

Application for a Permit to Use Groundwater

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AUG 07 2019
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Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
www.oregon.gov/OWRD

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant

| | | | |
|--|--------------------|-----------------------------------|---------------------------------------|
| NAME CAROL LEE | | PHONE (HM) 310-347-6368 | |
| PHONE (WK) 41 | CELL 11 | FAX | |
| ADDRESS 3705 BALLYNTYNE RD S | | | |
| CITY SALEM | STATE OR | ZIP 97302 | E-MAIL* LEEJA1028@YAHOO.COM |

Organization

| | | | |
|---------|-------|-------|---------|
| NAME | | PHONE | FAX |
| ADDRESS | | | CELL |
| CITY | STATE | ZIP | E-MAIL* |

Agent – The agent is authorized to represent the applicant in all matters relating to this application.

| | | | |
|-----------------------|-------|-------|---------|
| AGENT / BUSINESS NAME | | PHONE | FAX |
| ADDRESS | | | CELL |
| CITY | STATE | ZIP | E-MAIL* |


Note: Attach multiple copies as needed

* By providing an e-mail address, consent is given to receive all correspondence from the Department electronically. (Paper copies of the proposed and final order documents will also be mailed.)

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.

 **I (we) affirm that the information contained in this application is true and accurate.**

| | | |
|---|---|---------------------|
|  | CAROL LEE, OWNER | JULY 3, 2019 |
| Applicant Signature | Print Name and Title if applicable | Date |
| _____ Applicant Signature | _____ Print Name and Title if applicable | _____ Date |

SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

- YES, there are no encumbrances.
- YES, the land is encumbered by easements, rights of way, roads or other encumbrances.
- NO, I have a recorded easement or written authorization permitting access.
- NO, I do not currently have written authorization or easement permitting access.
- NO, written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
- NO, because water is to be diverted, conveyed, and/or used only on federal lands.

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Affected Landowners: List the names and mailing addresses of all owners of any lands that are not owned by the applicant and that are crossed by the proposed ditch, canal or other work, even if the applicant has obtained written authorization or an easement from the owner. *(Attach additional sheets if necessary).*

Legal Description: You must provide the legal description of: 1. The property from which the water is to be diverted, 2. Any property crossed by the proposed ditch, canal or other work, and 3. Any property on which the water is to be used as depicted on the map.

SECTION 3: WELL DEVELOPMENT

| WELL NO. | NAME OF NEAREST SURFACE WATER | IF LESS THAN 1 MILE: | |
|----------|-------------------------------|-----------------------------------|--|
| | | DISTANCE TO NEAREST SURFACE WATER | ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD |
| WELL 1 | Pett: Sohn | Pett: Sohn 2400 + | |
| WELL 2 | Pett: Sohn | Pett: Sohn 2400 + | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials *(attach additional sheets if necessary).*

SECTION 3: WELL DEVELOPMENT, continued

Total maximum rate requested: ~~5~~ 42 gpm (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

The table below must be completed for each source to be evaluated or the application will be returned. If this is an existing well, the information may be found on the applicable well log. (*If a well log is available, please submit it in addition to completing the table.*) If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner to obtain the necessary information.

| OWNER'S WELL NAME OR NO. | PROPOSED | EXISTING | WELL ID (WELL TAG) NO.* OR WELL LOG ID** | FLOWING ARTESIAN | CASING DIAMETER | CASING INTERVALS (IN FEET) | PERFORATED OR SCREENED INTERVALS (IN FEET) | SEAL INTERVALS (IN FEET) | MOST RECENT STATIC WATER LEVEL & DATE (IN FEET) | PROPOSED USE | | | |
|--------------------------|--------------------------|-------------------------------------|--|--------------------------|-----------------|----------------------------|--|--------------------------|---|-------------------|------------------|--------------------------|---------------------------|
| | | | | | | | | | | SOURCE AQUIFER*** | TOTAL WELL DEPTH | WELL-SPECIFIC RATE (GPM) | ANNUAL VOLUME (ACRE-FEET) |
| Well 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Mari 14751 | <input type="checkbox"/> | 6 | +1-49 | | | | | 453 | 18 gpm | |
| Well 2 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Mari 14754 | <input type="checkbox"/> | 6 | +1-46 | | | | | 440 | 24 gpm | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | | | | | | | |

* Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.
 ** A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.
 *** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

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For Department Use: App. Number: G-18854

SECTION 4: SENSITIVE, THREATENED OR ENDANGERED FISH SPECIES PUBLIC INTEREST INFORMATION

This information must be provided for your application to be accepted as complete. The Water Resources Department will determine whether the proposed use will impair or be detrimental to the public interest with regard to sensitive, threatened or endangered fish species if your proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters.

To answer the following questions, use the map provided in Attachment 3 or the link below to determine whether the proposed point of appropriation (POA) is located in an area where the Upper Columbia, the Lower Columbia, and/or the Statewide public interest rules apply.

For more detailed information, click on the following link and enter the TRSQQ or the Lat/Long of a POA and click on "Submit" to retrieve a report that will show which section, if any, of the rules apply:

https://apps.wrd.state.or.us/apps/misc/lkp_trsqq_features/

If you need help to determine in which area the proposed POA is located, please call the customer service desk at (503) 986-0801.

Upper Columbia - OAR 690-033-0115 thru -0130

Is the well or proposed well located in an area where the Upper Columbia Rules apply?

Yes No

If yes, you are notified that the Water Resources Department will consult with numerous federal, state, local and tribal governmental entities so it may determine whether the proposed use is consistent with the "Columbia River Basin Fish and Wildlife Program" adopted by the Northwest Power Planning Council in 1994 for the protection and recovery of listed fish species. The application may be denied, heavily conditioned, or if appropriate, mitigation for impacts may be needed to obtain approval for the proposed use.

If yes, and if the Department determines that proposed groundwater use has the potential for substantial interference with nearby surface waters:

- I understand that the permit, if issued, will not allow use during the time period April 15 to September 30, except as provided in OAR 690-033-0140.
- I understand that the Department of Environmental Quality will review my application to determine if the proposed use complies with existing state and federal water quality standards.
- I understand that I will install and maintain water use measurement and recording devices as required by the Water Resources Department, and comply with recording and reporting permit condition requirements.

Lower Columbia - OAR 690-033-0220 thru -0230

Is the well or proposed well located in an area where the Lower Columbia rules apply?

Yes No

If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine, by reviewing recovery plans, the Columbia River Basin Fish and Wildlife Program, and regional restoration programs applicable to threatened or endangered fish species, in coordination with state and federal agencies, as

appropriate, whether the proposed use is detrimental to the protection or recovery of a threatened or endangered fish species and whether the use can be conditioned or mitigated to avoid the detriment.

If a permit is issued, it will likely contain conditions to ensure the water use complies with existing state and federal water quality standards; and water use measurement, recording and reporting required by the Water Resources Department. The application may be denied, or if appropriate, mitigation for impacts may be needed to obtain approval of the proposed use.

If yes, you will be required to provide the following information, if applicable.

Yes No The proposed use is for more than **one** cubic foot per second (448.8 gpm) and is not subject to the requirements of OAR 690, Division 86 (Water Management and Conservation Plans).

If yes, provide a description of the measures to be taken to assure reasonably efficient water use:

Statewide - OAR 690-033-0330 thru -0340

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Is the well or proposed well located in an area where the Statewide rules apply?

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Yes No

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If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine whether the proposed use will occur in an area where endangered, threatened or sensitive fish species are located. If so, the Water Resources Department, Department of Fish and Wildlife, Department of Environmental Quality, and the Department of Agriculture will recommend conditions required to achieve “no loss of essential habitat of threatened and endangered (T&E) fish species,” or “no net loss of essential habitat of sensitive (S) fish species.” If conditions cannot be identified that meet the standards of no loss of essential T E fish habitat or no net loss of essential S fish habitat, the agencies will recommend denial of the application unless they conclude that the proposed use would not harm the species.

SECTION 5: WATER USE

| USE | PERIOD OF USE | ANNUAL VOLUME (ACRE-FEET) |
|------------|----------------------------|---------------------------|
| Irrigation | March 1 through October 31 | 8.4 AF |
| | | |
| | | |

For irrigation use only:

Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: 84 Acres Supplemental: NA Acres

If you listed supplemental acres, list the Permit or Certificate number of the underlying primary water right(s):

NA

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: 8.4 AF

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: NA (**Exempt Uses:** Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.)

- If the use is **mining**, describe what is being mined and the method(s) of extraction (*attach additional sheets if necessary*): NA

SECTION 6: WATER MANAGEMENT

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A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

- Pump (give horsepower and type): 5HP SUBMERSIBLE
 Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. pipe to garden lawn beds drip irrigation when possible

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler) (*attach additional sheets if necessary*)

Rainbird, Rumbold drip

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters (*attach additional sheets if necessary*).

Meter wells drip when possible

SECTION 7: PROJECT SCHEDULE

- Date construction will begin: Within five years of permit issuance
- Date construction will be completed: Within five years of permit issuance
- Date beneficial water use will begin: Within five years of permit issuance

SECTION 8: RESOURCE PROTECTION

In granting permission to use water the state encourages, and in some instances requires, careful control of activities that may affect adjacent waterway or streamside area. See instruction guide for a list of possible permit requirements from other agencies. Please indicate any of the practices you plan to undertake to protect water resources.

- Water quality will be protected by preventing erosion and run-off of waste or chemical products.
Describe: Drip or equally efficient

- Excavation or clearing of banks will be kept to a minimum to protect riparian or streamside areas.
Note: If disturbed area is greater than one acre, applicant should contact the Oregon Department of Environmental Quality to determine if a 1200C permit is required.
Describe planned actions and additional permits required for project implementation: NA

- Other state and federal permits or contracts required and to be obtained, if a water right permit is granted:
List: NA

SECTION 9: WITHIN A DISTRICT

Check here if the point of appropriation (POA) or place of use (POU) are located within or served by an irrigation or other water district.

| | | |
|--------------------------------|---------|-----|
| Irrigation District Name NA | Address | |
| City | State | Zip |

SECTION 10: REMARKS

Use this space to clarify any information you have provided in the application (*attach additional sheets if necessary*).

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Land Use Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
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NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

This form is NOT required if:

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or groundwater registration modification, and all of the following apply:
 - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
 - b) The application involves a change in place of use only;
 - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; and
 - d) The application involves irrigation water uses only.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land use form and return it to the WRD. If no land use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

Land Use Information Form



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

Applicant

| | | | |
|---------------------------------|-------------|----------------------------|--------------------------------|
| NAME Carol Lee | | PHONE (HM) 310-347-6368 | |
| PHONE (WK) 310-347-6368 | CELL 4 | FAX | |
| ADDRESS 3705 BALLYNTYWE RD S | | | |
| CITY SALISBURY | STATE OR | ZIP 97302 | E-MAIL* Leeja1028@yahoo.com |

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

| Township | Range | Section | ¼ ¼ | Tax Lot # | Plan Designation (e.g., Rural Residential/RR-5) | Water to be: | | | Proposed Land Use: |
|----------|-------|---------|-------|-----------|---|--|--|--|--------------------|
| 8 S | 3 W | 18 | NE NW | 500 | | <input checked="" type="checkbox"/> Diverted | <input checked="" type="checkbox"/> Conveyed | <input checked="" type="checkbox"/> Used | |
| | | | | | | <input type="checkbox"/> Diverted | <input type="checkbox"/> Conveyed | <input type="checkbox"/> Used | |
| | | | | | | <input type="checkbox"/> Diverted | <input type="checkbox"/> Conveyed | <input type="checkbox"/> Used | |
| | | | | | | <input type="checkbox"/> Diverted | <input type="checkbox"/> Conveyed | <input type="checkbox"/> Used | |

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Marion

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B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water
 Water Right Transfer
 Permit Amendment or Groundwater Registration Modification
 Limited Water Use License
 Allocation of Conserved Water
 Exchange of Water

Source of water: Reservoir/Pond Groundwater Surface Water (name) _____

Estimated quantity of water needed: _____ cubic feet per second gallons per minute acre-feet

Intended use of water: Irrigation Commercial Industrial Domestic for _____ household(s)
 Municipal Quasi-Municipal Instream Other _____

Briefly describe:

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

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For Local Government Use Only

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The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): MCC 17.137
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below. (Please attach documentation of applicable land use approvals which have already been obtained. Record of Action/land use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

| Type of Land Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.) | Cite Most Significant, Applicable Plan Policies & Ordinance Section References | Land Use Approval: | |
|--|---|--|--|
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |
| | | <input type="checkbox"/> Obtained <input type="checkbox"/> Denied | <input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued |

Local governments are invited to express special land use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

| | | | |
|---|-------------------------------|------------------------------------|--|
| NAME <i>Patty Dorr</i> | | TITLE: <i>Assistant Planner</i> | |
| SIGNATURE <i>Patty Dorr</i> | PHONE: <i>503-588-5038</i> | DATE: <i>7/2/19</i> | |
| GOVERNMENT ENTITY <i>Marion County</i> | | | |

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information



Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

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EXHIBIT "A"

206531AM

Tract I:

The Southwest quarter of the Northeast quarter of the Northwest quarter of Section 18, Township 8 South, Range 3 West of the Willamette Meridian in Marion County, Oregon. Save and Except the Easterly 20 feet thereof.

Tract II:

Beginning at the Northwest corner of Parcel II of that certain tract of land conveyed to Steven J. Mattison and Barbara A. Mattison by deed recorded in Reel 1165, Page 298 of the Deed Records for Marion County, Oregon, which Northwest corner is 20.00 feet North 89°53'21" West of the Northwest corner of the Southeast quarter of the northeast quarter of the Northwest quarter of Section 18 in Township 8 South, Range 3 West of the Willamette Meridian, Marion County, Oregon, and running thence South 00°00'03" East along the West line of said Mattison tract, a distance of 659.07 feet to the South line of Southwest quarter of the Northeast quarter of the Northwest quarter of said Section 18; thence South 89°54'46" East along said South line, a distance of 20.00 feet to the Southwest corner of the Southeast quarter of the Northeast quarter of the Northwest quarter of said Section 18; thence North 00°00'03" West along the West line of the Southeast quarter of the Northeast quarter of the Northwest quarter of said Section 18, a distance of 39.44 feet; thence North 00°44'46" West, a distance of 619.69 feet to the North line of the Southwest quarter of the Northeast quarter of the Northwest quarter of said Section 18; thence North 89°53'21" West along said North line, a distance of 11.94 feet to the point of beginning.

Also: The Easterly 20 feet of even width of the following: The Southwest 1/4 of the Northeast 1/4 of the Northwest 1/4 of Section 18, Township 8 South, Range 3 West, Willamette Meridian, Marion County, Oregon.

Well 2

85/36/18 ba

STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

Agri 14754

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(START CARD) # 20580

(1) OWNER:

Name RICHARD E. MORROW Address P.O. Box 3306 City Salem State Oregon Zip

LOCATION OF WELL by legal description:

County Marion Township 8 South Range 3 West Section 18 NE 1/4 NW 1/4 Street Address of Well (or nearest address) 3705 Ballantyne Road South Salem, Oregon

(2) TYPE OF WORK:

XX New Well Recondition Abandon

(3) DRILL METHOD

XX Rotary Air Rotary Mud Cable Other

(4) PROPOSED USE:

XX Domestic Community Industrial Irrigation Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 331 ft. Explosives used Type Amount

Table with columns: HOLE Diameter, SEAL Material, Amount sacks or pounds. Includes data for 10" and 6" diameters.

How was seal placed: Method A B XC D E

Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Includes data for 6" casing and 4" liner.

Final location of shoe(s) 46 Ft

(7) PERFORATIONS/SCREENS:

XX Perforations Method Electric Saw Screens Type Material

Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes data for 251' to 331' perforations.

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

Table with columns: Pump/Bailer/Air/Artesian, Yield gal/min, Drawdown, Drill stem at, Time. Includes test results at 55, 82, and 82 feet.

Temperature of water Depth Artesian Flow Found Was a water analysis done? Did any strata contain water not suitable for intended use?

(10) STATIC WATER LEVEL:

190 ft. below land surface. Date 8-30-90 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Table with columns: From, To, Estimated Flow Rate, SWL. Includes data for 298 Ft to 438 Ft zone.

(12) WELL LOG:

Table with columns: Material, From, To, SWL. Includes detailed log of soil, clays, and basalts.

Date started 8-25-90 Completed 8-30-90

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards.

Signed WWC Number Date

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above.

Signed D. Manders WWC Number 1325 Date 8-31-90

6-18854

STATE OF OREGON
WATER WELL REPORT
 (as required by ORS 537.765)

(START CARD) # 20572

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 Man
 1751

85/3w/18 ba

(1) OWNER:

Name: RICHARD E. MORROW
 Address: P.O. Box 3306
 City: Salem State Oregon Zip: 97302

(9) LOCATION OF WELL by legal description:

County: Marion Latitude: Longitude:
 Township: 8 South N or S, Range: 3 West E or W, WM.
 Section: 18 NE 1/4 NW 1/4
 Tax Lot: Lot: Block: Subdivision:
 Street Address of Well (or nearest address):
 3705 Ballantyne Road South Salem, Oregon

(2) TYPE OF WORK:

New Well Deepen Recondition Abandon

(3) DRILL METHOD

Rotary Air Rotary Mud Cable
 Other

(4) PROPOSED USE:

Domestic Community Industrial Irrigation
 Thermal Injection Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 453 ft.
 Explosives used Type: Amount:

| HOLE | | SEAL | | Amount sacks or pounds |
|----------|----------|----------|---------|---------------------------|
| Diameter | From To | Material | From To | |
| 10" | 0' 49' | Cement | 0' 49' | 21 |
| 6" | 49' 453' | | | |

How was seal placed: Method A B C D E

Other

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

| Casing: | Diameter | From | To | Gauge | Steel | Plastic | Welded | Threaded |
|---------|----------|------|------|--------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 6" | +1 | 49' | .240 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Liner: | 4" | 0' | 453' | PVC | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | | SDR 26 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Final location of shoe(s) 49 Feet

(7) PERFORATIONS/SCREENS:

Perforations Method: Electric
 Screens Type: Material:

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing | Liner |
|------|------|-----------|--------|----------|----------------|--------------------------|-------------------------------------|
| 370' | 450' | | 170 | 1/8x | 5 Inch | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

Pump Bailer Air Flowing Artesian

| Yield gal/min | Drawdown | Drill stem at | Time |
|---------------|----------|---------------|-------|
| 18 | | 450 Ft | 1 hr. |

Air Test GPM May Fluctuate.

Temperature of water _____ Depth Artesian Flow Found _____

Was a water analysis done? Yes By whom _____

Did any strata contain water not suitable for intended use? Too little

Salty Muddy Odor Colored Other _____

Depth of strata: _____

(10) STATIC WATER LEVEL:

155 ft. below land surface. Date 8-2-90
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 315 Feet

| From | To | Estimated Flow Rate | SWL |
|--------|--------|---------------------|------|
| 315 Ft | 449 Ft | 18 GPM | 155' |

(12) WELL LOG:

| Material | From | To | SWL |
|---------------------------------|------|-----|------|
| Soil | 0 | 1 | |
| Brown Clay | 1 | 9 | |
| Reddish Brown Clay | 9 | 19 | |
| Decomposed Rock Multi-Colored | 19 | 31 | |
| Weathered Basalt | 31 | 38 | |
| Black Basalt | 38 | 52 | |
| Badly Weathered Basalt, With | | | |
| Multi-Colored Claystones | 52 | 71 | |
| Weathered Basalt | 71 | 84 | |
| Gray Basalt | 84 | 166 | |
| Badly Weathered Vesicular | | | |
| Basalt, Broken, Caving | 166 | 191 | |
| Gray Basalt | 191 | 305 | |
| Weathered Basalt, With Multi- | | | |
| Colored Clays & Claystones | 305 | 332 | |
| Black Basalt | 332 | 376 | |
| Weathered Basalt | 376 | 434 | |
| Black Basalt & Gray Claystones | 434 | 449 | |
| Gray Clay Soft | 449 | 453 | 155' |
| 5% Bentonite Used To Seal Well. | | | |

Date started 7-31-90 Completed 8-5-90

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed _____ Date _____ WWC Number _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed J.D. Mowder Date 8-14-90 WWC Number 1325

G-18854