based on August 2005 Google image)	The water user irrigated the land and completed beneficial use of the water.

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

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

YES

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

a. Did the Extension Final Order require the submittal of Progress Reports? **NO**

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

b. Were the Progress Reports submitted? **Not Applicable**

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

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3. Initial Water Level Measurements:

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

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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

The actual measurement was made by OWRD in the later part of February. Even though the measurement was made in the later part of February it was within 7 days of the 1st of March and most likely would provide the same information that an early March measurement would have provided. Regarding this item, in OWRD files there are messages from Vernon Church and Mike Zwart to Ken Dowden suggesting the measurement period for this permit be February 15 -March 15 to allow synoptic measurements to be used by the permittee for the permit requirement. If that recommendation had been incorporated in the actual permit the SWL measurement period would have been February 15-March 15. A copy of the message is attached to this claim.

c. Was the measurement submitted to the Department? **YES**

SWL measurements for this well (MORR 36) were made by the department. The measurement for the period this claim is being made February 19, 2003, prior to the irrigation season 2003.

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

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT
Not Applicable			

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? **NO**

The actual measurements were made by OWRD in the later part of February. Even though the measurements were made in the later part of February they were within 9 days of the 1st of March and most likely would provide the same information that an early March measurement would have provided. Regarding this item, in OWRD files there are messages from Vernon Church and Mike Zwart to Ken Dowden suggesting the measurement period for this permit be February 15 -March 15 to allow synoptic measurements to be used by the permittee for the permit requirement. If that

recommendation had been incorporated in the actual permit the SWL measurement period would have been February 15-March 15. A copy of the message is attached to this claim.

- 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
Not Applicable			

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? NO
- c. Is the pump test attached to this claim? NO
- d. Has the pump test been approved by the Department? NO
- 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**

The water user has been made aware of the requirement for a pump test.

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

There is evidence in the discharge piping at the well head that a flow meter was installed when the well was being used. Notes by Vernon Church associated with the Final Proof for Permit G-8701 indicate there was a flow meter installed on this well. Also, the power company, Columbia Basin Electric Coop. had an electrical meter installed for the well pump that could be used to determine flow and or water use.

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c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well #2	Unknown	Unknown		Unknown	Prior to issuance of the permit.

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

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? **NA**

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

NAME	TITLE	APPROXIMATE DATE
Not Applicable		

f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED
Not Applicable		

7. Recording and reporting conditions:

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

During the period for which beneficial use is being claimed the water user was not required to report water use.

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

Item b relating to this section was deleted.

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

- a. Were there special well construction standards? **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? **NO**

WELL ID #	DATE ATTACHED TO WELL
NA	

e. Other conditions? **NO**

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

Not Applicable

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**SECTION 6
ATTACHMENTS**

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

ATTACHMENT NAME	DESCRIPTION
COBU Map	COBU Map
Well Log	Well Log for MORR 36
Attachment 1	Description of Works associated with Permit G-8701 prepared by Vernon Church, 3-16-82.
Attachment 2	Interoffice Memo from Michael Zwart to File T-8573 and Bernadette Williams. Notes well MORR 36 as possibly not being the well tied to water right involved in T-8573.
Attachment 3	Messages from Vernon Church & Mike Zwart re G-15198 Initial Review and the recommended period of SWL measurements.
Attachment 4	Static Water Level Measurements

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 information obtained during the site visit, the permit application map, the permit amendment map, Morrow County tax lot maps, and a 2005 Google image.

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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
- NA 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
- NA 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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WELL 7 (100'±) 7' ... 5.2 CFJ
100'± 15'± 17'± 100'± 5.2 CFJ
PUMP 600+200 GPM = 52 CFJ
NO PUMP WELL 7 SWR, SEE 61-4077 & 66784
MAKE TRANSFER TO CONDUIT

pg 21
Well 1 98752.pdf Description of works

Info: (Name, address, special remarks from the appl.) MERUINI PADREDC
POUND 2 A 10' HIGH EARTH EMBANKMENT WITH A SCREST 3' DOWN STEEP SLOPES
2:1 UPSTREAM SLOPES IMPOUNDS A PARTIALLY EXCAVATED PLASTIC LINED
STILLING POND TO REDUCE TURBIDITY OF RUNN OFFER & WELL WATER TO
BE PUMPED TO CENTRAL TUNNELS

Use: _____ If the use is supp'l does he use the primary? _____ If not,
Has it gone for five or more years without being used? _____

Well: D: 400 C: 12 SWL: 160 DD: 15 GPM MAX.: 1600 WELL 300 HP
300 12 160 15 500 300 HP
HAS NO PUMP AT THIS TIME

Art. Flow: Measurement port airline or other _____

Flow meter: YES reading _____

Electric _____ reading _____

Pump and motor: 2 Make WESTINGHOUSE Hp 100 Rpm 725 Booster Pump US 150 HP @ 1775
VALLEY 8x8

2 Make WHEELLESS Intake _____ Discharge 8" US 200 HP @ 1775
PERFECT 14x12

Rating: GPM _____ Head _____ Pressure at pump: _____

Pipe: Main line-Size _____ Length _____ Kind of pipe _____

Lateral lines: Size _____ Length _____ Kind of pipe _____

Remarks: 1 1/2 12" 3 1/2 10" 1 10" 1 6" 3 MACHINE 900 gpm
800 gpm
THESE 3 MACHINES ARE NEEDED TO COVER ALL 8 CIRCLES 700 gpm

Sprinkler Heads: Make _____ Size of Nozzles _____

Number of heads used _____ Discharge capacity of each _____ gpm

Operating pressure _____ Max at one time _____

Crop: WHEAT Lift: +175 Tie: 775-1978-D-D
775-377-265

Remarks by appl. THE WATER IS PUMPED INTO A POND THEN IS REPUMPED
TO THE C.P.

Applicant's Signature _____

Remarks by Examiner: WELL 1 IS PLUGGED AT 300' THERE IS NO
PUMP FACTOR IN THE WELL WELL 1 WAS DRILLED DOWN
TO 1500' BUT THE WENT DOWN TO 800' SO THEY PLUGGED IT
OFF AT 300'

3-16-82
Date

WELL 1600
4002 500
667

[Signature]
Water Right Examiner
PRE "C"
NO PUMP IN

OREGON WATER RESOURCES DEPARTMENT
INTEROFFICE MEMO

To: File T-8573 & Bernadette Williams Date: October 13, 2000
 From: Michael J. Zwart
 Subject: Transfer Review: T-8573, John Vanden Brink

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Another nearby domestic well owner, Paul Tews, has raised concerns about the proximity of the proposed new well and its possible impact on his irrigation well. He is coming to the office today at 10:00 to meet with me about this.

In reviewing well logs and other data in this area, I noted two slight discrepancies with the transfer application previously reviewed. The well log provided with the application, MORR 36, may not be tied to the water right involved in the transfer. Another deeper well, MORR 37, is the well log I believe is tied to this right. The two wells are close to each other and my review would be the same regardless. Also, the proposed well location on the transfer map does not agree with the legal description for the well.

There are very few well logs in this area to review. Therefore, in the absence of such subsurface information, it is probably reasonable to presume that the proposed new well will develop water-bearing zones in the basalt that are in hydraulic connection with those developed by Mr. Tews' well. Then, predictions can be made as to the potential interference effects (drawdown) at the Tews well caused by pumping the proposed well. Using conservatively low values for the hydraulic characteristics (transmissivity and storage coefficient) of the basalt aquifer and a continuous pumping rate of 225 gallons per minute, drawdown was predicted at a distance of 10,000 feet.

After one year of pumping, drawdown of about 3.6 feet is estimated.
 After ten years of pumping, drawdown of about 4.8 feet is estimated.

Using higher values for aquifer characteristics results in less predicted drawdown. However, other factors, such as unmapped ground water flow boundaries, could result in increased drawdown on one side of such boundaries and little or no drawdown on the other.

Department staff presently measure water levels at the Tews well and one of the Padberg wells annually in late February or early March. It is possible that the proposed new well will be measured at this same time when it is completed. This will allow tracking of any potential impacts to the resource and nearby users.

PFO CHECKLIST

Application #: G-15198

Pgs 175-178

Basin: UNATELLA WID: _____
County: MORROW Township: LS Range: 24 E Section: 26 1/4 1/4

- 1. Is the file complete by the Minimum Requirements Checklist? Y N
- 2. Shortcomings (items needed before a permit and/or FO can be issued) Y N
Check file for indicators that the process should not continue until a later date (ie - protest, letter to file indicating hold, or other)

- 3. Groundwater Review A B C D River/Stream Name _____ Conditions 7B, 7C
 - a. Groundwater Availability A B C
 - b. Is second groundwater review necessary? (comments) Y N
 - c. Is HB 1033 review complete? Y N
 - d. Is the well located in a GWLA or CA? (If applicable, include map with POD) Y N

Is use from a B.O.R. or Douglas County project? Y N Contract in file? Y N Contract # _____

Is the use allowed by the Basin Program? Y N Limited? Y N 690-507-0090 (6) (B) UNATELLA

Water Availability Data OK / REDONE NA (50% before July 17, 1992; 80% live flow & 50% storage after July 17, 1992)

Is the source withdrawn or limited by statute or Department withdrawal order? Y N

Is the Proposed Use located in or above a Scenic Waterway? Y N

Division 33: Above Bonn (after July 17, 1992) Y N / NA
Below Bonn (after April 8, 1994; June 3, 1994) Y N / NA
Statewide - (in shaded areas on T, E, and S Map - after June 3, 1994) Y N / NA

Per the IR, is the Proposed Source on the DEQ 303d List? Y N If so, any comments received? Y N
Is the Proposed Use in an existing or draft Dept of Ag. Water Quality Management Plan Area? Y N

Have conflicts been addressed? Y N UNDERLYING RIGHTS TO BE TRANSFERRED OFF PER

Rate 1/80 Duty 3.0 Irrigation Season MAR 1 - OCT 31

Period of Allowed Use MAR 1 - OCT 31

Allowed Rate of Use 1.49 CUBIC FEET PER SECOND

Is the use Small (≤ 0.1 cfs, ≤ 9.2 AF), Medium (> 0.1 or < 1.5 cfs, > 9.2 or < 100 AF) or Large (≥ 1.5 cfs, ≥ 100 AF)?
If the use is Municipal and ≤ 0.1 CFS, use Large condition.

Conditions 5 mi. LANGUAGE 7B 7C
Is the proposed use within the New River Basin? Y N If yes, include New River Agreement Conditions.

IR Public Notice Date 12/19/00 Comments Received Y N CITY of HAMILTON

Was the application filed on or after October 23, 1999? Y N If yes, then no A date.

- 19. Final Report Checklist
 - Documents used in determination are attached to this checklist and highlighted
 - Fill out PFO CC List (don't forget to check for other property owners)
 - a. Re-notify Water Availability? (Rate, Duty and Period of Allowed Use changes) Y N
 - b. Check Watermaster Dist. on the CC list and draft permit.
 - Spell Check and Accuracy Check
 - Final PFO report hard copy check (format, margins, etc.)
 - Final PFO has been saved to m:\groups\lwr\pfo\done\week#\Application #

Name: JOHN J. SANDEN Date: 3/13/01

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12/6/00

MED.

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.
- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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TO PERSON GENERATING

DFO:

ALSO, SEE ATTACHED MEMOS →

MACRO → MEDIUM SHOULD HAVE BEEN APPLIED TO THE APPLICATION SINCE 1.49 CUBIC FEET PER SECOND TRIGGERS

"METER SHALL BE INSTALLED." WORD JARG.

VERN CHURCH CALLED ON THIS AND BROUGHT TO MY ATTENTION. KEN DOUGLASS

X-Sender: zwartmj@mailhub.wrd.state.or.us
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Thu, 07 Dec 2000 07:57:58 -0800
To: Kenneth.D.DOWDEN@wr.d.state.or.us
From: Mike Zwart <Mike.J.ZWART@wr.d.state.or.us>
Subject: Fwd: file G-15198 initial review

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Ken,

I agree with Vern. I usually specify condition 7D, rather than 7C in the Umatilla Basin, so that the measurement period can be specified as Feb. 15 to Mar 15. This would allow synoptic measurements, if we make them, to be used by the permittee for the permit requirement.

Mike

Reply-To: <Vernon.L.CHURCH@wr.d.state.or.us>
From: "Vern Church" <Vernon.L.CHURCH@wr.d.state.or.us>
To: "Ken Dowden" <Kenneth.D.DOWDEN@wr.d.state.or.us>
Cc: "Mike Zwart" <Mike.J.ZWART@wr.d.state.or.us>, "Mike Ladd" <Michael.F.LADD@wr.d.state.or.us>
Subject: file G-15198 initial review
Date: Wed, 6 Dec 2000 16:33:12 -0800
X-Mailer: Microsoft Outlook IMO, Build 9.0.2416 (9.0.2910.0)
Importance: Normal

Hi Ken, after our conversation this morning, I talked to Mike Zwart concerning the conditions on the initial review. I would like to see a couple of changes, if possible, to this review.

1. Under 1A. I would like the word "shall" instead of "may". Mr. Padberg already has a flowmeter on this well I don't want him to think he can pull it or that the flowmeter is not required.

2. Under 1B. I would like the word "shall" instead of "may".

3. Under 3. I would like "The static water level shall be measured from Feb. 15 to March 15.

If you have any questions, please call.

Michael J. Zwart
Hydrogeologist

Reply-To: <Vernon.L.CHURCH@wrd.state.or.us>
From: "Vern Church" <Vernon.L.CHURCH@wrd.state.or.us>
To: "Ken Dowden" <Kenneth.D.DOWDEN@wrd.state.or.us>
Cc: "Mike Zwart" <Mike.J.ZWART@wrd.state.or.us>, "Mike Ladd" <Michael.F.LADD@wrd.state.or.us>
Subject: file G-15198 initial review
Date: Wed, 6 Dec 2000 16:33:12 -0800
X-Mailer: Microsoft Outlook IMO, Build 9.0.2416 (9.0.2910.0)
Importance: Normal

RECEIVED

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2. Under 1B. I would like the word "shall" instead of "may".

3. Under 3. I would like "The static water level shall be measured from Feb. 15 to March 15."

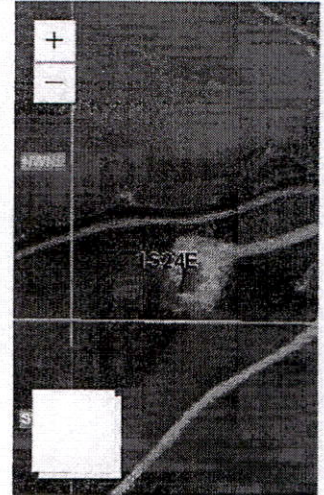
If you have any questions, please call.

Site Identification (Click to Collapse...)

GW LogID: MORR 36 [Well Log Database](#)
GW Well Tag Number:
Tag Verified on Well: No
Site Type: WELL
Primary Use: IRRIGATION
Unused Status:
Site Source Organization:
Site Source OWRD:
Established By: MIKE ZWART
Established Date: 07/25/2001
Bonded Company:
Stage: COMPLETE

Location (Click to Collapse...)

Latitude/Longitude
Latitude: 45.44026863 **Horiz. Error:** 13.00 ft.
Longitude: -119.78270699 **Datum:** WGS1984
Lat/Long Source: GPS
Location
TRSQQ: WM 1.00S24.00E35NENE
Tax Map:
Taxlot:
24 Quad: IONE SOUTH
Basin: 7 - Umatilla
County: Morrow
WM District: 21
WM Region: NC
LSD Elev: 1420.00 **Acqy:** 10.00 **Datum:** NGVD1929
Elev Source: 7.5-MINUTE MAP
[Groundwater Mapping Tool](#)



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Water Rights (Click to Expand...)

Well Construction History (Click to Collapse...)

Well Construction History

OWRD

Well Log Id	Well Log	Work Type	Startcard	Well Tag	Owner Name	First Water	Max Case. Diam.	Max Case. Depth.	Max Seal Depth.	Max Depth	Completed
MORR 36	LOG	NEW			MARVIN PADBERG	195.00	12			400.00	

Well Log	Aquifer	Aq at Max Depth	System Aquifer	Regional USGS Aquifer	Lo
MORR 36	Columbia River Basalt	Late Tertiary Basalt Aq	Late Tertiary Basalt Aquifers		Columbia River Bz

Well Test

No data matches search criteria.

Measured Water Level (Click to Collapse...)

Records/Page: 20

Measured Water Level

Date	Time	Water Level (BUSD)	WL Elev (ft AMSL)	Organization	OWRD	Method	Status	MP Height
2/19/2020	12:48:00	212.14	1207.86	OWRD	GWATER	ETAPE CALIBRATED	STATIC	0.40
2/21/2019	13:44:00	211.86	1208.14	OWRD	GWATER	ETAPE CALIBRATED	STATIC	0.40
2/21/2018	10:29:00	210.36	1209.64	OWRD	GWATER	ETAPE CALIBRATED	STATIC	0.40
2/23/2017	14:50:00	209.40	1210.60	OWRD	GWATER	ETAPE	STATIC	0.40
2/24/2016	12:52:00	207.26	1212.74	OWRD	GWATER	ETAPE CALIBRATED	STATIC	0.40
2/18/2015	09:41:00	204.66	1215.34	OWRD	GWATER	ETAPE CALIBRATED	STATIC	0.40
2/27/2014	08:01:00	201.47	1218.53	OWRD	GWATER	ETAPE CALIBRATED	STATIC	0.40
2/27/2013	13:20:00	198.59	1221.41	OWRD	GWATER	ETAPE	STATIC	0.40
2/22/2012	11:35:00	198.30	1221.70	OWRD	GWATER	ETAPE CALIBRATED	STATIC	0.40
2/25/2011	13:30:00			OWRD	GWATER	NOT MEASURED	UNKNOWN	
2/23/2010	13:40:00	197.99	1222.01	OWRD	GWATER	AIRLINE	STATIC	
2/25/2009	13:34:00	196.83	1223.17	OWRD	GWATER	AIRLINE	STATIC	
2/20/2008	11:33:00	192.68	1227.32	OWRD	GWATER	AIRLINE	STATIC	
2/21/2007	12:10:00	189.21	1230.79	OWRD	GWATER	AIRLINE	STATIC	
2/23/2006	15:12:00	188.75	1231.25	OWRD	GWATER	AIRLINE	STATIC	
2/23/2005	12:23:00	185.75	1234.25	OWRD	GWATER	AIRLINE	STATIC	
2/20/2004	12:45:00	184.59	1235.41	OWRD	GWATER	AIRLINE	STATIC	
2/19/2003	11:25:00	177.66	1242.34	OWRD	GWATER	AIRLINE	STATIC	
2/21/2002	11:30:00	178.82	1241.18	OWRD	GWATER	AIRLINE	STATIC	
2/24/2000	11:50:00	179.97	1240.03	OWRD	GWATER	AIRLINE	STATIC	

Flow Meter/Power Meter (Click to Expand...)

Available Data (Click to Expand...)