



**Permit Amendments**

- If you propose to amend multiple permits under this application, a separate set of pages 3 through 7 must be provided for each permit. (**NOTE:** Concurrent changes to a water right must be filed separately on a transfer application.)

**Ground Water Registration Modifications**

- You may propose modification of only one ground water registration per application, unless in accordance with OAR 690-382-0300(2), the ground water registrations to be modified are layered. (**NOTE:** Concurrent changes to a water right must be filed separately on a transfer application.)

**4. TYPE OF AMENDMENT OR MODIFICATION PROPOSED**

Please check all of the following that apply:

Point of Diversion or Appropriation	Place of Use	Character of Use
<input type="checkbox"/> <b>Change</b> (The old point of diversion or appropriation will <b>not</b> be used for the portion of the water right affected by the amendment or modification.)  <input checked="" type="checkbox"/> <b>Additional</b> (Both the old <u>and</u> new points of diversion or appropriation will be used for the portion of the water right affected by the amendment or modification.)  <p style="text-align: center;"><i>Not Available for <u>Ground Water Registrations</u></i></p> <input type="checkbox"/> <b>Surface Water to Ground Water</b> (A new point of appropriation will be used <b>instead of</b> the old point of diversion. The old point of diversion will <b>not</b> be used.)	<input checked="" type="checkbox"/> <b>All of the Permit or Registration will be exercised at a different location than currently authorized</b> (Use of water at the current authorized location will be discontinued.)  <input type="checkbox"/> <b>Only a portion of the Permit or Registration will be exercised at a different location than currently authorized</b> (Use of water at a <u>portion</u> of the current authorized location will be discontinued.)	<p style="text-align: center;"><i>Not Available for <u>Permit Amendments</u></i></p> <p><b>Change existing authorized use to the following proposed <u>new</u> use:</b></p> <input type="checkbox"/> Irrigation <input type="checkbox"/> Municipal <input type="checkbox"/> Quasi-municipal <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> <b>Domestic</b> (indicate number of households): _____ <input type="checkbox"/> <b>Other</b> _____

- Reason(s) for amendment/modification(s): The City is adding additional points of appropriation to two water right permits (G-4435 & G-8565) to increase operational flexibility. The City is proposing to modify the place of use (POU) for Permit G-8565 to better reflect the current service area. The POU for permit G-4435 was previously amended by T8783 and T-10351.

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**5. CURRENT PERMIT OR REGISTRATION INFORMATION**

Permit or Registration to be Amended/Modified (check and complete one of the following):

<input checked="" type="checkbox"/> Permit to be Amended:	<u>G-8565</u> Permit Number	<u>10/1/2020</u> Current Completion Date of Permit
<input type="checkbox"/> Ground Water Registration to be Modified:	_____ Ground Water Registration Number	<i>NOTE: Concurrent changes to a water right must be filed separately on a transfer application.</i>

- Name on Permit or Registration: M.R.S. Company, Inc.
- County: Deschutes
- Authorized Use(s) to be affected by this Amendment/Modification: Quasi-Municipal

- Priority Date(s): December 22, 1978

*If there are multiple Priority Dates identified on the Permit or Registration, any information provided on pages 4 through 7 must identify which priority date is associated with each of the authorized and proposed points of diversion or appropriation and places of use.*

- All Source(s) of Water to be affected by this Amendment/Modification: groundwater in the Deschutes Basin

Tributary to: N/A

*If there are multiple Sources listed on the Permit or Registration, any information provided on pages 4 through 7 must identify which source is associated with each of the authorized and proposed points of diversion or appropriation and places of use.*

**For an application proposing a Change in Place of Use or Character of Use:**

- Are there any other "Layered" Water Rights, Permits, or Ground Water Registrations issued for Irrigation purposes that are appurtenant to the same place of use as the Permit or Registration being Amended/Modified?  Yes  No  N/A -No Change in Use or Place of Use

If "Yes", pursuant to ORS 540.510, OAR 690-380-2240 and OAR 690-382-0200, the other "layered" water uses subject to transfer must either change concurrently or be cancelled, except as provided in OAR 690-380-2240(5).

- Remarks: \_\_\_\_\_

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- The following information **must be provided** only for those points of diversion or appropriation that **are involved in the permit amendment or ground water registration modification** (i.e., **list only the portion of the permit/registration you propose to amend/modify.**) Attach additional pages as necessary.

Government lot and donation land claim numbers must be included in the tables below **only** if the information is reflected on the existing permit or ground water registration.

**Location of Existing Authorized Point(s) of Diversion or Appropriation to be Changed:**

(i.e., the allowed point(s) of diversion/appropriation that will be affected by the proposed amendment/modification, the "FROM" point(s) of diversion/appropriation)

If Ground Water, OWRD Well Log ID No. (or Well ID Tag No. L-___)	Source and Priority Date	Township	Range	Mer	Sec	¼ ¼	Survey Coordinates (coordinates from a recognized survey corner)
DESC 5586 (Westwood)	groundwater 12/22/1978	18 S	12 E	WM	7	NW NW	SOUTH 11 DEGREES 18 MINUTES 36 SECONDS EAST, 485.52 FEET FROM NW CORNER, SEC. 7

- Does the permit/registration being amended/modified involve a ground water source(s)?  
 Yes       No (Surface water source only.)

If "Yes", for each authorized point of appropriation (well) involved, you must either:

A. Supply a copy of the well log(s) for each point of appropriation that is **clearly labeled** and associated with the corresponding well in the table above and on the accompanying application map.

(NOTE: You may search for well logs on the Department's website at: [www.wrd.state.or.us](http://www.wrd.state.or.us))

**or**

B. If a well log is **not** available, you must describe the construction of the authorized point of appropriation by completing the table below. Attach additional copies as necessary.

**Construction of Existing Authorized Point(s) of Appropriation – (Only needed if no well log is available.)**

Wells in this listing must be **clearly tied** to corresponding well location(s) described in the table above and shown on the accompanying application map.

OWRD Well No. as identified in table above	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
Please see Attachment A for authorized POA well logs (G4435 & G-8565)									
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**6. PROPOSED PERMIT AMENDMENT OR REGISTRATION MODIFICATION**

- Describe proposed changes to the permit or registration involving point(s) of diversion and/or appropriation. Survey coordinates described below should accurately correspond to the points shown on the accompanying application map. Attach additional pages as necessary.

**Location of Proposed Point(s) of Diversion or Appropriation:** (i.e., the "TO" point(s) of diversion/appropriation)

(NOTE: Complete this table **only** if a Change in Point of Diversion or Appropriation is being proposed.)

Source	Township	Range	Mer	Sec	¼ ¼ Section	Survey Coordinates (coordinates from a recognized survey corner)
groundwater (Pilot Butte 4) DESC 58778	17 S	12 E	WM	33	NE NE	South 20° 06' 13" East, 1175 feet from the NW corner of Sec. 33
groundwater (Shiloh 3) DESC 5613	18 S	12 E	WM	16	SW NW	South 1° 39' 08" East, 2133 feet from the NW corner of Sec. 16
groundwater (Hole Ten 1) DESC 5655	18 S	12 E	WM	20	SW NE	South 59° 42' 21" West, 2752 feet from the NE corner of Sec. 20
groundwater (Hole Ten 2) DESC 5654	18 S	12 E	WM	20	SW NE	South 59° 19' 20" West, 2764 feet from the NE corner of Sec. 20

- If there are proposed point(s) of appropriation (wells) listed in the table above, are the well(s) already constructed?  Yes     No     N/A - No proposed well(s) listed above.

If "Yes", attach and **clearly label** the corresponding well log(s) for each proposed well, or if well log(s) are **not** available, describe the construction of the well(s) using the table below.

(NOTE: You may search for well logs on the Department's website at: [www.wrd.state.or.us](http://www.wrd.state.or.us))

If "No", describe the anticipated construction for the proposed well(s) in the following table:

**Construction of Proposed Point(s) of Appropriation or Well(s):**

Well numbers in this listing must be clearly tied to corresponding well location(s) described in the table above and shown on the accompanying application map.

Well already built? (Yes/No)	If an existing well, OWRD Well Log ID No. (or Well ID Tag No. L- )	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
Please see Attachment C for proposed POA well logs										

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**5. CURRENT PERMIT OR REGISTRATION INFORMATION**

Permit or Registration to be Amended/Modified (*check and complete one of the following*):

<input checked="" type="checkbox"/> Permit to be Amended:	<u>G-4435</u> <small>Permit Number</small>	<u>10/1/2020</u> <small>Current Completion Date of Permit</small>
<input type="checkbox"/> Ground Water Registration to be Modified:	_____ <small>Ground Water Registration Number</small>	<i>NOTE: Concurrent changes to a water right must be filed separately on a transfer application.</i>

- Name on Permit or Registration: City of Bend
- County: Deschutes
- Authorized Use(s) to be affected by this Amendment/Modification: Municipal

- Priority Date(s): November 8, 1968  
*If there are **multiple Priority Dates** identified on the Permit or Registration, any information provided on **pages 4 through 7** must identify which priority date is associated with each of the authorized and proposed points of diversion or appropriation and places of use.*

- All Source(s) of Water to be affected by this Amendment/Modification: groundwater  
 Tributary to: N/A

*If there are **multiple Sources** listed on the Permit or Registration, any information provided on **pages 4 through 7** must identify which source is associated with each of the authorized and proposed points of diversion or appropriation and places of use.*

**For an application proposing a Change in Place of Use or Character of Use:**

- Are there any other "**Layered**" Water Rights, Permits, or Ground Water Registrations issued for **Irrigation** purposes that are appurtenant to the same place of use as the Permit or Registration being Amended/Modified?  Yes  No  N/A -No Change in Use or Place of Use

If "**Yes**", pursuant to ORS 540.510, OAR 690-380-2240 and OAR 690-382-0200, **the other "layered" water** uses subject to transfer **must either change concurrently or be cancelled**, except as provided in OAR 690-380-2240(5).

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- The following information **must be provided** only for those points of diversion or appropriation that **are involved in the permit amendment or ground water registration modification** (i.e., **list only the portion of the permit/registration you propose to amend/modify.**) Attach additional pages as necessary.

Government lot and donation land claim numbers must be included in the tables below **only** if the information is reflected on the existing permit or ground water registration.

**Location of Existing Authorized Point(s) of Diversion or Appropriation to be Changed:**

(i.e., the allowed point(s) of diversion/appropriation that will be affected by the proposed amendment/modification, the "FROM" point(s) of diversion/appropriation)

If Ground Water, OWRD Well Log ID No. (or Well ID Tag No. L-___)	Source and Priority Date	Township	Range	Mer	Sec	¼ ¼	Survey Coordinates (coordinates from a recognized survey corner)
Not yet built (Lava Island 1)	groundwater 11/8/1968	18 S	11 E	WM	27	SW NW	South 5° 08' East 1902 feet from the NW corner of Sec. 27
Not yet built (Lava Island 2)	groundwater 11/8/1968	18 S	11 E	WM	27	SW NW	South 20° 29' East 1749 feet from the NW corner of Sec. 27
Not yet built (Lava Island 3)	groundwater 11/8/1968	18 S	11 E	WM	27	SW NW	South 18° 30' East 2010 feet from the NW corner of Sec. 27
Not yet built (Lava Island 4)	groundwater 11/8/1968	18 S	11 E	WM	27	NW NW	South 15° 10' East 1155 feet from the NW corner of Sec. 27
Not yet built (Lava Island 5)	groundwater 11/8/1968	18 S	11 E	WM	28	SE NE	South 8° 00' West 1420 feet from the NW corner of Sec. 27
Not yet built (Lava Island 6)	groundwater 11/8/1968	18 S	11 E	WM	27	NW NW	South 13° 35' East 675 feet from the NW corner of Sec. 27
Not yet built (Lava Island 7)	groundwater 11/8/1968	18 S	11 E	WM	28	NE NE	South 13° 15' West 435 feet from the NW corner of Sec. 27
Not yet built (Lava Island 8)	groundwater 11/8/1968	18 S	11 E	WM	28	NE NE	South 27° 40' West 990 feet from the NW corner of Sec. 27
DESC 54251 (Bear Creek 2)	groundwater 11/8/1968	17 S	12 E	WM	33	SE SE	North 32° 38' 11" West 926.8 feet from the SE corner of Sec. 33
DESC 53735 (Outback 3)	groundwater 11/8/1968	17 S	11 E	WM	34	SW SE	North 82° 22' 27" West 2677.7 feet from the SE corner of Sec. 34
DESC 54252 DESC 55365 (Outback 4)	groundwater 11/8/1968	17 S	11 E	WM	34	SW SE	North 77° 01' 13" West 2592.7 feet from the SE corner of Sec. 34
DESC 56371 (Outback 5)	groundwater 11/8/1968	17 S	11 E	WM	34	SE SW	North 38° 50' 59" West 241.7 feet from the SW corner of the SE ¼ of Sec. 34
DESC 56449 (Outback 6)	groundwater 11/8/1968	17 S	11 E	WM	34	SE SW	North 45° 11' 27" West 458.7 feet from the SW corner of the SE ¼ of Sec. 34

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- Does the permit/registration being amended/modified involve a ground water source(s)?  
 Yes       No (Surface water source only.)

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If "Yes", for each authorized point of appropriation (well) involved, you must either:

- A. Supply a copy of the well log(s) for each point of appropriation that is **clearly labeled** and associated with the corresponding well in the table above and on the accompanying application map.

(NOTE: You may search for well logs on the Department's website at: [www.wrd.state.or.us](http://www.wrd.state.or.us))

**or**

- B. If a well log is **not** available, you must describe the construction of the authorized point of appropriation by completing the table below. Attach additional copies as necessary.

**Construction of Existing Authorized Point(s) of Appropriation – (Only needed if no well log is available.)**

Wells in this listing must be **clearly tied** to corresponding well location(s) described in the table above and shown on the accompanying application map.

OWRD Well No. as identified in table above	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
See Attachment A for well logs for the POAs already constructed; Lava Island Wells 1-8 not yet built.									

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- ***The following information must be provided only for those places of use that are involved in the permit amendment or ground water registration modification (i.e., list only the portion of the permit/registration you propose to amend/modify.) Attach additional pages as necessary.***

*Government lot and donation land claim numbers must be included in the tables below **only** if the information is reflected on the existing permit or ground water registration.*

**Location of Existing Authorized Place of Use to be Affected:**

*(i.e., the allowed lands that will be affected by the proposed amendment/modification, the "FROM" lands)*

Source and Priority Date	Township	Range	Mer	Sec	¼ ¼ Section	Tax Lot, DLC or Gov't Lot	Acres (if applicable)
Please see Attachment B for currently authorized POU							
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**6. PROPOSED PERMIT AMENDMENT OR REGISTRATION MODIFICATION**

- Describe proposed changes to the permit or registration involving point(s) of diversion and/or appropriation. Survey coordinates described below should accurately correspond to the points shown on the accompanying application map. Attach additional pages as necessary.

**Location of Proposed Point(s) of Diversion or Appropriation:** (i.e., the "TO" point(s) of diversion/appropriation)

(NOTE: Complete this table **only** if a Change in Point of Diversion or Appropriation is being proposed.)

Source	Township	Range	Mer	Sec	¼ ¼ Section	Survey Coordinates (coordinates from a recognized survey corner)
groundwater (Pilot Butte 4) DESC 58778	17 S	12 E	WM	33	NE NE	South 20° 06' 13" East, 1175 feet from the NW corner of Sec. 33
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groundwater (Hole Ten 1) DESC 5655	18 S	12 E	WM	20	SW NE	South 59° 42' 21" West, 2752 feet from the NE corner of Sec. 20
groundwater (Hole Ten 2) DESC 5654	18 S	12 E	WM	20	SW NE	South 59° 19' 20" West, 2764 feet from the NE corner of Sec. 20

- If there are proposed point(s) of appropriation (wells) listed in the table above, are the well(s) already constructed?  Yes     No     N/A - No proposed well(s) listed above.

If "Yes", attach and clearly label the corresponding well log(s) for each proposed well, or if well log(s) are **not** available, describe the construction of the well(s) using the table below.

(NOTE: You may search for well logs on the Department's website at: [www.wrd.state.or.us](http://www.wrd.state.or.us))

If "No", describe the anticipated construction for the proposed well(s) in the following table:

**Construction of Proposed Point(s) of Appropriation or Well(s):**

Well numbers in this listing must be clearly tied to corresponding well location(s) described in the table above and shown on the accompanying application map.

Well already built? (Yes/No)	If an existing well, OWRD Well Log ID No. (or Well ID Tag No. L- )	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
Please see Attachment C for well logs.										
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- Describe proposed changes to the permit or registration involving place of use. Information described below should accurately correspond to the proposed place of use shown on the accompanying application map. Attach additional pages as necessary.

**Location of Proposed Place of Use:** (i.e., the "TO" lands)

(NOTE: Complete this table only if a Change in Place of Use is being proposed.)

Source	Township	Range	Mer	Sec	¼ ¼ Section	Tax Lot, DLC or Gov't Lot	Acres (if applicable)
N/A – No change in POU							

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Remarks: \_\_\_\_\_

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**7. AFFECTED DISTRICTS AND LOCAL GOVERNMENTS**

- Are any of the Permit(s) or Registration(s) proposed for amendment/modification located within or served by an irrigation or other water district?  Yes  No
- Will any of the Permit(s) or Registration(s) be located within or served by an irrigation or other water district after the proposed amendment/modification?  Yes  No
- Is water for any of the Permit(s) or Registration(s) supplied under a water service agreement or other contract for stored water with a federal agency?  Yes  No

*If "Yes", for any of the above, list the name and mailing address of the district and/or agency:*

Arnold Irrigation District – 19600 Buck Canyon Rd. Bend, OR 97702

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- List the name and mailing address of all affected local governments (e.g., county, city, municipal corporation, and tribal governments within whose jurisdiction the right(s) are located).

City of Bend Community Development – 710 NW Wall St. Bend, OR 97701

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**8. PERMIT HOLDER OF RECORD**

*This section is to be completed only for Permit Amendment applications.*

*N/A – This is a Ground Water Registration Modification application.*

- Is the applicant the permit holder of record?  Yes  No

*If "No", the applicant must either:*

A. *Be assigned as a permit holder of record by submitting a completed **Request for Assignment** form and the required statutory fee for an assignment;*

**or**

B. *Submit an **Affidavit of Consent** from the permit holder of record that gives permission for the applicant to amend the permit.*

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**9. LAND OWNERSHIP**

**If for a Permit Amendment proposing a Change in Place of Use:**

- Does the permit holder of record own or control the land **TO** which the place of use is being moved?  Yes  No *N/A - the applicant is a municipality*

*If "No", the owner of the land TO which the place of use is being moved **must be assigned to the permit as a permit holder of record** by submitting a completed Request for Assignment form and the required statutory fee for an assignment.*

- Check one of the following:  
 The permit holder of record will be responsible for completion of the proposed changes after the final order is issued. All notices and correspondence should be sent to the permit holder of record.  
 The applicant will remain responsible for completion of changes. Notices and correspondence should continue to be sent to the applicant and applicant's agent.

**If for a Ground Water Registration Modification:**

- Does the applicant own the lands **FROM** which the registration is being moved?  Yes  No  
*If "No", provide the following information:*

Names of Current Landowner(s): N/A  
FirstLast

Address: \_\_\_\_\_  

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CityStateZip

- Does the applicant own the lands **TO** which the registration is being moved?  Yes  No  
*If "No", provide the following information:*

Names of Receiving Landowner(s): \_\_\_\_\_  
FirstLast

Address: \_\_\_\_\_  

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CityStateZip

- Check one of the following:  
 The receiving landowner will be responsible for completion of the proposed changes after the final order is issued. All notices and correspondence should be sent to this landowner.  
 The applicant will remain responsible for completion of changes. Notices and correspondence should continue to be sent to the applicant and applicant's agent.

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**Before submitting your application to the Department, be sure you have:**

- Answered each question completely.
- Included all the required attachments.
- Provided original signatures for **all** named deed holders, or other parties, with an interest in the water right.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount.

**11. SIGNATURES**

- **For Ground Water Registration Modification Applications only, check the appropriate one and sign the application in the signature box below:      – N/A–**

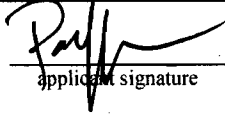
In accordance with OAR 690-382-0400(16)(a), I (we) understand that prior to Department approval of a permanent modification and upon my receipt of a draft Preliminary Determination for the proposed modification, I (we) will be required [pursuant to OAR 690-382-0700(5)] to provide the following landownership information and evidence demonstrating that I (we) are authorized to pursue the modification:

- (a) A report of ownership and lien information that has been prepared by a title company *within the last three months*;
- (b) A copy of written notification of the proposed modification provided by the applicant to **all** lien holders on the subject lands unless the report of ownership and lien information shows that a water right conveyance agreement has been recorded for the subject lands. *If a water right conveyance agreement has been recorded for the subject lands, a copy of the recorded agreement and a listing of the owner(s) of the lands at the time the agreement was recorded must be submitted; and*
- (c) If the applicant is **not both** the person named on the ground water registration or the assignee **and** the owner of the lands to which the registration is appurtenant, as identified in the report of ownership and lien information, then **either** of the following must be provided:
  - A) Notarized statements consenting to the modification by all persons, other than the applicant, who are named on the ground water registration or identified as landowners in the report of ownership and lien information or who are authorized representatives of an entity to whom the interest in the water right has been conveyed as identified in a water right conveyance agreement; **or**
  - B) Documentation demonstrating that the applicant is authorized to pursue the modification in the absence of consent of the persons named on the ground water registration or the assignee **and** the owner of the lands to which the registration is appurtenant.

I (we) affirm that the applicant is a municipality, as defined in ORS 540.510(3)(b), and that the right is in the name of the municipality or a predecessor. Therefore, pursuant to OAR 690-382-0400(16)(b), the applicant is **NOT** required to provide the above described report of ownership and lien information.

I (we) affirm that the applicant is an entity with the authority to condemn property and is acquiring the property to which the ground water registration proposed for modification is appurtenant by condemnation. Documentation is provided with this application supporting this statement. Therefore, pursuant to OAR 690-382-0400(16)(c), the applicant is **NOT** required to provide the above described report of ownership and lien information. (NOTE: Such an entity may only apply for recognition of a modification under this subsection if it has filed a condemnation action to acquire the property and deposited the funds with the court as required by ORS 35.265.)

- **For both Permit Amendment and Ground Water Registration Modification Applications, I (we) affirm that the information contained in this application is true and accurate.**

 applicant signature	<b>RECEIVED</b>	Patrick J. Griffiths name (print)	7/26/09 date
_____ applicant signature	AUG 05 2009	_____ name (print)	_____ date

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**10. ATTACHMENTS**

*Check each of the following attachments included with this application.  
The application will be returned if all required attachments are not included.*

<p><b>Map:</b></p> <p><input checked="" type="checkbox"/> A map meeting the requirements of OAR 690-380-3100 must be included but need <b>not</b> be prepared by a Certified Water Right Examiner.</p> <p><b>Land Use Information Form:</b></p> <p><input checked="" type="checkbox"/> Enclosed; <i>or</i></p> <p><input type="checkbox"/> Not required if <b>all</b> of the following are met:</p> <ul style="list-style-type: none"><li>❶ In EFU zone or irrigation district;</li><li>❷ Change in place of use only;</li><li>❸ No structural changes needed, including diversion works, delivery facilities, other structures; <i>and</i></li><li>❹ Irrigation only.</li></ul> <p><b>Water Well Reports/Well Logs:</b></p> <p><input checked="" type="checkbox"/> The application involves a change in point of appropriation or change from surface water to ground water and copies of all water well reports are attached.</p> <p><input type="checkbox"/> Water well reports are not available and a description of construction details including well depth, static water level, and information necessary to establish the ground water body developed or proposed to be developed is attached.</p> <p><input type="checkbox"/> N/A. The application does <b>not</b> involve a change in point of appropriation or a change from surface water to ground water, so water well reports are <b>not</b> required.</p>	<p><b>Fees:</b></p> <p><input checked="" type="checkbox"/> Amount enclosed: \$ 4,300.00 See the Department's Fee Schedule at <a href="http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml">www.wrd.state.or.us/OWRD/PUBS/forms.shtml</a> or call (503) 986-0900.</p> <p><b><u>For Permit Amendments Only...</u></b></p> <p><b>Request for Assignment:</b></p> <p><input type="checkbox"/> Enclosed. The applicant is <b>NOT</b> the permit holder of record and needs to be assigned to the permit; <b>OR</b> the landowner of the proposed place of use is <b>NOT</b> the permit holder of record and needs to be assigned to the permit. <i>The Request for Assignment form is available online at: <a href="http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml">www.wrd.state.or.us/OWRD/PUBS/forms.shtml</a> ; <b>or</b></i></p> <p><input checked="" type="checkbox"/> N/A. The applicant is the permit holder of record and owns or controls the proposed place of use; <b>OR</b> the applicant is <b>not</b> the permit holder of record but <b>is</b> supplying an Affidavit of Consent from the permit holder.</p> <p><b>Affidavit of Consent:</b></p> <p><input type="checkbox"/> Enclosed. Because the applicant is <b>NOT</b> the permit holder of record, an Affidavit of Consent is being supplied that gives permission for the applicant to amend the permit; <i>or</i></p> <p><input checked="" type="checkbox"/> N/A. Not required because the applicant is the permit holder of record.</p>
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WATER RESOURCES DEPT  
SALEM, OREGON

Attachment B

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Permits G-4435 & G-8565 and Related Orders

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WATER RESOURCES DEPT  
SALEM, OREGON

T 10941

6. The amount of water which the applicant intends to apply to beneficial use is ..... cubic feet per second or .....1100.... gallons per minute.

7. The use to which the water is to be applied is ..... Quasi-Municipal.....

8. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

Not applicable

9. If the location of the well, or other development work is less than one-fourth mile from a natural stream channel, give the distance to the channel and the difference in elevation between the stream bed and the ground surface at the source of development.

Not applicable

10.

DESCRIPTION OF WORKS

Include length and dimensions of supply ditch or pipeline, size and type of pump and motor, type of irrigation system to adequately describe the proposed distribution system.

Well to be equipped with 100 H.P. submersible pump. A 500,000 gal. steel reservoir is planned. 50 lb. gravity flow by 10" main will supply School Dist. #1 Cascade Junior High School. Approximately 600 residential units will receive pressure service with approximately 750 g.p.m. fire protection capacity.

11. Construction work will begin on or before..... Well complete - System 1/1/79.....

12. Construction work will be completed on or before..... 6/30/79.....

13. The water will be completely applied to the proposed use on or before..... as sales develop.....

14. If the ground water supply is supplemental to an existing supply, identify the supply and existing water right..... Not applicable.....

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WATER RESOURCES DEPT. SALEM, OREGON

G-8695

Permit No. G 8565



Remarks: The entire system will be constructed by contractor, to A.W.W.A. Standards, and turned over to either a private P.U.C. operator or a municipality for operation and management. Pipe dimensions shall be established to engineering supply demands. Generally no main will be less than 6" in diameter.

M.R.S. COMPANY, INC.

Signature of Applicant

By:

*[Handwritten Signature]*

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for.....

In order to retain its priority, this application must be returned to the Water Resources Director with corrections on or before....., 19.....

WITNESS my hand this ..... day of....., 19.....

Water Resources Director

By .....

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WATER RESOURCES DEPT  
SALEM, OREGON

This instrument was first received in the office of the Water Resources Director at Salem, Oregon, on the

27<sup>th</sup> day of December, 19 78, at 8:00 o'clock

A.M.

T 10941

Application No. G-8695

Permit No. G 8565

### Permit to Appropriate the Public Waters of the State of Oregon

This is to certify that I have examined the foregoing application and do hereby grant the same, **SUBJECT TO EXISTING RIGHTS INCLUDING THE EXISTING MINIMUM FLOW POLICIES ESTABLISHED BY THE WATER POLICY REVIEW BOARD** and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 1100 gallons per minute ~~measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from a well.~~ measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from a well.

The use to which this water is to be applied is quasi-municipal.

If for irrigation, this appropriation shall be limited to ..... of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed ..... acre feet per acre for each acre irrigated during the irrigation season of each year;

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.  
The well shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.  
The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.  
The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is ..... December 22, 1978.

Actual construction work shall begin on or before ..... June 20, 1980 ..... and shall

thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1980.

Extended to Oct. 1, 1984 Extended to October 1, 1989, 10-1-96 **EXT. BC 01**  
Complete application of the water to the proposed use shall be made on or before October 1, 1981.

Extended to Oct. 1, 1984 Extended to October 1, 1989, 10-1-96,  
WITNESS my hand this 20th day of June, 1979.

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WATER RESOURCES DEPT  
SALEM, OREGON

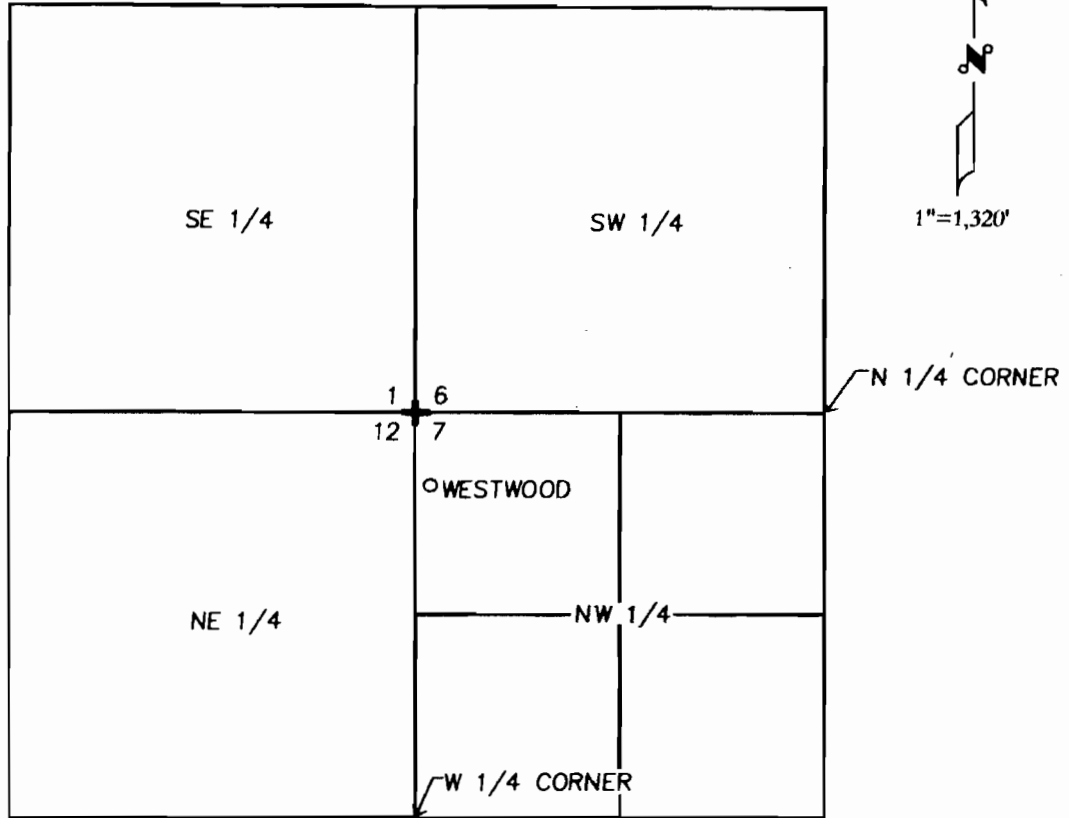
*[Signature]*  
Deputy Water Resources Director

*[Handwritten mark]*

# INCREMENTAL PROOF MAP

THE CITY OF BEND  
 APPLICATION # G-8695  
 PERMIT # G-8565

WESTWOOD WELL  
 NW 1/4 NW 1/4 SECTION 7,  
 TOWNSHIP 18S, RANGE 12E, W.M.



FROM THE NW CORNER OF SECTION 7, WESTWOOD WELL IS 485.52 FEET S 11° 18' 36" E

PLACE OF USE IS WITHIN THE SERVICE AREA OF THE CITY OF BEND.

THE PURPOSE OF THIS MAP IS TO IDENTIFY THE LOCATION OF THE WATER RIGHT. IT IS NOT INTENDED TO PROVIDE INFORMATION RELATIVE TO THE LOCATION OF PROPERTY OWNERSHIP LINES.

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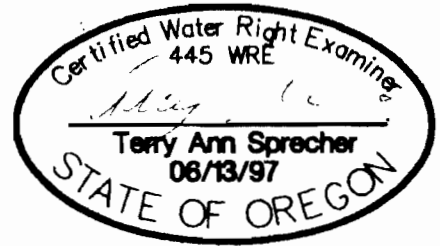
WATER RESOURCES DEPT.  
 SALEM, OREGON

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 SALEM, OREGON



PREPARED FOR: CITY OF BEND

10541.000

INCREMENTAL PROOF MAP  
 WESTWOOD WELL  
 CITY OF BEND



844 NE GREENWOOD AVE.  
 SUITE A  
 BEND, OREGON  
 97701  
 (541) 388-9280  
 FAX  
 (541) 388-8116

AUGUST 2000

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OCT 7 1968  
STATE ENGINEER  
SALEM, OREGON

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NOV 8 1968  
STATE ENGINEER  
SALEM OREGON

Permit No. G-4435

APPLICATION FOR A PERMIT

To Appropriate the Ground Waters of the State of Oregon.

I, City of Bend  
by HAROLD M. PUDDY, CITY MANAGER for the City of Bend 11-7-1968  
(Name of applicant)  
of CITY OF BEND, county of DESCHUTES  
(Postoffice Address)  
state of OREGON, do hereby make application for a permit to appropriate the following described ground waters of the state of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation

Jan. 4, 1905 Bend, Ore.

1. Give name of nearest stream to which the well, tunnel or other source of water development is situated DESCHUTES RIVER  
(Name of stream)

tributary of COLUMBIA RIVER

2. The amount of water which the applicant intends to apply to beneficial use is 2.25 cubic feet per second or 3478 gallons per minute. (See Attached Sheet)

3. The use to which the water is to be applied is MUNICIPAL WATER SUPPLY FOR THE CITY OF BEND

4. The well or other source is located          ft.          and          ft.          from the          corner of WELL #1 is 1.902 ft S. 5° 08' E. of N.W. CORNER SEC. 27 T.18 S., R 11 E.W.M.  
(N. or S.) (E. or W.)  
(Section or subdivision)

WELL #2 is 1.749 ft. S. 20° 29' E. of N.W. CORNER SEC. 27 T.18 S., R 11 E.W.M.  
(If preferable, give distance and bearing to section corner)

Additional wells planned W. 1/2 N.W. 1/4 Sec. 27 & NE 1/4 Sec. 28 T.18 S., R 11 E.W.M. (See attached sheet)  
(If there is more than one well, each must be described. Use separate sheet if necessary)

being within the          of Sec. 27 & 28, Twp. 18 S., R. 11 E., W. M., in the county of Deschutes

5. The Pipe Line          to be 6.8 miles  
(Canal or pipe line)  
in length, terminating in the SW 1/4 SW 1/4 of Sec. 31, Twp. 17 S., R. R. 12 E., W. M., the proposed location being shown throughout on the accompanying map.  
(Smallest legal subdivision)

6. The name of the well or other works is Lava Island Well Field

DESCRIPTION OF WORKS

7. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

Not Applicable

8. The development will consist of 8 Wells          having a diameter of 12 inches and an estimated depth of 285 feet. It is estimated that 275 feet of the well will require 12 inch Steel casing. Depth to water table is estimated 260  
(Feet)

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WATER RESOURCE  
SALEM, OREGON

T-8783/Amund A POU/APOA

G 4435



Item #2 Continued

Water to be appropriated from each well follows:

Well #	<u>C.F.F.</u>	<u>H.P.M.</u>
#1	0.935	420
#2	0.980	440
#3	0.980	440
#4	0.970	435
#5	0.970	435
#6	0.970	435
#7	0.970	435
#8	<u>0.975</u>	<u>438</u>
TOTALS	7.75	3,478

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SALEM, OREGON

## #4. Location of existing wells follows:

Well #1 is 1,902 ft. S. 5° 08' E. of N.W. CORNER SEC. 27 T. 18 S., R. 11 E.W.M.,  
or in the S.W.¼ of the N.W.¼ of SEC. 27, T. 18 S., R. 11 E.W.M.

Well #2 is 1,749 ft. S. 20° 29' E. of N.W. CORNER SEC. 27 T. 18 S., R. 11 E.W.M.  
or in the SW¼ of the NW¼ of SEC. 27, T. 18 S., R. 11 E.W.M.

## Location of Proposed wells follows:

Well #3 is 2,010 ft S. 18° 30' E. of N.W. Corner Sec. 27, T. 18 S., R. 11 E.W.M.,  
or in the S.W.¼ of the N.W.¼ of Sec. 27, T. 18 S., R. 11 E.W.M.

Well #4 is 1,155 ft S. 15° 10' E. of N.W. Corner Sec. 27, T. 18 S., R. 11 E.W.M.,  
or in the N.W.¼ of the N.W.¼ of Sec. 27, T. 18 S., R. 11 E.W.M.

Well #5 is 1,420 ft. S. 8° 00' W. of N.W. Corner Sec. 27, T. 18 S., R. 11 E.W.M.,  
or in the S.E.¼ of the N.E.¼ of Sec. 28, T. 18 S., R. 11 E.W.M.

Well #6 is 675 ft S. 13° 35' E. of N.W. Corner Sec. 27, T. 18 S., R. 11 E.W.M.,  
or in the N.W.¼ of the N.W.¼ of Sec. 27, T. 18 S., R. 11 E.W.M.

Well #7 is 435 ft S. 13° 15' W. of N.W. Corner Sec. 27, T. 18 S., R. 11 E.W.M.,  
or in the N.E.¼ of the N.E.¼ of Sec. 28, T. 18 S., R. 11 E.W.M.

Well #8 is 990 ft S. 27° 40' W. of N.W. Corner Sec. 27, T. 18 S., R. 11 E.W.M.,  
or in the N.E.¼ of the N.E.¼ of Sec. 28, T. 18 S., R. 11 E.W.M.

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SALEM, OREGON

CANAL SYSTEM OR PIPE LINE—

G 4435

9. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(b) At ..... miles from headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(c) Length of pipe, 36,000 ..... ft.; size at intake ..... 16 ..... in.; in size at ..... ft. from intake ..... in.; size at place of use ..... 16 ..... in.; difference in elevation between intake and place of use, ..... 100 ..... ft. Is grade uniform? ..... No ..... Estimated capacity, ..... 7.75 ..... sec. ft.

10. If pumps are to be used, give size and type  $\pm$  500 g.p.m. line shaft turbine depending on well tests.

Give horsepower and type of motor or engine to be used  $\pm$  60 H.P. electric motor depending on well tests.

11. If the location of the well, tunnel, or other development work is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development

Well field area comes within 150 feet of the Deschutes River.  
Ground water source is estimated to be 130 feet below stream bed.

12. Location of area to be irrigated, or place of use ..... City of Bend

Township N. or S.	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
Existing City Limits of Bend is described on attached map.				
T. 18, S., R. 12 E., W.M.		Section 3	- NW $\frac{1}{4}$ NW $\frac{1}{4}$	
		Section 4	- NW $\frac{1}{2}$ SW $\frac{1}{4}$ , NW $\frac{1}{2}$ except SE $\frac{1}{4}$ NW $\frac{1}{4}$	
		Section 5	- SE $\frac{1}{4}$ except SE $\frac{1}{4}$ SE $\frac{1}{4}$	
T. 17 S., R. 12 E., W.M.		Section 27	- SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ , S. $\frac{1}{2}$ N.W. $\frac{1}{4}$ N.W. $\frac{1}{4}$ , W. $\frac{1}{2}$ S.W. $\frac{1}{4}$ S.W. $\frac{1}{4}$	
		Section 28	- S. $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$	
		Section 28 Cont.	W. $\frac{1}{2}$ S.E. $\frac{1}{4}$ S.E. $\frac{1}{4}$ , S. $\frac{1}{2}$ S.W. $\frac{1}{4}$ , N.W. $\frac{1}{4}$ S.W. $\frac{1}{4}$	
		Section 29	- SE $\frac{1}{4}$ NE $\frac{1}{4}$ , S. $\frac{1}{2}$ SW $\frac{1}{4}$ , E. $\frac{1}{2}$ S.E. $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ , E. $\frac{1}{2}$ N.W. $\frac{1}{4}$ SE $\frac{1}{4}$	
		Section 30	- S. $\frac{1}{2}$ SW $\frac{1}{4}$ , S. $\frac{1}{2}$ SE $\frac{1}{4}$	
		Section 31	- NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , E. $\frac{1}{2}$ NW $\frac{1}{4}$ , N. $\frac{1}{2}$ N.E. $\frac{1}{4}$ S.W. $\frac{1}{4}$	
		Section 32	- All	
		Section 33	- All, except E. $\frac{1}{2}$ NE $\frac{1}{4}$ and except NE $\frac{1}{4}$ SE $\frac{1}{4}$	

T. 17 S., R. 11 E., W.M. Section 25 - SE $\frac{1}{4}$  SW $\frac{1}{4}$ , SE $\frac{1}{4}$  except SW $\frac{1}{4}$  SW $\frac{1}{4}$  SE $\frac{1}{4}$   
(If more space required, attach separate sheet)

Character of soil, Sandy  
Kind of crops raised, Lawn irrigation.

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SALEM, OREGON

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MUNICIPAL SUPPLY—

13. To supply the city of Bend  
in Deschutes county, having a present population of 13,200  
and an estimated population of 19,000 in 1990.

ANSWER QUESTIONS 14, 15, 16, 17 AND 18 IN ALL CASES

- 14. Estimated cost of proposed works, \$ 270,440.00
- 15. Construction work will begin on or before 1970
- 16. Construction work will be completed on or before 1975
- 17. The water will be completely applied to the proposed use on or before 1976
- 18. If the ground water supply is supplemental to an existing water supply, identify any application for permit, permit, certificate or adjudicated right to appropriate water, made or held by the applicant 17.13 of water rights held from Tumalo Irrigation District.

*Harold M. Puddy*  
City Engineer

Remarks: The Lava Island Well Field may include eight (8) wells within the following described area for which a permit is requested: W $\frac{1}{2}$  NE $\frac{1}{4}$  Section 27 and the NE $\frac{1}{4}$  Section 28, T. 18 S., R. 11 E., W.M.

Well No.1 was drilled for the City of Bend by R.J. Strasse commencing December 1, 1967. A 16 inch steel casing is installed to 196 feet with grout seal from surface to 39 feet. A 12 inch steel casing is installed inside the 16 inch casing from surface to 310 feet with perforated slots below 228 feet. Static water level is 168 feet. A 48 hour pumping test indicated a capacity of 420 gpm with 60 feet of drawdown.

Well No.2 has an 8-inch steel casing installed to 140 feet with an open hole to 310 feet. Static water level is 138 feet. This well may be reamed for installation of larger casing before test pumping. Additional work dependent on availability of funds.

STATE OF OREGON, }  
County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for Corrections and Completion

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before January 27th, 1969.

WITNESS my hand this 27th day of November, 1968.

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WATER RESOURCES DEPT  
SALEM, OREGON

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DEC 13 1968  
STATE ENGINEER  
SALEM OREGON

CHRIS L. WHEELER  
STATE ENGINEER  
By *Larry W. Tebousek*  
Larry W. Tebousek  
ASSISTANT

STATE OF OREGON,  
County of Marion, } ss.

PERMIT

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 7.75 cubic feet per second measured at the point of diversion from the well

or source of appropriation, or its equivalent in case of rotation with other water users, from eight wells being 0.935 cfs from well No. 1, 0.98 cfs from well No. 2, 0.98 cfs from well No. 3, 0.97 cfs from well No. 4, 0.97 cfs from well No. 5, 0.97 cfs from well No. 6, 0.97 cfs from well No. 7 and 0.975 cfs from well No. 8

The use to which this water is to be applied is municipal

If for irrigation, this appropriation shall be limited to \_\_\_\_\_ of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed \_\_\_\_\_ acre feet per acre for each acre irrigated during the irrigation season of each year;

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is November 8, 1968

Actual construction work shall begin on or before July 17, 1970 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1970

Complete application of the water to the proposed use shall be made on or before October 1, 1971

WITNESS my hand this 17th day of July, 1969

Extended to October 1, 1992

STATE ENGINEER

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WATER REC  
SALEM, OREG

Application No. G-4677  
Permit No. G-4435

PERMIT

TO APPROPRIATE THE GROUND  
WATERS OF THE STATE  
OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 8th day of November 1968, at 1:00 o'clock P. M.

Returned to applicant:

Approved:

July 17, 1969

Recorded in book No. \_\_\_\_\_ of \_\_\_\_\_ Ground Water Permits on page G 4435

CHRIS T. WICKER  
STATE ENGINEER

Drainage Basin No. 5 page 46

3900

Attachment D

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Proposed Place of Use for Permit G-8565

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WATER RESOURCES DEPT  
SALEM, OREGON

T 10941

Municipal Uses				
Township	Range	Meridian	Section	Qtr. Qtr.
17 S	11 E	WM	23	NE SW
17 S	11 E	WM	23	SE SW
17 S	11 E	WM	24	NE NE
17 S	11 E	WM	24	NW NE
17 S	11 E	WM	24	SW NE
17 S	11 E	WM	24	SE NE
17 S	11 E	WM	24	SE NW
17 S	11 E	WM	24	NE SW
17 S	11 E	WM	24	SE SW
17 S	11 E	WM	24	NE SE
17 S	11 E	WM	24	NW SE
17 S	11 E	WM	24	SW SE
17 S	11 E	WM	24	SE SE
17 S	11 E	WM	25	NE NE
17 S	11 E	WM	25	NW NE
17 S	11 E	WM	25	SW NE
17 S	11 E	WM	25	NE NW
17 S	11 E	WM	25	SW NW
17 S	11 E	WM	25	SE NW
17 S	11 E	WM	25	NE SW
17 S	11 E	WM	25	NW SW
17 S	11 E	WM	25	SW SW
17 S	11 E	WM	25	SE SW
17 S	11 E	WM	25	NE SE
17 S	11 E	WM	25	NW SE
17 S	11 E	WM	25	SW SE
17 S	11 E	WM	25	SE SE
17 S	11 E	WM	26	NE NE
17 S	11 E	WM	26	NW NE
17 S	11 E	WM	26	SE NE
17 S	11 E	WM	26	NE NW
17 S	11 E	WM	26	SW NW
17 S	11 E	WM	26	SE NW
17 S	11 E	WM	26	NW SW
17 S	11 E	WM	26	NE SE
17 S	11 E	WM	35	NE SE
17 S	11 E	WM	35	NW SE
17 S	11 E	WM	35	SW SE
17 S	11 E	WM	35	SE SE
17 S	11 E	WM	36	ALL
17 S	12 E	WM	09	SE NE
17 S	12 E	WM	09	NE SW
17 S	12 E	WM	09	NW SW

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17 S	12 E	WM	09	SW SW
17 S	12 E	WM	09	SE SW
17 S	12 E	WM	09	NE SE
17 S	12 E	WM	09	NW SE
17 S	12 E	WM	09	SW SE
17 S	12 E	WM	09	SE SE
17 S	12 E	WM	14	NW NE
17 S	12 E	WM	14	SW NE
17 S	12 E	WM	14	NE NW
17 S	12 E	WM	14	NW NW
17 S	12 E	WM	14	SW NW
17 S	12 E	WM	14	SE NW
17 S	12 E	WM	14	NE SW
17 S	12 E	WM	14	NW SW
17 S	12 E	WM	14	SW SW
17 S	12 E	WM	14	SE SW
17 S	12 E	WM	15	ALL
17 S	12 E	WM	16	ALL
17 S	12 E	WM	17	NE NE
17 S	12 E	WM	17	NW NE
17 S	12 E	WM	17	SE NE
17 S	12 E	WM	17	NE SW
17 S	12 E	WM	17	SW SW
17 S	12 E	WM	17	SE SW
17 S	12 E	WM	17	NE SE
17 S	12 E	WM	17	NW SE
17 S	12 E	WM	17	SW SE
17 S	12 E	WM	17	SE SE
17 S	12 E	WM	18	SE SE
17 S	12 E	WM	19	ALL
17 S	12 E	WM	20	ALL
17 S	12 E	WM	21	ALL
17 S	12 E	WM	22	ALL
17 S	12 E	WM	23	NW NE
17 S	12 E	WM	23	SW NE
17 S	12 E	WM	23	NE NW
17 S	12 E	WM	23	NW NW
17 S	12 E	WM	23	SW NW
17 S	12 E	WM	23	SE NW
17 S	12 E	WM	23	NE SW
17 S	12 E	WM	23	NW SW
17 S	12 E	WM	23	SW SW
17 S	12 E	WM	23	SE SW
17 S	12 E	WM	23	NW SE
17 S	12 E	WM	23	SW SE

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17 S	12 E	WM	26	NW NE
17 S	12 E	WM	26	SW NE
17 S	12 E	WM	26	NE NW
17 S	12 E	WM	26	NW NW
17 S	12 E	WM	26	SW NW
17 S	12 E	WM	26	SE NW
17 S	12 E	WM	26	NE SW
17 S	12 E	WM	26	NW SW
17 S	12 E	WM	26	SW SW
17 S	12 E	WM	26	SE SW
17 S	12 E	WM	26	NW SE
17 S	12 E	WM	26	SW SE
17 S	12 E	WM	27	ALL
17 S	12 E	WM	28	ALL
17 S	12 E	WM	29	ALL
17 S	12 E	WM	30	ALL
17 S	12 E	WM	31	ALL
17 S	12 E	WM	32	ALL
17 S	12 E	WM	33	ALL
17 S	12 E	WM	34	ALL
17 S	12 E	WM	35	NW NE
17 S	12 E	WM	35	SW NE
17 S	12 E	WM	35	NE NW
17 S	12 E	WM	35	NW NW
17 S	12 E	WM	35	SW NW
17 S	12 E	WM	35	SE NW
17 S	12 E	WM	35	NE SW
17 S	12 E	WM	35	NW SW
17 S	12 E	WM	35	SW SW
17 S	12 E	WM	35	SE SW
17 S	12 E	WM	35	NW SE
18 S	11 E	WM	01	ALL
18 S	11 E	WM	02	SE NE
18 S	11 E	WM	02	NE SE
18 S	11 E	WM	02	SE SE
18 S	11 E	WM	11	NE NE
18 S	11 E	WM	11	SE NE
18 S	11 E	WM	11	NE SE
18 S	11 E	WM	11	SE SE
18 S	11 E	WM	12	ALL
18 S	11 E	WM	13	NE NE
18 S	11 E	WM	13	NW NE
18 S	11 E	WM	13	SW NE
18 S	11 E	WM	13	NE NW
18 S	11 E	WM	13	NW NW

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WALCH

18 S	11 E	WM	13	SW NW
18 S	11 E	WM	13	SE NW
18 S	11 E	WM	13	NE SW
18 S	11 E	WM	13	NW SW
18 S	11 E	WM	13	SW SW
18 S	11 E	WM	13	SE SW
18 S	12 E	WM	02	NE NW
18 S	12 E	WM	02	NW NW
18 S	12 E	WM	02	SW NW
18 S	12 E	WM	02	NW SW
18 S	12 E	WM	02	SW SW
18 S	12 E	WM	03	ALL
18 S	12 E	WM	04	ALL
18 S	12 E	WM	05	ALL
18 S	12 E	WM	06	ALL
18 S	12 E	WM	07	NE NE
18 S	12 E	WM	07	NW NE
18 S	12 E	WM	07	SW NE
18 S	12 E	WM	07	NE NW
18 S	12 E	WM	07	NW NW
18 S	12 E	WM	07	SW NW
18 S	12 E	WM	07	SE NW
18 S	12 E	WM	07	NE SW
18 S	12 E	WM	07	NW SW
18 S	12 E	WM	07	SW SW
18 S	12 E	WM	07	SE SW
18 S	12 E	WM	08	NE NE
18 S	12 E	WM	08	NW NE
18 S	12 E	WM	08	SW NE
18 S	12 E	WM	08	SE NE
18 S	12 E	WM	08	NE NW
18 S	12 E	WM	08	NW NW
18 S	12 E	WM	08	NE SE
18 S	12 E	WM	08	NW SE
18 S	12 E	WM	08	SE SE
18 S	12 E	WM	09	ALL
18 S	12 E	WM	10	ALL
18 S	12 E	WM	15	NW NE
18 S	12 E	WM	15	SW NE
18 S	12 E	WM	15	NE NW
18 S	12 E	WM	15	NW NW
18 S	12 E	WM	15	SW NW
18 S	12 E	WM	15	SE NW
18 S	12 E	WM	15	NE SW
18 S	12 E	WM	15	NW SW

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18 S	12 E	WM	16	ALL
18 S	12 E	WM	17	SW NE
18 S	12 E	WM	17	SE NE
18 S	12 E	WM	17	SE NW
18 S	12 E	WM	17	NE SW
18 S	12 E	WM	17	SE SW
18 S	12 E	WM	17	NE SE
18 S	12 E	WM	17	NW SE
18 S	12 E	WM	17	SW SE
18 S	12 E	WM	17	SE SE
18 S	12 E	WM	20	NE NE
18 S	12 E	WM	20	NW NE
18 S	12 E	WM	20	SW NE
18 S	12 E	WM	20	SE NE
18 S	12 E	WM	20	NE NW
18 S	12 E	WM	20	NW NW
18 S	12 E	WM	20	SE NW
18 S	12 E	WM	21	NW NW
18 S	12 E	WM	21	SW NW

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WATER RESOUR.  
M. D. D.