### Application for a Permit to Use

### Groundwater

For Department Use: App. Number:



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 PARTIES AND POUCLAS                                                                                   | PHONE (HM)<br>541-943-3280 |                          |                                                 |                                   |
| COLAHAN ENTERPRISES, INC./ ERIN DOUGLAS                                                                    | FAX                        |                          |                                                 |                                   |
| PHONE (WK)                                                                                                 |                            |                          |                                                 |                                   |
| ADDRESS 45190 HWY 31                                                                                       |                            | <u> </u>                 | <b>37</b>                                       |                                   |
| CITY S                                                                                                     | TATE                       | ZIP                      | E-MAIL*                                         |                                   |
| PAISLEY                                                                                                    | )R                         | 97636                    | lizzymongo@hotm                                 | nail.com                          |
| Organization                                                                                               |                            |                          |                                                 |                                   |
| NAME                                                                                                       |                            |                          | PHONE                                           | FAX                               |
| COLAHAN ENTERPRISES, INC. /ERIN DOUGLAS                                                                    |                            | <del></del>              | 541-943-3280                                    | CELL                              |
| ADDRESS                                                                                                    |                            |                          |                                                 | 541-410-4968                      |
| 45190 Hwy 31                                                                                               | ТАТЕ                       | ZIP                      | E-MAIL*                                         |                                   |
| 10111                                                                                                      | )R                         | 97636                    | lizzymongo@hotm                                 | nail.com                          |
|                                                                                                            |                            |                          |                                                 | 11:-41                            |
| Agent - The agent is authorized to represent the                                                           | applic                     | ant in all m             | atters relating to this ap                      | FAX                               |
| AGENT / BUSINESS NAME                                                                                      | C                          |                          | PHONE<br>(360) 907-4162                         | FAX                               |
| Jim Newton/Cascade Geoengineering, LLC                                                                     | <u></u>                    |                          | 1 (300) 301-1102                                | CELL                              |
| ADDRESS 21145 SCOTTSDALE DRIVE                                                                             |                            |                          |                                                 |                                   |
|                                                                                                            | STATE                      | ZIP                      | E-MAIL*                                         |                                   |
|                                                                                                            | OR                         | 97701                    | NEWTONJIM@HOTMAIL                               | L.COM                             |
| Note: Attach multiple copies as needed                                                                     |                            |                          | 5 C 41 . T                                      | Danet destroyies ly (Deper        |
| * By providing an e-mail address, consent is give                                                          | n to re                    | ceive all co             | orrespondence from the I                        | Department electronically. (Faper |
| copies of the proposed and final order documents                                                           | wiii a                     | iso de man               | eu.)                                            | RECEIVED                          |
| By my signature below I confirm that I un                                                                  | derst                      | and:                     |                                                 | NOV <b>2 3</b> 2020               |
| I am asking to use water specifically as                                                                   | describ                    | ed in this a             | pplication.                                     | 1404 20 2020                      |
| <ul> <li>Evaluation of this application will be ba</li> </ul>                                              | sed on                     | informatio               | n provided in the applica                       | ation. OWRD                       |
| Leannot use water legally until the Water                                                                  | er Reso                    | urces Depa               | artment issues a permit.                        | OWND                              |
| <ul> <li>Oregon law requires that a permit be iss</li> </ul>                                               | ued bei                    | fore beginn              | ing construction of any                         | proposed well, unless the use is  |
| exempt. Acceptance of this application                                                                     | does no                    | ot guarante              | e a permit will be issued.                      | •                                 |
| <ul> <li>If I get a permit, I must not waste water.</li> </ul>                                             |                            | 1 .                      |                                                 | mit on he cancelled               |
| If development of the water use is not as                                                                  | ccordin                    | ig to the ter            | ms of the pennit, the per                       | mint can be cancened.             |
| <ul> <li>The water use must be compatible with</li> <li>Even if the Department issues a permit,</li> </ul> | local c                    | omprenens<br>bovo to sto | ive ianu-use pians.<br>nucina water to allow se | enior water-right holders to get  |
| • Even if the Department issues a perint, water to which they are entitled.                                | 1 may                      | Have to sto              | h right water to allow or                       | and water name of                 |
| water to which they are chuicu.                                                                            |                            |                          |                                                 |                                   |
| I (we) affirm that the information co                                                                      | ntaine                     | ed in this               | application is true an                          | nd accurate.                      |
| 11/2/1                                                                                                     |                            |                          | and love                                        | 4.29-2020                         |
| flew Assigned                                                                                              | DIRI                       | Name and                 | Title if applicable                             | Date                              |
| Applicant Signature                                                                                        | rint                       | 149HIG SHO               | title it applicable                             | ~ 54 5 W                          |
|                                                                                                            |                            |                          | mid 10                                          | Data                              |
| Applicant Signature                                                                                        | Print                      | Name and                 | Title if applicable                             | Date                              |

### **SECTION 2: PROPERTY OWNERSHIP**

| 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 land state-owned submersible lands, and this application is for irrigation and/or domestic use NO, because water is to be diverted, conveyed, and/or used only on federal lands. | ds I do not own are<br>only (ORS 274.040) |
| Affected Landowners: List the names and mailing addresses of all owners of any lands tha                                                                                                                                                                                                                                                                                                                                            | t are not owned by                        |

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

**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.

Lake County Tax Map T33S, R18E, WM, Tax Lots 203, 801, 802, and 1300

### **SECTION 3: WELL DEVELOPMENT**

|                    |                                  | IF LESS                              | THAN I MILE:                                |
|--------------------|----------------------------------|--------------------------------------|---------------------------------------------|
| WELL NO.           | NAME OF NEAREST<br>SURFACE WATER | DISTANCE TO NEAREST<br>SURFACE WATER | BETWEEN NEAREST SURFACE WATER AND WELL HEAD |
| Well I             | Chewaucan River                  | 1,700 FT                             | 80 FT                                       |
| SVE-I              | Chewaucan River                  | 1,900 FT                             | 70 FT                                       |
| SVE-2              | Chewaucan River                  | 800 FT                               | 70 FT                                       |
| LITTLE<br>HOT WELL | Chewaucan River                  | 800 FT                               | 70 FT                                       |

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).

See Attached Well Logs

RECEIVED

NOV 23 2020

**OWRD** 

#### **SECTION 3: WELL DEVELOPMENT, continued**

Total maximum rate requested: 745 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.

|                                   |          |             |                                          |         |                    |                                  |                                            |                                |                                                          | PRO                         | POSED (                | JSE                                |                                 |
|-----------------------------------|----------|-------------|------------------------------------------|---------|--------------------|----------------------------------|--------------------------------------------|--------------------------------|----------------------------------------------------------|-----------------------------|------------------------|------------------------------------|---------------------------------|
| OWNER'S<br>WELL<br>NAME OR<br>NO. | PROPOSED | EXISTING    | WELL ID (WELL TAG) NO.* OR WELL LOG ID** | FLOWING | CASING<br>DIAMETER | CASING<br>INTERVALS<br>(IN FEET) | PERFORATED OR SCREENED INTERVALS (IN FEET) | SEAL<br>INTERVALS<br>(IN FEET) | MOST RECENT<br>STATIC WATER<br>LEVEL & DATE<br>(IN FEET) | SOURCE AQUIFER***           | TOTAL<br>WELL<br>DEPTH | WELL-<br>SPECIFIC<br>RATE<br>(GPM) | ANNUAL<br>VOLUME<br>(ACRE-FEET) |
| WELL I                            |          |             | LAKE1627                                 |         | 16"                | 0-22                             | N/A                                        | 0-21                           | 122                                                      |                             | 983                    |                                    |                                 |
| WELL I                            |          | $\boxtimes$ | LAKE4448                                 |         | 8"                 | LINER<br>INSTALLED<br>O TO 770   | 476 – 545;<br>570 758                      | SAME                           | 145                                                      |                             | 983                    |                                    |                                 |
| SVE-1                             |          | $\boxtimes$ | LAKE52530                                |         | 13 3/8"            | 0-900                            | not reported                               | 0-900                          | not reported                                             |                             | 1,360                  |                                    |                                 |
| SVE-2                             |          | $\boxtimes$ | LAKE 52529                               |         | 13 3/8"            | 0-495                            | not reported                               | 0-495                          | not reported                                             |                             | 1,260                  |                                    |                                 |
| Little<br>Hot<br>Well             |          | $\boxtimes$ | LAKE1628                                 |         | 16"                | 0-270                            | 100-240                                    | 0-22                           | 83                                                       |                             | 315                    |                                    |                                 |
| Little<br>Hot<br>Well             |          | $\boxtimes$ | LAKE 1626                                |         | 8"                 | +2-300                           | N/A                                        | SAME                           | 120                                                      | RECEIVED                    | 432                    |                                    |                                 |
| Little<br>Hot<br>Well             |          | $\boxtimes$ | LAKE52582                                |         | UNCE               | łanged                           | N/A                                        | 0-23                           | not reported                                             | NOV 2 3 2020<br>OWRD        | 432                    |                                    |                                 |
|                                   |          |             |                                          |         |                    |                                  |                                            |                                |                                                          | or nearly altered wells. In |                        | <u> </u>                           |                                 |

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.

<sup>\*</sup>This rate is intended to be supplemental to the existing authorized rate of 1,755 gpm.

<sup>\*\*</sup> 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.

<sup>\*\*\*</sup> Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

# 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 <u>Attachment 3</u> 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.

### <u>Upper Columbia - OAR 690-033-0115 thru -0130</u>

RECEIVED

NOV 23 2020

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

☐ Yes ⊠ No

**OWRD** 

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

|                     |              | Groundw | ater — Page 4 |
|---------------------|--------------|---------|---------------|
| m - D I Jean        | Ann Number   |         | Rev. 08-18    |
| For Department Use: | App. Number. |         |               |

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: RECEIVED Statewide - OAR 690-033-0330 thru -0340 NOV 23 2020 Is the well or proposed well located in an area where the Statewide rules apply? OWRD 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** ANNUAL VOLUME (ACRE-FEET) PERIOD OF USE USE Irrigation Season Supplemental Irrigation For irrigation use only: Please indicate the number of primary and supplemental acres to be irrigated (must match map). Supplemental: 317.4 Acres Primary: \_\_\_\_Acres If you listed supplemental acres, list the Permit or Certificate number of the underlying primary water right(s): Certificates 82231, 81169, 64777, 64776, and 82232 Indicate the maximum total number of acre-feet you expect to use in an irrigation season:  $\underline{0}$ If the use is municipal or quasi-municipal, attach Form M If the use is domestic, indicate the number of households: \_\_\_\_ (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): \_\_\_\_

For Department Use: App. Number: \_\_\_\_

appropriate, whether the proposed use is detrimental to the protection or recovery of a threatened or endangered

### **SECTION 6: WATER MANAGEMENT**

RECEIVED

| G.E.                      |                                                                                                                                                                                                                                                                                                                                                                                                               | NOV <b>23</b> 2020                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Α.                        | Diversion and Conveyance What equipment will you use to pump water from your well(s)?                                                                                                                                                                                                                                                                                                                         | OWRD                                                       |
| <u>a 20</u><br><u>equ</u> | Pump (give horsepower and type): Well #1 equipped with 100 Hp line-shaft to 00 Hp lineshaft turbine; SVE-2 equipped with a 300 Hp line-shaft turbine; Little Hopped with a 50 Hp submersible pump.  Other means (describe):                                                                                                                                                                                   | <u>irbine; SVE-1 equipped with</u> ot Well estimated to be |
|                           | Provide a description of the proposed means of diversion, construction, and opera and conveyance of water.  Application of water will be conducted with existing wells, pumps and irrigation                                                                                                                                                                                                                  |                                                            |
| В.                        | Application Method What equipment and method of application will be used? (e.g., drip, wheel line, he (attach additional sheets if necessary) All irrigation is applied using sprinkler and center pivots.                                                                                                                                                                                                    | igh-pressure sprinkler)                                    |
| C.                        | Conservation Please describe why the amount of water requested is needed and measures you processed the amount of water diverted; prevent damage to aquatic life and riparian discharge of contaminated water to a surface stream; prevent adverse impact to prove waters (attach additional sheets if necessary).                                                                                            | n napitat; prevent the                                     |
|                           | The requested supplemental rate of water is intended to authorize the permit hold to grounds that under typical 1/80 cfs per acre flow rates would be inadequate to while also reduce salts building in the soils as a result of elevated temperatures of is imperative to promote agronomic application of water in excessively drained so returns to the groundwater system rapidly based on soil drainage. | f groundwater. Conservation                                |
| SE                        | ECTION 7: PROJECT SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |
|                           | <ul> <li>a) Date construction will begin: <u>Already Begun</u></li> <li>b) Date construction will be completed: <u>October 2020</u></li> <li>c) Date beneficial water use will begin: <u>Irrigation Season 2021</u></li> </ul>                                                                                                                                                                                |                                                            |
| SE                        | ECTION 8: RESOURCE PROTECTION                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |
| act<br>req                | granting permission to use water the state encourages, and in some instances requitivities that may affect adjacent waterway or streamside area. See instruction guide quirements from other agencies. Please indicate any of the practices you plan to unscources.                                                                                                                                           | IOL # 112f of hossing bering                               |
|                           | Water quality will be protected by preventing erosion and run-off of waste or che Describe: N/A                                                                                                                                                                                                                                                                                                               | mical products.                                            |
|                           | Excavation or clearing of banks will be kept to a minimum to protect riparian or <b>Note:</b> If disturbed area is greater than one acre, applicant should contact the Oregen Environmental Quality to determine if a 1200C permit is required.  Describe planned actions and additional permits required for project implementation.                                                                         | gon Department of                                          |

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

Groundwater — Page 6 Rev. 08-18

For Department Use: App. Number: \_\_\_\_\_

List: : <u>N/A</u>

| SECTION 9: WITHIN A DISTRICT                                                | P                                 |                                  |
|-----------------------------------------------------------------------------|-----------------------------------|----------------------------------|
| Check here if the point of appropriatio irrigation or other water district. | n (POA) or place of use (POU) are | e located within or served by an |
| Irrigation District Name                                                    | Address                           |                                  |
| N/A<br>City                                                                 | State                             | Zip                              |
|                                                                             |                                   |                                  |

#### **SECTION 10: REMARKS**

For Department Use: App. Number: \_

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

Soil types underlying the proposed POU for Supplemental Irrigation are classified by the USDA Natural Resources Conservation Service (NRCS) as Well-Drained (65B – Deter loam) and Somewhat Excessively Drained (153A – McConnel very gravelly sandy loam). Figure 2, attached, provides the NRCS soil survey map information overlain onto the proposed irrigated area, clearly showing that soil type 153A is the predominant underlying soil type.

The NRCS detailed description for soil type 153A is attached. Per this description:

- Major Management Factors include "... available water capacity, permeability, seepage, ..."

- Under Livestock Grazing: "The risk of seepage and the very rapid permeability of the lower part of the soil limit the construction of livestock watering ponds and other water impoundments.""

- Under Cropland, General management considerations: "Because of the low available water capacity, light and frequent applications of irrigation water are needed."

RECEIVED

NOV 23 2020

**OWRD** 



This page left intentionally blank.

### Minimum Requirements Checklist

Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.140)

### Include this checklist with the application

Check that each of the following items is included. The application will be returned if all required items are not included. If you have questions, please call the Water Rights Customer Service Group at (503) 986-0900.

Please submit the original application and signatures to the Water Resources Department. Applicants are encouraged to keep a copy of the completed application.

| $\boxtimes$            | SECTION 1:        | Applicant Information and Signature                                      |                    |
|------------------------|-------------------|--------------------------------------------------------------------------|--------------------|
| $\boxtimes$            | SECTION 2:        | Property Ownership                                                       |                    |
| $\boxtimes$            | SECTION 3:        | Well Development                                                         | .•                 |
| $\overline{\boxtimes}$ | SECTION 4:        | Sensitive, Threatened or Endangered Fish Species Public Interest Informa | tion               |
| $\overline{\boxtimes}$ | SECTION 5:        | Water Use                                                                | DE0-11-            |
| 図                      | <b>SECTION 6:</b> | Water Management                                                         | RECEIVED           |
|                        | SECTION 7:        | Project Schedule                                                         | MOM 9 9 coop       |
| $\overline{\boxtimes}$ | SECTION 8:        | Resource Protection                                                      | NOV <b>23</b> 2020 |
| $\overline{\boxtimes}$ | SECTION 9:        | Within a District -N/A                                                   |                    |
| $\overline{\boxtimes}$ | SECTION 10:       | Remarks                                                                  | OWRD               |

### Include the following additional items:

- □ Land Use Information Form with approval and signature of local planning department (must be an original) or signed receipt.
- 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.
- Fees Amount enclosed: \$ 3,610
  See the Department's Fee Schedule at <a href="www.oregon.gov/owrd">www.oregon.gov/owrd</a> or call (503) 986-0900.
- Map that includes the following items:
  - Permanent quality and drawn in ink
  - $\boxtimes$  Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)
  - North Directional Symbol
  - Marter, Tax Lots
  - Reference corner on map
  - Location of each diversion, by reference to a recognized public land survey corner (distances north/south and east/west)
  - ☐ Indicate the area of use by Quarter/Quarter and tax lot identified clearly.
  - Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery

Note: In addition to a groundwater application, a standard reservoir application is required to store groundwater in a reservoir. If an applicant proposes to divert water from a reservoir, a surface water application is also required.

### **Water-Use Permit Application Processing**

### 1. Completeness Determination

The Department evaluates whether the application and accompanying map contain all of the information required under OAR 690-310-0040 and OAR 690-310-0050. The Department also determines whether the proposed use is prohibited by statute. If the Department determines that the application is incomplete, all fees have not been paid, or the use is prohibited by statute, the application and all fees submitted are returned to the applicant.

#### 2. Initial Review

The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus \$260. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

#### 3. Public Notice

Within 7 days of the mailing of the initial review, the Department gives <u>public notice</u> of the application in the weekly notice published by the Department at <u>www.oregon.gov/owrd</u>. The public comment period is 30 days from publication in the weekly notice.

### 4. Proposed Final Order Issued

The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the IR, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

#### 5. Public Notice

Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is \$410.00 for the applicant and \$810.00 for non-applicants. Protests are filed on approximately 10 percent of Proposed Final Orders. If a protest is filed the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

#### 6. Final Order Issued

If no protests are filed, the Department can issue a Final Order within 60 days of the close of the period for receiving protest. If the application is approved, a permit is issued. The permit specifies the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate



NOV 23 2020



### **RECEIVED**

NOV 2 3 2020

**OWRD** 

**FIGURES** 



### **OWRD WELL LOGS**

| NOTICE TO WATER WELL CONTRACTOR  The original and first copy of this ceptor  are to be filed with the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L REPORT - Per WW.                                                                              | 33 10000                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------|
| WATER RESOURCES DEPARTMENT, OF DA 1880 STATE OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OREGON 1182 State Well No.                                                                      | <u> </u>                                    |
| within 30 days from the date of well completion WATER RESOURCES (DED with ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | or print) State Permit No                                                                       | . 16-9745                                   |
| of well completion WATER RESOURCE OF MILE WITE AND OREGON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                                             |
| SALLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (10) LOCATION OF WELL:                                                                          |                                             |
| (1) OWNER:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | County Las Driller's well nu                                                                    | imber 124                                   |
| Name And Carana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 74 4 Sw 4 Section 23 T.355                                                                      |                                             |
| Address 30-1 89 Purily Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bearing and distance from section or subdivision                                                |                                             |
| (2) TYPE OF WORK (check).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Dennis and distance some some                                                                   |                                             |
| New Well Deepening Reconditioning Abandon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                                             |
| If abandonment, describe material and procedure in Item 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (11) WATER LEVEL: Completed w                                                                   | ell.                                        |
| (3) TYPE OF WELL: (4) PROPOSED USE (check):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Depth at which water was first found 60 ga                                                      |                                             |
| Retary Driven Domestic Industrial Municipal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ·   — //                                                                                        | urface. Date OCT, 2.2-                      |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Artesian pressure lbs. per squar                                                                | e inch. Date                                |
| CASING INSTALLED: Threaded   Welded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (12) WELL LOG: Diameter of well b                                                               | elow casing 154 1 70                        |
| 16 " Diam. from 6 it to 22 it Gage 1250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Depth drilled 983 ft. Depth of comple                                                           |                                             |
| "Diam. fromft. toft. Gage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Formation: Describe color, texture, grain size a and show thickness and nature of each strature | ind structure of materials;                 |
| Diam, from It. U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | with at least one entry for each change of format                                               | lion.Report each change in                  |
| PERFORATIONS: Perforated? \(\sigma\) Yes \(\sigma\) No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | position of Static Water Level and indicate prin                                                | From To SWL                                 |
| Type of perforator used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MATERIAL                                                                                        | 0 2                                         |
| Size of perforations in. by in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A la Contract de obse                                                                           | 2 108                                       |
| perforations fromft. toft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bolin House Bin work                                                                            | 168 18/                                     |
| perforations from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 170 W/10 seem                                                                                   |                                             |
| perforations from 1t. to 2t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Brown Clay                                                                                      | 181 210                                     |
| (7) SCREENS: Well screen installed? Yes Who                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bown shall                                                                                      | 210 251                                     |
| Manufacturer's Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BO Cley                                                                                         | 25/ 286                                     |
| Type Model No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | med frest whele                                                                                 | 291 297                                     |
| Diam, Slot size Set from ft. to ft.  Diam, Slot size Set from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Died Jarok Street Street and                                                                    | 297 330                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Their Brown shelo                                                                               | 330 720                                     |
| (8) WELL TESTS: Drawdown is amount water level is lowered below static level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 720' Hot water                                                                                  |                                             |
| s pump test made?  Yes PNo If yes, by whom?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | al cle                                                                                          | 720 775                                     |
| d: gal./min. with ft. drawdown after hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Book Hand TRECE                                                                                 | 725 800                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Hard Alyle                                                                                      | 70 70                                       |
| H H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NOV 2                                                                                           | 3 2020                                      |
| gal./min. with ft. drawdown after / hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                 |                                             |
| esian flow g.p.m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OW                                                                                              | RD                                          |
| aperature of water 220 Depth artesian flow encountered ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Work started 1980 Complete                                                                      |                                             |
| (9) CONSTRUCTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date well drilling machine moved off of well                                                    | def 22 1980                                 |
| Well seal-Material used Comen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Drilling Machine Operator's Certification:                                                      | Jimat sumanyisian                           |
| Well sealed from land surface to 3/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | This well was constructed under my Materials used and information reported                      | above are true to my                        |
| Diameter of well bore to bottom of seal 20 in 201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | hast knowledge and helief.                                                                      | Date 0 12 31900                             |
| Diameter of well bore below seal 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Challing Machine Operator)                                                                      | _                                           |
| Number of sacks of cement used in well seal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Drilling Machine Operator's License No.                                                         | 1502                                        |
| How was cement grout placed?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                 |                                             |
| 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -  | Water Well Contractor's Certification:  This well was drilled under my jurisd                   | iction and this report is                   |
| Alabase assessmentable resistance of the second sec | true to the best of my knowledge and bel                                                        | icf.                                        |
| Was a drive shoe used? ☐ Yes W No Plugs Size: location ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nama Jula aldama di                                                                             | (Type or print)                             |
| Did any strata contain unusable water?   Yes No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (Person, firm or corporation)  Address At 1 By 499 Hills                                        |                                             |
| Type of water? depth of strata                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Address T. C. C.                                                                                | Letter to farming the second of the desired |
| Method of sealing strata off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | [Signed] (Water Well Control                                                                    |                                             |
| Was well gravel packed?  Yes No Size of gravel:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Contractor's License No. 67.0. Date                                                             |                                             |
| Gravel placed from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                 |                                             |

### RECEIVED BY OWRD



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem Oregon 97301 (503) 986-0900 www.wrd.state.or.us

AUG 1 0 2015

# Application for Well ID Number

SALEM, OR

Do not complete if the well already has a Well Identification Number.

**RECEIVED** 

NOV 23 2020

|                                                                                                                                                                                                                           |                                                                                        | 1101 20 2020                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| I. OWNER INFORMATION                                                                                                                                                                                                      |                                                                                        | 01117                                                                      |
| Current Owner Name (please print): Colahan                                                                                                                                                                                | Enterprises                                                                            | OWRD                                                                       |
| Mailing Address: PO Box 300                                                                                                                                                                                               |                                                                                        |                                                                            |
| City, State, Zip: Paisley, Oregon 97636                                                                                                                                                                                   |                                                                                        |                                                                            |
| Mail Well ID Tog to: SAME AS AT                                                                                                                                                                                           | BOVE In Care Of (C/O)                                                                  |                                                                            |
| Name & Address: Attn: Lynn Culp, Surprise                                                                                                                                                                                 | e Valley Electrification Corp. (SVEC); 51                                              | 6 US Highway 395 E.                                                        |
| City, State, Zip: Alturas, CA, 96101                                                                                                                                                                                      |                                                                                        |                                                                            |
|                                                                                                                                                                                                                           |                                                                                        |                                                                            |
| II. WELL LOCATION INFORMATION                                                                                                                                                                                             | ON (Please fill out as completely as possible                                          | )                                                                          |
| Township: 33S (North / South                                                                                                                                                                                              | 4.07                                                                                   |                                                                            |
| Tax Lot: 1300 Count                                                                                                                                                                                                       | y Lake NV                                                                              |                                                                            |
| GPS Coordinates: already assigned OWRI                                                                                                                                                                                    | ) well log numbers: LAKE 1627/4448 - b                                                 | ut no ID#                                                                  |
| Street Address of Well, City: > 42.69                                                                                                                                                                                     | 393 -120.568195                                                                        |                                                                            |
|                                                                                                                                                                                                                           |                                                                                        |                                                                            |
| If the property had a different street address in                                                                                                                                                                         | the past:                                                                              |                                                                            |
| Use of Well (domestic, irrigation, commercial, Date Well Constructed (or property built): Se Owner at time the well was constructed (if kno Other Information: Well name: Hot Well SUBMITTED BY (please print): Lynn Culp | Total Well Depth: 983<br>wn): Ross Colahan                                             | Casing Diameter: 16 <sup>n</sup>                                           |
| SUBMITTED BY (please print): Cyrin Guip                                                                                                                                                                                   | / curplies talley in lynnsyer@frontie                                                  | r.com                                                                      |
| PHONE: (530) 233-3511                                                                                                                                                                                                     | EMAIL &/or FAX: iynnsvec@frontie                                                       |                                                                            |
| Send application to: Oregon Water Resources 0902. Applications are processed in the order                                                                                                                                 | Department 725 Summer St NE, Suite A, Sa<br>they are received, and Well ID Numbers are | em, Oregon 97301; or fax to (503) 986-<br>mailed within 4-5 business days. |
| For Official                                                                                                                                                                                                              | Use Only by the Oregon Water Resources De                                              | epartment:                                                                 |
| Received Date:                                                                                                                                                                                                            | Well Log Number:                                                                       | Well Identification #:                                                     |
| 8-10-15                                                                                                                                                                                                                   | LAKE 1627 (ORIG.)                                                                      | L-119827                                                                   |
| 0 10 10                                                                                                                                                                                                                   | LAKE 4448 ( ALT.)                                                                      |                                                                            |

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the

- STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

# STATE OF OREGON

OCT 2 1981 State Afric No. G-10791

(Please type or print) (Do not write above this line) RESOURCES DEPT

| (1) OWNER:                                                                   | (10) LOCATION OF WELL:                                                                                                                                                                                                        |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name ROSS Colahan                                                            | County Driller's well number                                                                                                                                                                                                  |
| Address Pay Pay S/ By ONLE                                                   | 5 E 14 SW 14 Section 2 3 T. 33 5 R. 18 E W.M.                                                                                                                                                                                 |
|                                                                              | Bearing and distance from section or subdivision corner                                                                                                                                                                       |
| (2) TYPE OF WORK (check):                                                    |                                                                                                                                                                                                                               |
| New Well □ Deepening □ Reconditioning 🕱 Abandon □                            |                                                                                                                                                                                                                               |
| If abandonment, describe material and procedure in Item 12.                  | (11) WATER LEVEL: Completed well.                                                                                                                                                                                             |
|                                                                              | 1 · ·                                                                                                                                                                                                                         |
|                                                                              | Deput at which water was most admira                                                                                                                                                                                          |
| Rotary Driven Domestic Industrial Municipal Cable J Jetted D                 | Static level 145 ft. below land surface. Date 9-22-8                                                                                                                                                                          |
| □ Bored □ Irrigation □ Test Well 🕽 Other □                                   | Artesian pressure lbs. per square inch. Date                                                                                                                                                                                  |
| CASING INSTALLED: Threaded   Welded   tt. toft. Gage                         | (12) WELL LOG: Diameter of well below casing N/A  Depth drilled ft. Depth of completed well 770 ft.                                                                                                                           |
| Diam. from ft. to ft. Gage                                                   | Formation: Describe color, texture, grain size and structure of materials;                                                                                                                                                    |
| ft. Gage ft. Gage                                                            | and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata. |
| PERFORATIONS: Perforated? M Yes   No.                                        |                                                                                                                                                                                                                               |
| -, of perforator used FACTONY 1/8" X 4"                                      | MATERIAL From To SWL                                                                                                                                                                                                          |
| Size of perforations 1/8 in, by 4 in.                                        | Inistalled Liner andy                                                                                                                                                                                                         |
| 1656 perforations from 476 #. to 545 #.                                      | 178' 1/4" X8" Line                                                                                                                                                                                                            |
| 1840 perforations from 669 ft. to 758 ft.                                    | 6 Flor 592 TO 770'                                                                                                                                                                                                            |
| 1584 perforations from 570 ft. to 669 ft.                                    | 24' ,375 wall x12" From                                                                                                                                                                                                       |
|                                                                              | 616' TO 640                                                                                                                                                                                                                   |
| (7) SCREENS: Well screen installed? [] Yes [7] No                            | +1' TO 616 FT 1/4"X                                                                                                                                                                                                           |
| Manufacturer's Name                                                          | 12" Liney                                                                                                                                                                                                                     |
| Type Model No                                                                | bin BOT 12" E 8"                                                                                                                                                                                                              |
| Diam Slot size Set from ft. to ft.                                           | Liver Las a drive                                                                                                                                                                                                             |
| Diam Slot size Set from ft. to ft.                                           | shoe.                                                                                                                                                                                                                         |
| (8) WELL TESTS: Drawdown is amount water level is lowered below static level |                                                                                                                                                                                                                               |
|                                                                              | RECEIVED                                                                                                                                                                                                                      |
| Was a pump test made? Yes No If yes, by whom?                                |                                                                                                                                                                                                                               |
| 800 gal./min. with 8 ft. drawdown after 4 hrs.                               | N DV 2 3 2020                                                                                                                                                                                                                 |
|                                                                              |                                                                                                                                                                                                                               |
| и и и                                                                        | OWEN                                                                                                                                                                                                                          |
| Bailer test gal./min. with ft. drawdown after hrs.                           |                                                                                                                                                                                                                               |
| ian flow W/A g.p.m.                                                          |                                                                                                                                                                                                                               |
| perature of water 22 Depth artesian flow encountered                         | Work started 17 # 19 8/ Completed 9-29 19 8/                                                                                                                                                                                  |
|                                                                              | Date well drilling machine moved off of well 9-28 198/                                                                                                                                                                        |
| (9) CONSTRUCTION:                                                            |                                                                                                                                                                                                                               |
| Well seal-Material used NOT DISTURGE                                         | Drilling Machine Operator's Certification:  This well was constructed under my direct supervision.                                                                                                                            |
| Well sealed from land surface to it.                                         | Materials used and information reported above are true to my                                                                                                                                                                  |
| Diameter of well bore to bottom of seal in.                                  | best knowledge and belief.                                                                                                                                                                                                    |
| Diameter of well bore below sealin.                                          | [Signed]                                                                                                                                                                                                                      |
| Number of sacks of cement used in well seal                                  | Drilling Machine Operator's License No.                                                                                                                                                                                       |
| Number of sacks of bentonite used in well seal sacks                         | Diffining Machinic Operators 2.555                                                                                                                                                                                            |
| Brand name of bentonite                                                      | Water Well Contractor's Certification:                                                                                                                                                                                        |
| Number of pounds of benionite per 100 gallons                                | This well was drilled under my jurisdiction and this report is                                                                                                                                                                |
| of water lbs./100 gals.                                                      | true to the best of my knowledge and belief.                                                                                                                                                                                  |
| Was a drive shoe used? 🗆 Yes 🗆 No Plugs Size: location ft.                   | Name Candoulair Boald # BBD 231 9815 (Person, firm or corporation) (Type or print)                                                                                                                                            |
| Did any strata contain unusable water?   Yes No                              | Address BOX 89 Paislay 905                                                                                                                                                                                                    |
| Type of water? depth of strata                                               | Audiess                                                                                                                                                                                                                       |
| Method of sealing strata off                                                 | [Signed] (Water Well Contractor)                                                                                                                                                                                              |
| Was well gravel packed?  Yes No Size of gravel:                              | l *                                                                                                                                                                                                                           |
| Gravel placed from ft. to ft.                                                | Contractor's License No Date                                                                                                                                                                                                  |

### RECEIVED BY OWRD



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem Oregon 97301 (503) 986-0900 www.wrd.state.or.us

AUG 1 0 2015

### **Application for** Well ID Number

SALEM, OR

Do not complete if the well already has a Well Identification Number.

RECEIVED

NOV 23 2020

|                            |                                                                                                                               |                                                                             |                              |                                                           | * -                                                        |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|------------------------------------------------------------|----------|
|                            | OWNER INFORMAT                                                                                                                |                                                                             |                              |                                                           | OWRD                                                       |          |
| Current (                  | Owner Name (please pri                                                                                                        | nt): Colahan Enterpri                                                       | 50S<br>                      |                                                           | Office                                                     |          |
| Mailing .                  | Address: PO Box 300                                                                                                           |                                                                             |                              |                                                           |                                                            |          |
| City, Sta                  | te, Zip: Paisley, Orego                                                                                                       | n 97636                                                                     |                              |                                                           |                                                            |          |
| 3.6.11.337.                | .11 TD Tro- And                                                                                                               | SAME AS ABOVE                                                               | ✓ In Care                    | Of (C/O)                                                  |                                                            |          |
| Name &                     | Address: Attn: Lynn Co                                                                                                        | ulp, Surprise Valley I                                                      | Electrification              | Corp. (SVEC); 516 US I                                    | Highway 395 E.                                             |          |
| City, Sta                  | te, Zip: Alturas, CA, 96                                                                                                      | 5101                                                                        |                              |                                                           |                                                            |          |
| II.<br>Townshi<br>Tax Lot: | 1300                                                                                                                          | (North / South) Rar                                                         | nge: 18E                     | (East / West)<br>NW                                       | Section: 23                                                |          |
| GPS Co                     | ordinates: already ass                                                                                                        | igned OWRD well log                                                         | numbers: L                   | AKE 1627/4448 - but no l                                  | D#                                                         |          |
| Street A                   | ddress of Well, City:                                                                                                         | » 42.69393                                                                  | -/20.                        | 568175                                                    |                                                            |          |
|                            | operty had a different str                                                                                                    |                                                                             |                              |                                                           |                                                            |          |
| Date Wo                    | GENERAL WELL IN Well (domestic, irrigation cell Constructed (or prope at time the well was constructed) formation: Well name: | , commercial, industria<br>rty built): Sept 1980<br>tructed (if known): Ros | l, monitoring): Total        | irrigation Well Depth: 983'                               | Casing Diameter: 16                                        |          |
|                            |                                                                                                                               |                                                                             | e Valley Elec                | tric Corp.                                                |                                                            |          |
| SUBMI                      | TTED BY (please print)                                                                                                        | Eyini Caip i Carpino                                                        | TE Class PAV                 | lynnsvec@frontier.com                                     |                                                            |          |
|                            | 0.1.0                                                                                                                         | ter Resources Departme<br>d in the order they are r                         | ent 725 Summerceeived, and V | er St NE, Suite A, Salem, O<br>Vell ID Numbers are mailed | regon 97301; or fax to (50:<br>I within 4-5 business days. | 3) 986-  |
|                            |                                                                                                                               | For Official Use Only                                                       |                              | Water Resources Departm                                   |                                                            |          |
| R                          | Received Date:                                                                                                                |                                                                             | Well Log                     |                                                           | Well Identific                                             |          |
|                            | 3-10-15                                                                                                                       | -                                                                           |                              | 1627 (ORIG.)                                              | - 11 (0                                                    | <u> </u> |
|                            |                                                                                                                               |                                                                             | LAKE                         | 4448 (ALT.)                                               |                                                            |          |



SVE-1

| (I) LA                | ND OW                                            | NER         |              |                     | Well No   | mber SV         | E #1      | (9) LOCATION O         | WELL by legal          | descriptions                                     |                |                |
|-----------------------|--------------------------------------------------|-------------|--------------|---------------------|-----------|-----------------|-----------|------------------------|------------------------|--------------------------------------------------|----------------|----------------|
| Name                  | Colal                                            | 000_E       | ماودودن      |                     |           |                 |           |                        | Latitude               |                                                  |                |                |
| Address               | P, O,                                            | Box         | 300          |                     |           |                 |           |                        | SN or SRang            |                                                  |                | WM.            |
| City P                | ricley                                           |             |              | State O             | <u> </u>  | Zip             | 17636     |                        | 1/4.                   |                                                  |                |                |
| (2) TV                | PE OF                                            | WORL        |              |                     |           | _               |           | Tax Lot                | LotBio                 | ckS                                              | bdivision_     |                |
| New                   | Well 🗆                                           | Deeper      | ing 🗀 Alu    | ration (repair      | hecondi   | ion) 🗆 Abs      | adonment  | Street Address of V    | Vell (or newest addres | 1) 2,050 Ct                                      | <u>N 5 1,3</u> | 170 CF E       |
| (3) DR                | ILL MI                                           | ETHO        | D:           |                     | _         |                 |           |                        | D COTTE of             | SICHON W                                         | 1              | ===            |
| Roter                 | y Air C                                          | Roter       | Mud 🗆        | Cable DA            | uger      |                 |           | (10) STATIC WAT        | RR LEVEL:              |                                                  | D-14           |                |
| Other                 |                                                  |             |              |                     |           |                 |           | n. b                   |                        |                                                  | Date           |                |
| (4) PR4               | DPOSE                                            | D USE       | :            | 900                 |           |                 |           | Antesias pressure _    |                        | advers rucu                                      | Date           |                |
| ☐ Dom                 | estic 🛚                                          | Comm        | unity 🔲 In   | dusarial 🗆          | Irrigatio | MI.             |           | (11) WATER BEAT        | UNG ZONES:             |                                                  |                |                |
| Therr                 | nel 🚨                                            | Injection   | e Di         | vestock 🗆           | Other_    |                 |           | Depth at which water v | vas first found        |                                                  |                |                |
| (5) BO                | re ho                                            | LB CC       | NSTRUC       | TION:<br>s 🗌 No Dep | A-10      | lased the       | u1360 p   | From                   | The                    | Estimated F                                      |                | SWL            |
| Special               | Construc                                         | tion app    | TOWN IN THE  |                     | AI OI C   | monet<br>Mariet | **        | Free                   |                        | Eatmanter &                                      |                | 3              |
| Explosiv              | HOLE.                                            | ∐ TES       | F140 ilb     | SEAL                | ^         | 10010           |           | <u> </u>               |                        | <del> </del>                                     |                |                |
| Diameter              |                                                  | The         | Materia      |                     | Th        | Sacks or pr     | rende     | ]                      |                        | <del></del>                                      |                | 11             |
|                       |                                                  |             |              |                     |           |                 |           | <del> </del>           |                        | <del>                                     </del> |                | <del>  </del>  |
|                       | 0                                                | 1360        |              | 0                   | 900       |                 |           | <del>   </del>         |                        | <del>                                     </del> | ·              | 1              |
|                       |                                                  |             |              |                     | ļ         | <u> </u>        |           |                        |                        |                                                  |                |                |
|                       |                                                  |             | 2.4          |                     | 8 [       | C DD            | DE        | (12) WELL LOG:         | and Elevation          |                                                  |                |                |
|                       |                                                  |             | Method       | U                   |           | JC 110          |           | Grai                   | ING SIEVENOR           |                                                  |                |                |
| Other                 |                                                  |             | fi. to       | ft                  | Materi    | al              |           | Mate                   | riel                   | Prom                                             | To             | SWL            |
| Covel a               | praced for                                       |             | ft. to       | n.                  |           | pravel          |           |                        |                        |                                                  |                | <u> </u>       |
| (6) CA                |                                                  |             |              |                     |           |                 |           | Ì                      |                        |                                                  |                | <u> </u>       |
| (a) CA                | Diameter                                         |             |              | auge Stool          | Plantic   | Welded          | Threaded  | ·                      |                        |                                                  |                | <b></b> _      |
| Castne:-              |                                                  | 1_          |              |                     |           |                 |           |                        |                        |                                                  |                |                |
| _                     |                                                  | 1_          |              |                     |           |                 |           | See attach             | <u>.</u>               |                                                  |                | -              |
| 1                     | 3 <del>}</del> /8 '                              | <u>"  0</u> | 900          |                     |           | <u> </u>        |           | [                      |                        |                                                  |                |                |
| -                     |                                                  | 4           | ╼┾╼┼╼        |                     |           |                 |           |                        |                        |                                                  |                |                |
| Liner: _              |                                                  |             | ╌            | <del>_</del>        |           | 0               |           | [ <del></del>          |                        |                                                  |                | <del> </del> - |
| <del>.</del>          |                                                  |             |              | []<br>de [] None    |           |                 | ш         |                        |                        |                                                  |                | -              |
| Drive St<br>Final loc | 100 USCO<br>Stion of                             | shoe(s)     |              | E   140m            |           |                 |           |                        |                        |                                                  |                |                |
|                       |                                                  |             | SSCREE       |                     |           |                 |           | \ <u> </u>             | REC                    | EIVED                                            |                |                |
|                       | erforation                                       |             | Method_      |                     |           |                 |           | [ <del> </del>         |                        |                                                  |                |                |
|                       | दाहरतार्थ                                        |             | Туре         |                     |           | serial          |           |                        | NUV                    | 2 3 2020                                         |                |                |
|                       | _                                                | Stel        |              | Diameter            | Tele/pl   |                 | Liner     |                        |                        |                                                  |                |                |
| From                  | 70                                               | )<br>       | LACENDEL     | Panistes            | ı         |                 |           |                        | 0                      | WRD-                                             |                |                |
|                       | <del>                                     </del> |             |              | -                   |           |                 | ō         |                        |                        | ANIAD.                                           |                |                |
|                       |                                                  |             |              |                     |           |                 |           |                        |                        |                                                  |                |                |
|                       |                                                  |             |              |                     |           |                 |           |                        |                        |                                                  |                |                |
|                       |                                                  |             |              |                     |           | 6.77            |           | Due started            | Co                     | mpleted                                          |                |                |
| (8) WE                | LL TE                                            | STS: I      |              | testing tim         | 6 1 1 0   | iour<br>Plov    | ving      |                        |                        |                                                  |                |                |
|                       | шÞ                                               |             | ailer        | ☐ Air               |           | ☐ Arte          |           | ļ                      |                        |                                                  |                |                |
| Ylets                 | gal/mla                                          | Dr          | swdows_      | Drill st            | an at     |                 | Time .    | SOURCE C               | F DATA/II              | NFO                                              |                | _              |
|                       |                                                  |             |              |                     |           |                 | hr.       | Kie T-1                |                        |                                                  |                |                |
| ~1,0                  | 000                                              |             |              |                     |           | 4               |           | File U.                |                        |                                                  |                |                |
|                       |                                                  |             |              |                     |           |                 |           |                        |                        |                                                  |                |                |
| 7                     | ture of v                                        |             | 1            | Depth Artesia       | n Flow    | Found           |           |                        |                        |                                                  |                |                |
|                       | eter anal                                        |             |              | s By who            |           |                 |           | COMPILED               | RV. Gara               | d Gazza's                                        |                |                |
| Did say               | 10794A CO                                        | mesia wi    | Her not suit | ble for inten       | ded use   |                 | bo little | TOMETER                | 74.00                  | Groundwi                                         | Let S.         | Has            |
| □ Sain                | DM                                               | uddy        | Odor [       | Colored             | Oth       | r               |           | [                      | <u> </u>               | CLATTANO                                         |                | - Dun          |
| Depth o               | f strata:                                        |             |              |                     |           |                 |           |                        | 1 ( 35.0)              |                                                  |                |                |
| •                     |                                                  |             |              |                     |           |                 |           | DATE DA.               | שוני משוץ              |                                                  |                |                |

## LITHOGRAPHIC DESCRIPTION OF OIL OR GAS WELL (Not required if a mud log is submitted)

STATE OF OREGON • DEPT OF GEOLOGY & MINERAL INDUSTRIES • 229 BROADALBIN ST SW • ALBANY OR 97321

(In compliance with rules and regulations pursuant to ORS 520.)

(1) Permittee Information

| Name            | Surprise Valley Electrification Corp.                   |
|-----------------|---------------------------------------------------------|
| Mailing Address | 516 US Hwy 395 E                                        |
| City/State/Zip  | Alturas, CA 96101                                       |
| Telephone       | 530.233.3511                                            |
| Fax             | 530.233.2190                                            |
| Email           | lynnsvec@frontier.com                                   |
| Prepared by     | Lynn Culp, Silvio Pezzopane, Roy Mink,<br>Kyle Makovsky |

(2) Well Information

Well No. SVE #1

DOGAMI ID No. 36-037-90009 Lake 448

### **RECEIVED**

NOV 23 2020

### **OWRD**

General Manager

5/29/2012

Signature

Title

Date

(3) Well Cuttings

| 3) Well Cu | ttings |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| De         | pth    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| From       | To     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0          | 40     | Brown clay soil and gravelly sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 40         | 75     | Brownish-grey rounded mixed volcanic (basalt, rhyolite, andesite, tuff, pumice) gravet, qtz-rich sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 75         | 105    | Grey quartz-rich sand, with thin brown and grey clay beds, Water Bearing (WB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 105        | 150    | Grevish-brown mixed volcanic gravel, gtz-sand, and clay, WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 150        | 165    | Brown mixed volcanic (basalt, rhyolite, andesite) gravel, rounded sand and clay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 165        | 175    | Brown clavey sand and mixed gravets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 175        | 225    | Blackish grey basalt gravel, w/ sand and clay beds, WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 225        | 240    | Rinchich grow to brown hasalt and andesite gravel, and sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 240        | 305    | Varicolored mixed volcanic (basalt, rhyolite, andesite, tuff) gravel and sand, w/ brown clay beds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 305        | 360    | Receive gravelly sand and brown clay beds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 360        | 390    | Varicolored (grey, brown, black, red, green) basalt, rhyolite, andesite gravel, sand, and brown clay, wo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 390        | 415    | Requirish arey and red volcanic gravel, sand, and clay, WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 415        | 435    | Varicolored mixed volcanic gravel (basalt, rhyolite, andesite, tuff), rounded, reddish brown sand and clay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 435        | 490    | Varicolored coarse volcanic gravel, rounded, red to brown sand, brown sticky clay beds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 490        | 530    | Vericologies person person reputed with said and reddish brown sticky clay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 530        | 540    | White calcite, black and grey basalt andesite, red rhyolite, red and grey tuff w/ brownish red sticky clay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 540        | 575    | Pad eticlos class as westcular and fiberous pumice clasts, minor sand, grey peoples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 575        | 640    | Red and grey tuffs w/ altered vesicles, minor grey to greenish to black basalt, andesite, myolite, WB?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 640        | 675    | The development and grow anderstow/ attempt vesicles, greenish basalt, blades of calcite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 675        | 715    | Light grow bacalt, reddish brown and green alteration stains, altered vesicles, pyrite, eunedral calcite and quartz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 715        | 715    | Light groups by group the reddish brown to dark purple basalt?, altered vesicles, pyrite, calcite and quartz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 715        | 795    | Dark grounds grow anderite? dark purplish brown basalt, minor light red and white turn, rare eunedral quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 795        | 870    | Dark grey to brown basalt w/ white pumice chunks, rare red and white turr cinders, rare eunedral quartz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 870        | 905    | Dark greenish grey to dark purplish brown basalt, few pumice, rare euhedral and calcite quartz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 870        |        | Grow to white calcite flakes, possible fracture zone?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 905        | 920    | Les sests dans lost circulation, camples floated un during trip out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 920        | 950    | Resum estato click clay ach large (<7 cm dia ) eubedral calcite chunks, red cinders and pumice, ones natu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 950        | 1000   | Towards are and beauty lithic triff, poorly, wolded? Soft Waxy, STICKY ashy clay, small calcile and quartz crystals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1000       | 1050   | Communication states and states and quartz crystals. The condens of the condens o |
| 1050       | 1080   | Dark greenish grey andesite, reddish purple stains, hard, fine-grained, large euhedral calcite flakes (fractures?)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1080       | 1100   | - data as refurme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1100       | 1100   | Red, grey, white, and brown lithic tuff or volcaniclastic sediment (depth uncertain, samples floated up during cleaning)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1100       | 1120   | to the second less disculation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1100       |        | Dark preenish grey andesite, reddish purple clay? stains, hard, fine-grained, red lithic turr w/ eunecial quartz crystals,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1120       | 1120   | (depth uncertain, sample picked out of the drill collar)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1120       | 1133   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            |        | Reddish brown, lithic tuff, poorly-welded?, sticky clay, dries hard, small calcite and quartz crystals (depth uncertain,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1133       | 1133   | sample stuck to the drill bit face)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1133       | 1235   | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1235       | 1315   | no data - no returns  Dark greenish grey andesite, red lithic tuff, euhedral quartz crystals, (depth uncertain, sample stuck to the bailer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | 1360   | no data - no returns                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1315       | 1360   | - Total Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|            | 1300   | I - Joen solou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

REV. 08/05/03



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem Oregon 97301 (503) 986-0900 www.wrd.state.or.us

# Application for Well ID Number

RECEIVED BY OWRD

| Do no | t complete | if the | well | already | has a | Well | Identification | Number. |
|-------|------------|--------|------|---------|-------|------|----------------|---------|
|-------|------------|--------|------|---------|-------|------|----------------|---------|

NOV 0 3 2014

| I. OWNER INFORMATION                                                                           |                                                 | SALEM, OF                                                                |
|------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------|
| Current Owner Name (please print): Suprise                                                     | ley Electrification Corp. (SVEC); Attn: L       | ynn Culp                                                                 |
| Current Owner Name (please print): Gaprise                                                     | ioy Elocalitedustricus (estation)               |                                                                          |
| Mailing Address: 516 US Highway 395 E                                                          |                                                 |                                                                          |
| City, State, Zip: Alturas, CA, 96101                                                           |                                                 |                                                                          |
| Mail Well ID Tag to: SAME AS AE                                                                | VE In Care Of (C/O)                             | RECEIVED                                                                 |
| Name & Address:                                                                                |                                                 | NUV 2 3 2020                                                             |
| City, State, Zip:                                                                              |                                                 | 2020                                                                     |
|                                                                                                |                                                 | OWRD                                                                     |
| II. WELL LOCATION INFORMATION                                                                  | (Please fill out as completely as possible)     |                                                                          |
| Township: 33S (North / South                                                                   | Range: 18E (East / Wes                          | t) Section: 23                                                           |
| 1300 C                                                                                         | Lake NE                                         | 1/4 of the SW 1/4                                                        |
| Fax Lot: 1300 Count  GPS Coordinates: already assigned a OWF                                   | well Log number: LAKE 52530 - but do            | es not have ID number                                                    |
|                                                                                                |                                                 |                                                                          |
| Street Address of Well, City:                                                                  |                                                 |                                                                          |
| If the property had a different street address in                                              | past:                                           |                                                                          |
|                                                                                                |                                                 |                                                                          |
| III. GENERAL WELL INFORMATIO                                                                   | Please fill out as completely as possible)      |                                                                          |
| II CW-II (demostic importion commercial                                                        | fustrial monitoring): industrial/geotherm       | al & irrigation                                                          |
| AUAUAU                                                                                         | SI 2012 Total Well Denth. 1300                  | Casing Diameter:                                                         |
| Owner at time the well was constructed (if kno                                                 | SVEC is well owner - Colahan's own              | the property                                                             |
| Owner at time the well was constructed (it kno                                                 | );                                              |                                                                          |
| Other Information: Well name: SVE-1                                                            |                                                 |                                                                          |
| SUBMITTED BY (please print). Lynn Culp                                                         |                                                 | <u> </u>                                                                 |
| (520) 233-3511                                                                                 | EMAIL &/or FAX: lynnsvec@frontler.c             | com                                                                      |
| PHONE: (530) 233-3511                                                                          | EMAIL &/or FAX:                                 |                                                                          |
|                                                                                                |                                                 | 0 00001 5 10 (500) 096                                                   |
| Send application to: Oregon Water Resources I 0902. Applications are processed in the order to | partment 725 Summer St NE, Suite A, Salen       | n, Oregon 97301; or tax to (303) 980-<br>ailed within 4-5 business days. |
| 1902. Applications are processed in the order t                                                | y are received, and wen in the rivingers are in |                                                                          |

For Official Use Only by the Oregon Water Resources Department:

Received Date:

Well Log Number:

Well Identification #; L-117043



JVE-2

|              |                                                   |              |                   |               |                                                  |             |                      | 6                      |                          |                                                  |                                                  |                |
|--------------|---------------------------------------------------|--------------|-------------------|---------------|--------------------------------------------------|-------------|----------------------|------------------------|--------------------------|--------------------------------------------------|--------------------------------------------------|----------------|
| (I) LA       | ND OM                                             | NER          |                   |               | Welt No                                          | mber _SVI   | ена                  | (9) LOCATION O         | WELL by legal            | description:                                     |                                                  |                |
| Neme.        | <u>لما دې                                    </u> | عبممحة       | Akrarise          | -             |                                                  |             |                      | County LAKS            | Latitude                 | 185                                              |                                                  |                |
|              | P.O.                                              |              |                   | State O       | 0                                                | 7 n 9       | 17636                | Township 90            | N or S Rang              | <u> </u>                                         |                                                  | TT IVI.        |
| City         |                                                   |              |                   | SHE U         |                                                  |             | 1000                 |                        | 1/4.<br>Loi Blo          | _                                                |                                                  |                |
| (2) TY       | PE OF                                             | WOR          | K<br>sing □ Alter | ation (monaid |                                                  | ion) (TAbi  | adonment             | The Lot                | Veil (or nearest address | a 2.665 St                                       | AJ E 1.3                                         | os ft La       |
|              |                                                   |              |                   | ruosi uspen   | III (L. CO)                                      |             |                      | Street Address of V    | SE COLDER OF             | Section                                          | 23                                               |                |
| (3) DR       | ILL MI                                            | THO          | D:<br>yMud □C     | OA            | ner!                                             |             |                      | (10) STATIC WAT        |                          |                                                  |                                                  |                |
|              | ry Air L                                          |              | y #100            |               |                                                  |             |                      | n.b                    |                          |                                                  | Detc                                             |                |
|              | OPOSE                                             | _            | 2.                |               |                                                  |             |                      | Artesian pressure      |                          | square inch                                      | Detr                                             |                |
| (4) PM       | estic 🗆                                           | Comm         | unity 🔲 Inde      | nstrial 🗀     | Imigatio                                         | a           |                      | (11) WATER BEAT        | UNG ZONES:               |                                                  |                                                  |                |
| Malper       | mai 🗆                                             | Injection    | on 🔲 Live         | estock 🔯      | Other_                                           |             |                      | Depth at which water v | use Seet Found           |                                                  |                                                  |                |
| (5) BC       | RE HO                                             | LE C         | INSTRUCT          | ION:          |                                                  |             | 1360 a               |                        |                          |                                                  | New Bets                                         | SWL            |
| Special      | Construc                                          | tion spi     | proved Yes        | The Del       | NI OF C                                          | mpierca wi  | ار <u>ج مجدد</u> اا: | Prote                  | To                       | Estimated                                        | TOWN STREET                                      | SWL            |
| Explosi      | HOLE                                              | Li Yes       | □ No Type.        | SZAL          | ^                                                | 100111 2    |                      |                        |                          | <del> </del>                                     |                                                  | <del> </del> - |
| Diamela      | r From                                            | To           | Material          | ) Trees       | To                                               | Secks or pr | punde                | <del> </del>           |                          | <del>                                     </del> |                                                  | 1              |
|              |                                                   |              | _                 | 1             | 1105                                             |             |                      | <del> </del>           |                          |                                                  |                                                  |                |
|              | 10                                                | 1360         |                   | 10            | 495                                              |             | <del></del>          | 1                      | -                        |                                                  |                                                  |                |
|              | <del> </del>                                      |              |                   | +             | <del>                                     </del> |             |                      | (12) WELL LOG:         |                          |                                                  |                                                  |                |
| How w        | s seal pla                                        | ced:         | Method            |               | B (                                              | C DD        | C) E                 |                        | nd Elevation             |                                                  |                                                  |                |
| ☐ Othe       | ٠                                                 |              |                   |               |                                                  |             |                      | Mate                   | -lat                     | Prom                                             | Te                                               | SWL            |
| Backfill     | placed fi                                         | mo           | ft. to            | ft            | Maleri                                           |             |                      | 71344                  | -                        | ****                                             | <del>                                     </del> |                |
|              |                                                   |              | ft. to            | <u> </u>      | Size of                                          | gravel      | ===                  | 1                      |                          |                                                  | 1                                                | $\vdash$       |
| (6) CA       | SING/L<br>Diameter                                | INER         | :<br>- To Go      | une Steel     | Plantic                                          | Welded      | Threaded -           |                        |                          |                                                  |                                                  |                |
| Custor:      |                                                   | 1 710        | LL                |               |                                                  |             | 0                    | See attack             | ed _                     |                                                  |                                                  |                |
|              |                                                   |              |                   |               |                                                  |             |                      |                        |                          |                                                  |                                                  | -              |
| ·            | 13-1/8/                                           | 0            | 495               | 🗆             |                                                  |             |                      | DI                     | CEIVE                    |                                                  | _                                                | -              |
|              |                                                   | -            |                   |               |                                                  | <u></u>     | 0                    | 111                    | CEIVE                    |                                                  | -                                                | -              |
| Liner:       |                                                   |              |                   |               | 0                                                | 0           | Ü                    | All                    | 11/ 2/3/ 2020            |                                                  |                                                  |                |
| Drive S      | hoe word                                          | O losis      | de Outsid         | U<br>E None   |                                                  |             |                      | 110                    | 7 2 0 7 117 1            |                                                  |                                                  |                |
| Final lo     | cation of                                         | shoc(s)      |                   |               |                                                  |             |                      |                        | OLULO                    |                                                  |                                                  |                |
|              |                                                   |              | SSCREEN           |               |                                                  |             |                      |                        | OWKD                     |                                                  |                                                  |                |
|              | er foration                                       | 20           | Method            |               | Ma                                               |             |                      |                        |                          |                                                  |                                                  | $\vdash$       |
| U.           | प्रदूधाः                                          | Stat         | Туре              |               | Tele/pl                                          | _           |                      |                        |                          |                                                  | -                                                | $\vdash$       |
| Frem         | Т                                                 |              | Number            | Diameter      | size                                             | Casing      | _                    | l———                   |                          |                                                  | <del> </del>                                     | -              |
|              |                                                   |              | ╌┾╌╼┼             |               | -                                                | _ 🖯         |                      |                        |                          |                                                  | -                                                | -              |
|              |                                                   |              | +                 |               | <del>                                     </del> | - 8         |                      |                        |                          |                                                  |                                                  |                |
|              | ├─                                                | -            | <del>-{</del> }   |               |                                                  | _           | ñ                    |                        |                          |                                                  |                                                  |                |
|              | <u> </u>                                          |              |                   |               | _                                                |             |                      | Date started           | Co                       | npleted                                          |                                                  |                |
| (8) WI       | LL TE                                             | STS: I       | Minimum te        | sting tim     | e is 1 h                                         | OUT<br>Ploy | ving                 |                        |                          |                                                  |                                                  |                |
| Dh           | unb                                               |              | ailer             | ☐ Air         |                                                  | ☐ Arte      |                      | ł.                     |                          |                                                  |                                                  |                |
| Ylete        | gal/min                                           | D            | - employe         | Drill pl      | eta et                                           |             | Time .               | SOURCE C               | F DATA/IN                | NFO_                                             |                                                  |                |
|              |                                                   | <b>↓</b>     |                   |               |                                                  |             | hr.                  |                        |                          |                                                  |                                                  |                |
| ~ <u>a,c</u> | OD                                                | <del> </del> |                   |               |                                                  | _           |                      | File ]                 | -11860                   |                                                  |                                                  |                |
|              |                                                   |              |                   |               |                                                  |             |                      | File                   | L-1450                   |                                                  |                                                  |                |
| Temper       | stere of w                                        | rater        |                   | epth Artesi   |                                                  | Pound       |                      | <u> </u>               |                          |                                                  |                                                  |                |
| Was a v      | vater anal                                        | yzis dor     | se? □Yes          | By who        |                                                  |             | bo little            | COMPILED               | BY: Geral                | d Grown                                          | 1                                                |                |
| Did any      | strata co                                         | ntain w      | ster not suitab   | le for inten  | CL Cub-                                          |             | OU BUIL              |                        | OWR                      | Groundle                                         | ster Sec                                         | - BOA          |
|              |                                                   |              | □ Odor □          | Coloued       | _ Out                                            | ·           |                      |                        |                          |                                                  |                                                  |                |
| rebig (      | of strata:                                        |              |                   |               |                                                  |             |                      | DATE                   | aa Ju                    | Ly aoi4                                          |                                                  |                |

## LITHOGRAPHIC DESCRIPTION OF OIL OR GAS WELL (Not required if a mud log is submitted)

STATE OF OREGON • DEPT OF GEOLOGY & MINERAL INDUSTRIES • 229 BROADALBIN ST SW • ALBANY OR 97321

(In compliance with rules and regulations pursuant to ORS 520.)

(1) Permittee Information

| Name            | Surprise Valley Electrification Corp.                   |
|-----------------|---------------------------------------------------------|
| Mailing Address | 516 US Hwy 395 E.                                       |
| City/State/Zip  | Alturas, CA 96101                                       |
| Telephone       | 530.233.3511                                            |
| Fax             | 530.233.2190                                            |
| Email           | lynnsvec@frontier.com                                   |
| Prepared by     | Lynn Culp, Kyle Makovsky, Roy Mink, Silvio<br>Pezzopane |

(2) Well Information

Well No. SVE #2

DOGAMI ID No. 36-037-90027 Lake 1628

NUV 2 3 2020

General Manager

OWRD

5/29/2012

Date

Signature

Title

2) Well Cuttings

| Vell Cu | pth  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From    | To   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0       | 40   | Brown clay soil and gravelly sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 40      | 60   | Light brown ash fragments, reddish rhyolite, black basalt, minor calcite/quartz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 60      | 80   | Light brown/grey ash, red rhyolite, black basalt, cinders, rounded grains, black and red cuttings magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 80      | 105  | Light grey/brown ash, red rhyolite, black basalt, rounded grains, chert and obsidian magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 105     | 125  | Light grey/brown ash, red rhyolite, black basalt, rounded grains, purple, orange alteration, green stone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 125     | 155  | Grey/brown ash, red rhyotite, black basalt, rounded grains, black and grey chips magnetic, light tan pumice fragment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 155     | 185  | Grey/brown ash, red rhyplite, black basalt, magnetic, white/grey pumice green stone, minor attenution stains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 185     | 210  | Grey/brown rhyolite, red rhyolite with alteration, black basalt, white/grey pumice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 210     | 245  | Grey/brown rhyolite, red rhyolite, black basalt, light brown pumice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 245     | 300  | Grey/brown rhyolite, red and brown rhyolite, black basalt, pumice, rounded grains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 300     | 340  | Record (grey shoulded w/ some alteration, light grey tuff, black basalt/rhyolite; light grey tuff, relospar crips                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 340     | 360  | L Convillant brown chaptite, dark grey/black rhapite, light red/vellow aftered myotite, some chips rounded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 360     | 410  | Grey/brown rhyolite, dark grey/black basalt, light red/yellow altered myolite, grey/white punite, founded peoples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 410     | 420  | Black basalt, light brown rhyolite, some alteration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 425     | 430  | no data - no returns                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 435     | 460  | Black basalt, light brown/grey rhyolite, red altered rhyolite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 460     | 465  | Fine sand of light brown/grey rhyolite, black basalt/rhyolite; light brown/red altered myolite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 465     | 475  | Light hown/grey rhyolite, black basalt/rhyolite, yellow/red altered myolite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 475     | 490  | Legge amount fine sand, smaller cuttings are same as above with white alteration/pumice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 490     | 510  | Altered tuff, light grey to reddish brown to dark brown, waxy texture, amorphous silica present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 510     | 530  | no data - no returns                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 530     | 565  | Dark to light gray basalt, andesite, white and green alteration minerals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 565     | 620  | I prochagita basalt and andesite inink/dark green/white alteration, opaline quartz, amorphous sinca, calcite monos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 620     | 695  | Dark gray, green, purple, and red basalt, amorphous silica, euhedral quartz, and calcite in vesicles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 695     | 710  | n and a single profession and single and sin |
| 710     | 790  | Gray green and red basalt, altered, fibrous banded white mineral, calcite rhombs, crystalline and opaline quartz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 790     | 800  | Oliving rich basalt, little alteration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 800     | 815  | Description and exite and basalt rock, highly altered, clear crystalline quartz, banded alteration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 815     | 845  | Amygdaloidal basalt, amygdules are green, white banded, botryoidal texture, calcite grains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 845     | 890  | Gray hasalt little to no alteration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 890     | 905  | Vesicular/amygdaloidal basalt, high amount of crystalline quartz filling vesicles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 905     | 920  | Basalt with pyrite mineralization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 920     | 930  | Gray basaltic andesite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 930     | 960  | Gray/red/purple basalt, calcite rhombs, some amygdaloidal calcite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 960     | 1010 | The transport of the state of t |
| 1010    | 1070 | Highly altered vesicular/amygdaloidal basalt, pyrite mineralization, dark green/white/pink alteration minerals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1070    | 1260 | no data - no returns                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 10/0    | 1260 | - Total Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301
(503) 986-0900
www.wrd.state.or.us

RECEIVED

# Application for Well ID Number

NOV 23 2020

RECEIVED BY OWRD

Do not complete if the well already has a well alre

NOV 0 3 2014

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SALEM, OR                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| I. OWNER INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - (SVEC): Atto: Lyon Culo                                                                                      |
| Current Owner Name (please print): Suprise Valley Electrification Cor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | p. (34EO), Alui. Eyiii Odip                                                                                    |
| Mailing Address: 516 US Highway 395 E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |
| City, State, Zip: Alturas, CA, 96101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |
| Mail Well ID Tag to: SAME AS ABOVE In Care O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ·                                                                                                              |
| Name & Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |
| City, State, Zip:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |
| II. WELL LOCATION INFORMATION (Please fill out as comp.  Township: 33S (North / South) Range: 18E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | oletely as possible)  (Fast / West) Section: 23                                                                |
| 1200 a . laké                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5vv 1/4 Ottle NE 1/4                                                                                           |
| Tax Lot: County | KE 52529 - but does not have ID number                                                                         |
| GPS Coordinates: all eady assigned a SVVIS Woll 25g VENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                |
| Street Address of Well, City:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |
| If the property had a different street address in the past:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |
| III. GENERAL WELL INFORMATION (Please fill out as complete Use of Well (domestic, irrigation, commercial, industrial, monitoring): in Date Well Constructed (or property built): Feb 2012 Total Well Owner at time the well was constructed (if known): SVEC is well owner Other Information: Well Name: SVE-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ndustrial/geothermal & irrigation  Casing Diameter: 13 3/8 "                                                   |
| SUBMITTED BY (please print): Lynn Culp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |
| PHONE: (530) 233-3511 EMAIL &/or FAX: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | /nnsvec@frontier.com                                                                                           |
| Send application to: Oregon Water Resources Department 725 Summer S 0902. Applications are processed in the order they are received, and Wel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | it NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-<br>1 ID Numbers are mailed within 4-5 business days. |

For Official Use Only by the Oregon Water Resources Department:

Well Log Number:

Well Log Number:

Well Identification #:

LAKE 53.52.9

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion. APR 7 1964 TATE OF STATE ENGINEER

(1) OWNER:

Name Ross Colohan

SALEM, DREGON

| OREGON State Well No. 3                                                                                                                                                       | 3/18                                | -23                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------|
| State Permit No.                                                                                                                                                              |                                     |                                        |
| (11) WELL TESTS: Drawdown is amount v                                                                                                                                         | vater level                         | l is                                   |
| Was a pump test made? Was in No If yes, by whom                                                                                                                               | 376]                                |                                        |
| Yield: 150 gal./min. with 85 ft. drawdow.                                                                                                                                     | -                                   | hrs.                                   |
| Heid. 150 gar,/min. vich 05 it. diawdow.                                                                                                                                      |                                     | 11                                     |
| £1 00 78                                                                                                                                                                      |                                     | **                                     |
| Bailer test gal./min, with ft. drawdow                                                                                                                                        | m after                             | hrs.                                   |
| Artesian flow K.p.m. Date                                                                                                                                                     | n arter                             |                                        |
| Temporature of water 104 Was a chemical analysis r                                                                                                                            | nade? 🔲 🤊                           | res 🖔 No                               |
| (12) WELL LOG: Diameter of well below to                                                                                                                                      | sing                                | }                                      |
| Depth drilled 315 ft. Depth of completed w                                                                                                                                    | eli 315                             | <u>ft.</u>                             |
| Formation: Describe by color, character, size of materia<br>show thickness of aquifers and the kind and nature of i<br>stratum penetrated, with at least one entry for each c | l and stru<br>he materi<br>hange of | cture, and<br>al in each<br>formation. |
| MATERIAL                                                                                                                                                                      | FROM                                | то                                     |
| soil zone, gravelly                                                                                                                                                           | 0                                   | 3                                      |
| loose gravel and sand, med.                                                                                                                                                   | 3                                   | 11                                     |
| clay&sand, brown                                                                                                                                                              | 11                                  | 35                                     |
| volcanic gravel & clay, brr                                                                                                                                                   | 35                                  | 92                                     |
| gravel, med seepage of wat                                                                                                                                                    |                                     | 94                                     |
| gravel & clay, brn.                                                                                                                                                           | 94                                  | 110                                    |
| med gravel & brn.                                                                                                                                                             | 110                                 | 112_                                   |
| hard-packed sand and clay.                                                                                                                                                    | 11.2                                | 118                                    |
| soft sandy clay, brown                                                                                                                                                        | 118                                 | 121                                    |
| sticky clay & gravel, brn.                                                                                                                                                    | 121                                 | 124                                    |
| loose gravel, fine waterbe                                                                                                                                                    | 124                                 | 125                                    |
| houlders & clay, gray                                                                                                                                                         | 125                                 | 159                                    |
| sandy clay brown                                                                                                                                                              | 159                                 | 176                                    |
| fine gravel, waterbearing                                                                                                                                                     | 176                                 | 182                                    |
| sticky clay & gravel, gray                                                                                                                                                    | 182                                 | 194                                    |
| fine sand white waterbe                                                                                                                                                       | 194_                                | 199                                    |
| clay & gravel, brn.                                                                                                                                                           | 199                                 | 220                                    |
| fine sand wht & pink, wat                                                                                                                                                     | 220_                                | 225                                    |
| sandy clay & gravel fine                                                                                                                                                      | 225                                 | 230                                    |
| med gravel waterbearing                                                                                                                                                       | 230                                 | 234                                    |
| sticky clay, brn.                                                                                                                                                             | 234                                 | 298_                                   |
| hasalt rock w/ clay string-                                                                                                                                                   |                                     |                                        |
| ers brown                                                                                                                                                                     | 298_                                | 315                                    |
| ·                                                                                                                                                                             |                                     | <u> </u>                               |
| Work started 3/7/64 19 . Completed 4/                                                                                                                                         | <u>5/</u>                           | 1964                                   |
| Date well drilling machine moved off of well 4/                                                                                                                               | 4                                   | 1964                                   |
| (13) PUMP:                                                                                                                                                                    |                                     |                                        |
| Manufacturer's Name                                                                                                                                                           | *****                               | ************************************** |
| Туре:                                                                                                                                                                         | I.P                                 |                                        |
| Water Well Contractor's Certification:                                                                                                                                        |                                     |                                        |
| This well was drilled under my jurisdiction true to the best of my knowledge and belief.                                                                                      | and this                            | report is                              |
| NAME Jack Stooksberry, Jr. (Person, firm or corporation)                                                                                                                      | Type or pri                         | nt)                                    |
| Address Route 2, Box 47 Lakevi                                                                                                                                                | ew. C                               | re.                                    |
| Drilling Machine Operator's License No                                                                                                                                        | <u>.5</u>                           | ********                               |

Rebury Jr.

Contractor's License No. 211 Date 4/3 , 19.64

| Address Paisley, Oregon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (2) LOCATION OF WELL: County Lake Driller's well number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SW 14 NE 14 Section 23 T. 53S R. 18 E W.M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Bearing and distance from section or subdivision corner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1 miles NW of Paisley, Oregon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RECEIVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NOV 2 3 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (3) TYPE OF WORK (check):  Well 哲 Despening 日 Reconditioning 和 Reconditio |
| (4) PROPOSED USE (check): (5) TYPE OF WELL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Domestic D Industrial D Municipal D Rotary Driven                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Irrigation Test Well   Other   Dug   Bored                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 200 [2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (6) CASING INSTALLED: Threaded  Welded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 16 "Diam. from 0 ft. to 270 ft. Gage 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| "Diam. from ft. to ft. Gage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| " Diam. from ft. to ft. Gage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (7) PERFORATIONS: Perforated? I Yes I No Type of perforator used Mills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Size of perforations 1 in. by 4 in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1400 perforations from 100 ft. to 240 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| perforations from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| perforations from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| perforations from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| perforations from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (8) SCREENS: Well screen installed ☐ Yes 전 No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| " ufacturer's Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Model No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dian, Slot size Set from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Diam, Slot size Set from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| (9) CONSTRUCTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Well seal-Material used in sealpuddled_clay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Depth of seal 22 ft. Was a packer used? NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Diameter of well bore to bottom of seal2_ in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Were any loose strata cemented off? 🖸 Yes 🛣 No 🔻 Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Was a drive shoe used ₹₹X Yes □ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Was well gravel packed? ☐ Yes K No Size of gravel:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gravel placed from ft. to ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Did any strata contain unusable water? 🔲 Yes 🎖 No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Type of water? Depth of strata                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Method of sealing strate off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (10) WATER LEVELS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Static level 83 ft. below land surface Date 4/3/64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Artesian pressure lbs. per square inch Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



Oregon Water Resources Department CEIVED BY OWRD
725 Summer Street NE, Suite A
Salam Oregon 07201 Salem Oregon 97301 (503) 986-0900 www.wrd.state.or.us

### **Application for**

## Well ID Number

SALEM, OR

AUG 1 0 2015

**RECEIVED** 

Do not complete if the well already has a Well Identification Number.

NOV 23 2020

| OWNER INFORMATION                                                                        |                                                                                  | OWRD                                                                                   |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Current Owner Name (please print): Colaha                                                | n Enterprises                                                                    |                                                                                        |
| Mailing Address: PO Box 300                                                              |                                                                                  |                                                                                        |
| City, State, Zip: Paisley, Oregon 97636                                                  |                                                                                  |                                                                                        |
| SAME AS A                                                                                | ABOVE In Care Of (C/O)                                                           |                                                                                        |
| Name & Address: Attn: Lynn Culp, Surpris                                                 | se Valley Electrification Corp. (SVEC);                                          | 516 US Highway 395 E.                                                                  |
| City, State, Zip: Alturas, CA, 96101                                                     |                                                                                  |                                                                                        |
|                                                                                          |                                                                                  | ***                                                                                    |
|                                                                                          | ION (Please fill out as completely as poss                                       |                                                                                        |
| Township: 33S (North / Sou                                                               | •                                                                                | FAL _ NRA!                                                                             |
| Tax Lot: 1300 Cou                                                                        | inty Lake                                                                        | SW 1/4 of the NVV 1/4                                                                  |
| GPS Coordinates:already assigned OWF                                                     | RD well log numbers: LAKE 1628/1626                                              | 352582 - DUCHO ID #                                                                    |
| treet Address of Well, City: > 42.69                                                     | 7274 - 120. 55813                                                                | _ ·                                                                                    |
| f the property had a different street address i                                          | n the past:                                                                      |                                                                                        |
| Use of Well (domestic, irrigation, commercial Date Well Constructed (or property built): | Total Well Depth: Commown): Ross Colahan                                         | rrent 270' Casing Diameter: 16"                                                        |
| Other Information: Well name: Little Hot                                                 |                                                                                  |                                                                                        |
| SUBMITTED BY (please print): Lynn Cul                                                    | p / Surprise Valley Electric Corp.                                               |                                                                                        |
| PHONE: (530) 233-3511                                                                    | EMAIL &/or FAX: lynnsvec@fro                                                     | ontier.com                                                                             |
|                                                                                          | s Department 725 Summer St NE, Suite A<br>they are received, and Well ID Numbers | A, Salem, Oregon 97301; or fax to (503) 986-<br>s are mailed within 4-5 business days. |
|                                                                                          |                                                                                  | 167                                                                                    |
| For Officia                                                                              | l Use Only by the Oregon Water Resource                                          |                                                                                        |
| Received Date:                                                                           | Well Log Number:                                                                 | Well Identification #                                                                  |
| 8-10-15                                                                                  | LAKE 1628 (OR)                                                                   |                                                                                        |
|                                                                                          | LAKE 1626 (DEE                                                                   |                                                                                        |
|                                                                                          | 1 AKE 52582 (A                                                                   | LT.) '                                                                                 |

Last Update: 4/30/14

Well I.D. Number/2

WCC

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

APR 17 1987

|            |                                                  |             |               |            |                 | _                | 110 77 24              |                    |                                                                  |               |
|------------|--------------------------------------------------|-------------|---------------|------------|-----------------|------------------|------------------------|--------------------|------------------------------------------------------------------|---------------|
| (1) O      | WNEI                                             | t:<br>1 oha | n & So        | n          | Owner's         |                  | mber:                  |                    | (9) LOCATION OF WELL by legal description                        | :             |
| Address    | P.O.                                             | Box         |               |            |                 |                  | Children,              | <del>O TEG</del> O | N Township 33S Nor S, Range 18E Eou                              | w wm          |
| Augress Pa | aisely                                           | ,           |               |            | StateO          | reg.             | Zip 97                 | 636                | Section 23 SW 4 NE 4                                             | **, ******    |
|            |                                                  |             |               |            | State           |                  | ыр                     |                    |                                                                  |               |
| (2) T      | YPE C                                            | F W         | DRK:          |            |                 |                  |                        |                    | Tax Lot Block Subdivisio                                         | 1             |
| ☐ New      | Well                                             | Det Det     | pen [         | Recon      | dition          | <u> </u>         | Abandon                |                    | Street Address of Well (or nearest address)                      |               |
| (3) D      | RILL                                             | MET         | HOD:          |            |                 |                  |                        |                    |                                                                  |               |
| Rota       |                                                  |             | otary Mud     |            | Cable           |                  | )ther                  |                    | (10) STATIC WATER LEVEL:                                         |               |
| Las Rota   | ay Au                                            | Iu          | Mary Mou      |            | 00010           |                  |                        |                    | 120 ft. below land surface. Date Man                             | . 18-87       |
|            |                                                  | _           |               |            |                 |                  |                        |                    | Artesian pressurelb. per square inch. Date                       | -             |
| ==         |                                                  |             |               |            |                 |                  |                        |                    |                                                                  |               |
|            | ROPO                                             |             |               | 3          |                 | <b></b>          |                        | •                  | (11) WELL LOG: Ground elevation unknown                          | <del></del>   |
|            |                                                  | Com         |               | Indus      |                 | leri 😿           | gauon                  |                    | Material From To Wi                                              | ? SWL         |
| Ther       |                                                  | ☐ Inje      |               | Other      |                 |                  |                        |                    |                                                                  |               |
| ) B        | ORE E                                            | IOLE        | CONS          | rruc       | TIOI            | V:               | /15                    |                    | Haru Gray Daniel                                                 |               |
|            |                                                  |             |               |            |                 |                  | 415                    |                    | 1122                                                             | _             |
|            |                                                  |             | Speci         |            | ırds date       | of appro         | wal                    |                    | Hard Grey Basalt 331 337<br>Mild Brown Lava 337 339              | -             |
|            | HOLE<br>er From                                  | m. I        | Material      | SEAL       | To              | 1                | Amount<br>sacks or por | -                  | III DI DI ONI                                                    |               |
| net        | er rrom                                          | To          | ptaterial     | From       | !               |                  | sacra or po-           | 41140              | DEGREES AGE                                                      | <u> </u>      |
| Bea        | 306                                              | 430         | XXX           | not c      | listu           | rbed             |                        |                    | nerd seeder                                                      | _             |
|            | _                                                |             | *****         |            |                 |                  |                        |                    | White Clays 360 375                                              | -             |
|            |                                                  |             |               |            |                 |                  |                        |                    | Brown & Blue Clays 375 430                                       | -             |
|            | A.T                                              |             | od 🗆 A        |            | <u> </u>        |                  | Пъ                     |                    | Brown & Blue Clays 430 432                                       |               |
| How was    | seal place                                       | d? Meth     | od LIA        | Ц В        | шс              | ם ט              | U 5                    |                    |                                                                  |               |
|            |                                                  |             | turbed        |            | +               |                  |                        |                    |                                                                  | $\rightarrow$ |
| Backfill   | placed fror                                      | n           | ft. to        | ft.        | Mat             | erial            |                        |                    |                                                                  | _             |
| -          |                                                  |             | ft. to        | ft.        | Size            | of grave         |                        |                    |                                                                  |               |
| (6) C      | ASIN(                                            | }/LIN       | ER:           |            |                 |                  |                        |                    | DEAGNICE                                                         |               |
|            | Diamete                                          | From        | m To          | Gauge      |                 |                  |                        | _                  | RECEIVED                                                         |               |
| Casing: _  | 8                                                | 1 +2        | 300           | .188       | 120             | Ш                | ×                      |                    |                                                                  | -             |
| _          |                                                  | -           |               | _          |                 |                  |                        |                    | NOV 2/3 2020                                                     |               |
| _          |                                                  | -           |               |            |                 |                  |                        |                    |                                                                  |               |
| -          |                                                  |             |               |            |                 |                  |                        |                    | OWRD                                                             |               |
| Liner:     |                                                  |             |               |            |                 |                  |                        |                    |                                                                  |               |
| _          | •                                                |             |               |            |                 |                  |                        |                    |                                                                  |               |
| - inni loc | ation of sh                                      | oe(s)       |               |            |                 | -                |                        |                    |                                                                  |               |
|            |                                                  |             | ONS/S         |            |                 |                  |                        |                    |                                                                  |               |
| _          |                                                  |             | •             |            |                 | none             |                        |                    |                                                                  |               |
|            | Perforation                                      | ons         | Method        |            |                 |                  |                        |                    |                                                                  |               |
|            | Screens                                          |             | Туре          |            |                 | _ Materi         |                        |                    |                                                                  |               |
| rom        | To                                               | Slo         |               | r Diam     |                 | ele/pipo<br>size | Casing                 | Liner              |                                                                  |               |
|            | 1                                                | 1           |               | 1          |                 |                  |                        |                    |                                                                  |               |
|            | 1                                                |             | 7             |            |                 |                  |                        |                    |                                                                  |               |
|            | <del> </del>                                     |             |               | 1          |                 |                  |                        |                    |                                                                  |               |
|            | <del>                                     </del> | 1           |               |            | $\neg \uparrow$ |                  |                        |                    |                                                                  |               |
|            | †                                                | 1           |               |            |                 |                  |                        |                    |                                                                  | 07            |
|            | 1                                                | ┪           |               |            | _               |                  |                        |                    | Date started Mar. 9-87 Completed Mar. 18=                        | 0/            |
|            |                                                  |             | <u> </u>      |            | 42              | A3               |                        |                    | (unbonded) Water Well Constructor Certification:                 |               |
| (8) W      | YELL'                                            | LEST        | s: Mini       |            |                 | time:            | is 1 hour<br>Flowing   | 3                  | I constructed this well in compliance with Oregon well           | construction  |
|            | Pump                                             |             | Bailer        | X          | Air             |                  | Artesia                |                    | standards. Materials used and information reported above are tri | e to my best  |
| Yield      | gal/min                                          | Pump        | ing level     | Dr         | ill stem        | at               | Time                   |                    | knowledge and helief.                                            |               |
|            |                                                  |             |               |            |                 | _                | ⅓ hr                   |                    | Date Ma                                                          | r. 22-87      |
| 50         |                                                  |             |               | 4          | <u> 15</u>      |                  | 1 hr                   |                    | Oigited Transport                                                |               |
|            |                                                  |             |               |            |                 |                  |                        |                    | (bonded) Water Well Constructor Certification:                   |               |
|            |                                                  |             |               |            |                 |                  |                        |                    | I accept responsibility for construction of this well and its    | compliance    |
| То         | ature of wa                                      | tar -       | 175           | D          | oth Art         | esian Flo        | w Found                |                    | with all Oregon water well standards. This report is true to the | e pest of my  |
|            | ater analys                                      |             |               | By w       |                 | no               | ot dis                 |                    | knowledge and belief.                                            |               |
| TOTAL      | ater analyi                                      | eis unit!   | er not suitab |            |                 |                  | Coo little             |                    | Simple 4-9-                                                      | B7            |
| Did any    | strata con                                       | ı.ı □       | Odor 🗆 C      | , 101 1110 | 7 0+1-          | no               | 1                      |                    | Signed                                                           |               |
|            |                                                  |             | טפטר בבו ל    | oloted r   | _ ome           |                  |                        |                    | Company Orvail Buckner Well Drilling None                        |               |
| Denth o    | f strata:                                        |             |               |            |                 | -                |                        |                    | Company                                                          |               |



Oregon Water Resources Departura ECEIVED BY OWRD
725 Summer Street NE, Suite A Salem Oregon 97301 (503) 986-0900 www.wrd.state.or.us

### **Application for**

## Well ID Number

SALEM, OR

AUG 1 0 2015

**RECEIVED** 

Do not complete if the well already has a Well Identification Number.

NOV 23 2020

| I. OWNER INFORMATION                                                                                                                                                       |                                                                     |                                              | OWRD                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------|
| Current Owner Name (please print): Colah                                                                                                                                   | an Enterprises                                                      |                                              |                                                               |
| Mailing Address: PO Box 300                                                                                                                                                |                                                                     |                                              |                                                               |
| City, State, Zip: Paisley, Oregon 97636                                                                                                                                    |                                                                     |                                              |                                                               |
| Se u est al Sis insurance and a second as a                                                                                                                                | ABOVE In Care Of (                                                  | C/O)                                         | • •                                                           |
| Name & Address: Attn: Lynn Culp, Surp                                                                                                                                      | rise Valley Electrification Com                                     | o. (SVEC); 516 US                            | Highway 395 E.                                                |
| City, State, Zip: Alturas, CA, 96101                                                                                                                                       |                                                                     |                                              |                                                               |
| City, State, Zip.                                                                                                                                                          |                                                                     |                                              |                                                               |
|                                                                                                                                                                            |                                                                     | . 1                                          |                                                               |
| II. <u>WELL LOCATION INFORMA</u>                                                                                                                                           | <u>TION</u> (Please fill out as comple                              | tely as possible)                            | a 23                                                          |
| Township: 33S (North / Se                                                                                                                                                  |                                                                     | (East / West)<br>SW                          |                                                               |
| Tax Lot: 1300 Co                                                                                                                                                           | ounty Lake                                                          |                                              |                                                               |
| GPS Coordinates:already assigned OV                                                                                                                                        | VRD well log numbers: LAKE                                          | 1628/1626/52582 -                            | DUL NO ID #                                                   |
| GPS Coordinates: alleady assigned over Street Address of Well, City: > 42.6                                                                                                | 97274 - 120.55                                                      | 5813                                         |                                                               |
| If the property had a different street address                                                                                                                             | s in the past:                                                      |                                              |                                                               |
| Use of Well (domestic, irrigation, commerce Date Well Constructed (or property built):  Owner at time the well was constructed (if Other Information: Well name: Little Ho | known): Ross Colahan                                                | Depth: current 270                           | Casing Diameter: 16"                                          |
|                                                                                                                                                                            |                                                                     |                                              |                                                               |
| SUBMITTED BY (please print): Lynn C                                                                                                                                        | ulp / Surprise Valley Electric C                                    | Corp.                                        |                                                               |
| PHONE: (530) 233-3511                                                                                                                                                      | EMAIL &/or FAX: lyn                                                 | nsvec@trontier.com                           | 1,                                                            |
| Send application to: Oregon Water Resource 0902. Applications are processed in the or                                                                                      | ces Department 725 Summer St I<br>der they are received, and Well I | NE, Suite A, Salem, (<br>D Numbers are maile | oregon 97301; or fax 10 (503) 986-d within 4-5 business days. |
| For Office                                                                                                                                                                 | ial Use Only by the Oregon Wat                                      | er Resources Departs                         | nent:                                                         |
| Received Date:                                                                                                                                                             | Well Log Num                                                        | ber:                                         | Well Identification #                                         |
| 8-10-15                                                                                                                                                                    | LAKE 16                                                             | 28 (ORIG.)                                   | L-119826                                                      |
|                                                                                                                                                                            | LAKE 16                                                             | 26 (DEEP.)                                   |                                                               |
|                                                                                                                                                                            | LAKE 52                                                             | 582 (ALT.)                                   |                                                               |

Last Update: 4/30/14

Well I.D. Number/2

WCC

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



| WELL LABEL # L |        |
|----------------|--------|
|                |        |
| START CARD #   | 209512 |

| (1) LAND OWNER Owner Well I.D. 33/18-23G                                                           | (9) LOCATION OF WELL (legal description)                                                                                                                      |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First Name Ross Last Name Colhan                                                                   | County LAKE Twp 33 S N/S Range 18 E E/W WM                                                                                                                    |
| Company                                                                                            | Sec 33 SW 1/4 of the NE 1/4 Tax Lot 1300                                                                                                                      |
| Address 38650 HWY 31                                                                               | Tax Map Number Lot                                                                                                                                            |
| City Paisley State Or Zip 97636                                                                    | Lat OMS or DD                                                                                                                                                 |
| (2) TYPE OF WORK New Well Deepening Conversion                                                     | Long OMS or DD                                                                                                                                                |
| Alteration (repair/recondition) Abandonment                                                        | Street address of well Nearest address                                                                                                                        |
| (3) DRILL METHOD                                                                                   | 1-1/2 miles NW of Paisely, Oregon                                                                                                                             |
| Rotary Air Rotary Mud Auger Cable Mud Reverse Rotary Other                                         | (10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)                                                                                                               |
|                                                                                                    | Existing Well / Predeepening                                                                                                                                  |
| (4) PROPOSED USE Domestic Community                                                                | Completed Well                                                                                                                                                |
| Industrial/Commercial Livestock Dewatering                                                         | Flowing Artesian? Dry Hole?                                                                                                                                   |
| Thermal Injection Other                                                                            | WATER BEARING ZONES Depth water was first found                                                                                                               |
| (5) BORE HOLE CONSTRUCTION Special Standard Attach copy                                            | SWL Date From To Est Flow SWL(psi) + SWL(ft)                                                                                                                  |
| Depth of Completed Wellft.                                                                         | ▎┞ <del>┈┈┈╎┈┈┆</del> ┈┈┤                                                                                                                                     |
| BORE HOLE SEAL Sacks/                                                                              |                                                                                                                                                               |
| Dia From To Material From To Amt lbs                                                               |                                                                                                                                                               |
| West Court 0 33 35                                                                                 |                                                                                                                                                               |
|                                                                                                    | an well loc                                                                                                                                                   |
|                                                                                                    | (11) WELL LOG Ground Elevation                                                                                                                                |
| How was seal placed: Method A B C D E                                                              | Material From To                                                                                                                                              |
| Other                                                                                              | Remare original puddier                                                                                                                                       |
| Backfill placed from ft. to ft. Material  Filter nack from ft. to ft. Material Size                | Clay seal with overshot                                                                                                                                       |
|                                                                                                    |                                                                                                                                                               |
| Explicatives does.                                                                                 | replace with Ju" comer                                                                                                                                        |
| (6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd                               | sent to 23                                                                                                                                                    |
| Casing Ellici Sie i Holl to Gaege Sa Has We                                                        |                                                                                                                                                               |
|                                                                                                    |                                                                                                                                                               |
|                                                                                                    | - RECEIVED                                                                                                                                                    |
|                                                                                                    | - NEVELVED                                                                                                                                                    |
|                                                                                                    | MOV 9.9 2020                                                                                                                                                  |
| Shoe Inside Outside Other Location of shoe(s)                                                      | 2020                                                                                                                                                          |
| Temp casing Yes Dia From To                                                                        | 011175                                                                                                                                                        |
| (7) PERFORATIONS/SCREENS                                                                           | OWRD                                                                                                                                                          |
| Perforations Method                                                                                |                                                                                                                                                               |
| Screens Type Material                                                                              |                                                                                                                                                               |
| Perf/S Casing/Screen Scm/slot Slot # of Tele/ creen Liner Dia From To width length slots pipe size | Date Started 0.30.14 Completed 7-30.14                                                                                                                        |
|                                                                                                    | (unbonded) Water Well Constructor Certification                                                                                                               |
|                                                                                                    | I certify that the work I performed on the construction, deepening, alteration, or                                                                            |
|                                                                                                    | abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to     |
|                                                                                                    | the best of my knowledge and belief.                                                                                                                          |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                     | License Number Date                                                                                                                                           |
|                                                                                                    | Password : (if filing electronically)                                                                                                                         |
| O tame                                                                                             | Signed                                                                                                                                                        |
| Yield gal/min Drawdown Drill stem/Pump depth Duration (nr)                                         | (bonded) Water Well Constructor Certification                                                                                                                 |
|                                                                                                    | I accept responsibility for the construction, deepening, alteration, or abandonment                                                                           |
| BECENCE DV OWS                                                                                     | work performed on this well during the construction dates reported above. All work                                                                            |
| Temperature °F Lab analysis FECEIVED BY OWRD                                                       | performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief. |
| Water quality concerns? Yes (describe below)                                                       |                                                                                                                                                               |
| From To Description V 1 8 ZUI4                                                                     | License Number Q Q Date V - Q - 14  Password : (if filing electronically)                                                                                     |
|                                                                                                    | Signed (00) (00)                                                                                                                                              |
|                                                                                                    | Signed (1) Contact Info (optional)                                                                                                                            |
| SALEMOR                                                                                            |                                                                                                                                                               |

# WATER SUPPLY WELL REPORT Continuation page

### **LAKE 52582**

| (5) BORE HOLE CONSTRUCTION (10) STATIC WATER LEVEL                                                                                                                   |                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
|                                                                                                                                                                      |                                                    |
| BURE HOLE SEAL Sacks/ Water Benning Zones                                                                                                                            |                                                    |
| Dia From To Material From To Amt lbs                                                                                                                                 |                                                    |
|                                                                                                                                                                      | t Flow SWL(psi) + SWL(ft)                          |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      | <del></del>                                        |
|                                                                                                                                                                      |                                                    |
| FILTER PACK                                                                                                                                                          |                                                    |
| From To Material Size                                                                                                                                                |                                                    |
|                                                                                                                                                                      | <del>-                                      </del> |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
| (11) WELL LOG                                                                                                                                                        |                                                    |
| (6) CASING/LINER                                                                                                                                                     | France Tr.                                         |
| Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd                                                                                                                  | From To                                            |
| Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd                                                                                                                  |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      | <del></del>                                        |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      | <del></del>                                        |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
| (7) PERFORATIONS/SCREENS                                                                                                                                             |                                                    |
| Perf/S Casing/ Screen Scrn/slot Slot # of Tele/                                                                                                                      |                                                    |
| creen Liner Dia From To width length slots pipe size                                                                                                                 | 1212-12121                                         |
|                                                                                                                                                                      |                                                    |
| RECEI                                                                                                                                                                | VED                                                |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
| NUV Z 3                                                                                                                                                              | 2021                                               |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
| OWF                                                                                                                                                                  | (D)                                                |
| OWF                                                                                                                                                                  |                                                    |
| OWF                                                                                                                                                                  |                                                    |
| OWF                                                                                                                                                                  |                                                    |
|                                                                                                                                                                      |                                                    |
|                                                                                                                                                                      |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour                                                                                                                       |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Comments/Remarks                                         |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Comments/Remarks  Water Quality Concerns                 |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Comments/Remarks                                         |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Comments/Remarks  Water Quality Concerns                 |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Water Quality Concerns From To Description Amount Units  |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Comments/Remarks  Water Quality Concerns                 |                                                    |
| (8) WELL TESTS: Minimum testing time is 1 hour  Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)  Water Quality Concerns  From To Description Amount Units |                                                    |



Oregon Water Resources Departure CEIVED BY OWRD
725 Summer Street NE, Suite A Salem Oregon 97301 (503) 986-0900 www.wrd.state.or.us

### **Application for**

### Well ID Number

SALEM, OR

AUG 1 0 2015

REULIZED

Do not complete if the well already has a Well Identification Number.

NOV 23 2020

| I. OWNER INFORMATION                                                                                                                                                                                         |                                                                                                  | OWRD                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Current Owner Name (please print): Colah                                                                                                                                                                     | an Enterprises                                                                                   |                                                    |
| Mailing Address: PO Box 300                                                                                                                                                                                  |                                                                                                  |                                                    |
| City, State, Zip: Paisley, Oregon 97636                                                                                                                                                                      |                                                                                                  |                                                    |
| NA II TU-II TO TO- AND AS                                                                                                                                                                                    | ABOVE In Care Of (C/O)                                                                           |                                                    |
| Name & Address: Attn: Lynn Culp, Surp                                                                                                                                                                        | rise Valley Electrification Corp. (SVEC); 516 L                                                  | JS Highway 395 E.                                  |
| City, State, Zip: Alturas, CA, 96101                                                                                                                                                                         |                                                                                                  |                                                    |
|                                                                                                                                                                                                              | -                                                                                                |                                                    |
| Township: 33S (North / Se                                                                                                                                                                                    |                                                                                                  |                                                    |
| Tax Lot: 1300 Co                                                                                                                                                                                             | Dunty Lake SW                                                                                    | 1/4 of the NW 1/4                                  |
| GPS Coordinates:already assigned OV                                                                                                                                                                          | VRD well log numbers: LAKE 1628/1626/5258                                                        | 2 - BUT NO 1D #                                    |
| Street Address of Well, City: > 42.6                                                                                                                                                                         | 97274 - 120.55813                                                                                |                                                    |
| If the property had a different street address                                                                                                                                                               | in the past:                                                                                     |                                                    |
| III. GENERAL WELL INFORMAT  Use of Well (domestic, irrigation, commerce  Date Well Constructed (or property built):  Owner at time the well was constructed (if it  Other Information: Well name: Little Hol | known): Ross Colanan                                                                             | n pending for industrial  70' Casing Diameter: 16" |
| SUBMITTED BY (please print): Lynn Co                                                                                                                                                                         | ulo / Surprise Valley Electric Corp.                                                             |                                                    |
| PHONE: (530) 233-3511                                                                                                                                                                                        | EMAIL &/or FAX: lynnsvec@frontier.c                                                              | om                                                 |
| G. J. and Continue to Connect Water Descurre                                                                                                                                                                 | tes Department 725 Summer St NE, Suite A, Salender they are received, and Well ID Numbers are ma | L Oregon 97301; or fax to (503) 986-               |
| ForOtto                                                                                                                                                                                                      | ial Use Only by the Oregon Water Resources Depa                                                  | rtment:                                            |
| Received Date: 8-10-15                                                                                                                                                                                       | Well Log Number:  LAKE 1628 (ORIG.)  LAKE 1626 (DEEP.)                                           | Well Identification #:<br>L-119826                 |
|                                                                                                                                                                                                              | 1 E1597 (A)-):                                                                                   | A.                                                 |

LAKE 52582 (ALT.)

Well I.D. Number/2

NOV 2 3 2020

OWRD

**LAND USE FORM** 

### **Land Use Information Form**



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

| Applicant | A | p | ρl | ic | a | n | ŧ |
|-----------|---|---|----|----|---|---|---|
|-----------|---|---|----|----|---|---|---|

| AME                | E. (000 00         | ana lua /i                | Enni Dolici                                  | 46        |                                 |                                |                               |                                | IE (HM)<br>943-3280 |                          |
|--------------------|--------------------|---------------------------|----------------------------------------------|-----------|---------------------------------|--------------------------------|-------------------------------|--------------------------------|---------------------|--------------------------|
|                    |                    | ISES, INC./               | ERIN DOUGL                                   |           | <br>ELL                         |                                |                               | FAX                            | 713 3200            |                          |
| HONE (WI           |                    |                           |                                              | -         | 41 <u>-410-496</u>              | 8                              |                               |                                |                     |                          |
| DDRESS             |                    |                           |                                              |           |                                 |                                |                               |                                |                     |                          |
| 5190 Hw            | Y31                |                           |                                              | STATE     | ZIP                             | E-MAIL                         | *                             | <u> </u>                       |                     |                          |
| AISLEY             |                    |                           |                                              | OR        | 97636                           |                                | ongo@hot                      | mail.com                       |                     |                          |
| ease incl          | <li>d) and/or</li> | ollowing in               | veloped. Ap                                  | plicants  | for municip                     | oal use, or u                  | rrigation uses                | aken from its<br>within irriga | ition district      | aveyed<br>s may          |
| bstitute 6         | xisting ar         | nd propose                | d service-are                                | a bound   |                                 |                                | ormation req                  | uested below.                  |                     | Proposed                 |
| Cownship           | Range              | Section                   | 1/4 1/4                                      | Tax Lot#  |                                 | nation (e.g.,<br>lential/RR-5) |                               | Water to be:                   |                     | Land Use:                |
| 33S                | 18E                | 13                        | SW SW                                        | 203       |                                 |                                | ☐ Diverted                    | Conveyed                       | ⊠ Used              |                          |
| 33S                | 18E                | 14                        | SE SE                                        | 801       |                                 |                                | ☐ Diverted                    | Conveyed                       | ⊠ Used              |                          |
| 338                | 18E                | 23                        | NE NW                                        | 802       |                                 |                                | Diverted                      | ☐ Conveyed                     | ⊠ Used              | Supplemental             |
| 338                | 18E                | 23                        | NE ¼;<br>SE NW;<br>NE SW;<br>NW SW;<br>NE SW | 1300      |                                 |                                | ☑ Diverted                    | ⊠ Conveyed                     | ☑ Used              | Irrigation               |
| 338                | 18E                | 24                        | NW NW<br>SW NW                               | 1300      |                                 |                                | ☐ Diverted                    | ☐ Conveyed                     | ⊠ Used              |                          |
| aisley; La         | ake Count          | у                         |                                              | roposed   | to be divert                    | ed, convey                     | ed, and/or us                 | ed or develop                  |                     | RECEIV<br>NOV 23 20      |
| ype of ap Permit t | nlication          | to be filed<br>fore Water | sed Use with the Wa Water Alloca             | Right Tra | urces Depainsfer<br>onserved Wa | ☐ Pen                          | nit Amendmei<br>hange of Wate | nt or Groundwa                 | nter Registrat      | OWRD<br>ion Modification |
| ource of           | water:             | Reservoir/                | Pond 🛛                                       | Groundw   | ater                            | Surface \                      | Water (name)                  | -                              |                     |                          |
| stimated           | guantity (         | of water ne               | eded: <u>745</u>                             |           |                                 | cubic fee                      | t per second                  | ⊠ gallons pe                   | r minute            | acre-fee                 |
|                    | se of wate         | er: 🛭 Irri                |                                              | ☐ Comm    | ercial<br>Municipal             | ☐ Indust                       | _                             | Domestic for Other             | house               | ehold(s)                 |
| Briefly de         | ecribe:            |                           |                                              |           |                                 |                                |                               | nere the prima                 |                     |                          |

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.

3



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 bel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ow and p                                    | rovide the requested                                                                    | <u>informatio</u>                              | <u>on</u>                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------|
| Land uses to be served by the proposed water regulated by your comprehensive plan. Cite a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | uses (includ<br>pplicable or                | ling proposed construction) dinance section(s): Hole                                    | are allowed                                    | outright or are not                              |
| □ Land uses to be served by the proposed water<br>approvals as listed in the table below. (Please<br>already been obtained. Record of Action/land<br>have been obtained but all appeal periods.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | uses (includ<br>attach docu<br>luse decisio | ling proposed construction)<br>mentation of applicable lan<br>n and accompanying findin | involve disc<br>d use approv<br>gs are suffici | retionary land use<br>als which have             |
| Type of Land Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             | st Significant, Applicable Plan                                                         | [.ar                                           | d Use Approval                                   |
| Conditional tise permits, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                                                                         | ☐ Obrained ☐ Denied                            | ☐ Being Pursued ☐ Not Being Pursued              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                                                                         | ☐ Obtained ☐ Denied                            | ☐ Being Pursued ☐ Not Being Pursued              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                                                                         | Obtained Denied                                | ☐ Being Pursued ☐ Not Being Pursued              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                                                                         | Obtained Denied                                | ☐ Being Pursued ☐ Not Being Pursued              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                                                                         | Obtained Denied                                | ☐ Being Pursued ☐ Not Being Pursued              |
| Local governments are invited to express special Department regarding this proposed use of water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | r below, or o                               | n a separate sheet.                                                                     | TITLE                                          |                                                  |
| SIGNATURE O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             | PHONE:                                                                                  | DATE:                                          | 22 May 2020                                      |
| A STATE OF THE STA |                                             | PHONE: 541-947-6030                                                                     | e                                              | 22 May 2020                                      |
| GOVERNMENT ENTITY LAKE CON-TY Promise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dem.                                        |                                                                                         | 70 0                                           |                                                  |
| Note to local government representative: Plea you sign the receipt, you will have 30 days from Use Information Form or WRD may presume the comprehensive plans.  Receipt for F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | the Water F<br>e land use as                | lesources Department's noti                                                             | ce date to re<br>use of water                  | turn the completed Land is compatible with local |
| Applicant name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                           |                                                                                         |                                                |                                                  |
| City or County:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             | Staff contact:                                                                          |                                                |                                                  |

Phone: \_\_\_\_\_ Date: \_\_\_\_\_

### **NRCS SOIL DESCRIPTIONS**

**RECEIVED** 

NOV 2 3 2020

**OWRD** 

RECEIVED

NOV 23 2020

### Characteristics of the Deter Soil

Position on landscape: Lake terraces

Parent material: Kind-alluvium, lacustrine sediment;

source—tuff, basalt, diatomite

Elevation: 4,700 to 5,000 feet

Climatic factors:

Mean annual precipitation—14 to 18 inches Mean annual air temperature—45 to 48 degrees F Frost-free period—70 to 110 days

Typical profile:

0 to 7 inches—very dark brown loam

7 to 19 inches—dark brown clay loam

19 to 34 inches—dark reddish brown clay

34 to 46 inches—reddish brown gravelly clay

46 to 60 inches—dark brown gravelly clay loam

Depth class: Very deep (more than 60 inches) to bedrock

Drainage class: Well drained

Permeability: Slow

Available water capacity: About 8 inches

Hazard of erosion: By water—moderate; by wind—slight or moderate

Shrink-swell potential: High between depths of 7 and 46 inches

### Contrasting Inclusions

- Drews and Drewsgap soils that are on adjacent lake terraces
- Oxwall soils that are on adjacent, higher lying lake terraces and have low sagebrush in the potential plant community
- Salisbury soils that are on adjacent, higher lying lake terraces
- Soils that are similar to the Deter soil but have a hardpan or bedrock at a depth of 40 to 60 inches

### Major Uses

Cropland, livestock grazing

### Major Management Factors

Slope, water erosion, permeability, shrink-swell potential

### Dominant Vegetation in Potential Plant Community

Idaho fescue, antelope bitterbrush, bluebunch wheatgrass

### Livestock Grazing

General management considerations:

- The surface layer is saturated following snowmelt because of the slow permeability of the subsoil.
- The clayey subsoil restricts rooting depth.

### OWRD

Suitable management practices:

- If this unit is seeded, select plants that tolerate shrinking and swelling.
- Seed on the contour or across the slope where practical.
- Delay grazing until the surface layer is firm and the preferred forage plants have achieved sufficient growth to withstand grazing pressure.
- Minimize the risk of erosion by preserving existing plant cover, seeding, accumulating litter on the surface, and maintaining adequate plant cover.

#### Cropland

General management considerations:

- Because of the limited precipitation, continuous cropping is suitable only if the soil is irrigated. A suitable cropping system includes small grain and summer fallow.
- Because of the slope, this soil is best suited to sprinkler irrigation.
- Because of the high corrosivity to uncoated steel, protection from corrosion or use of noncorrosive material, such as concrete, aluminum, galvanized steel, or plastics, is needed for structures or pipelines.
- Irrigation water management is needed to prevent the buildup of a perched water table and to minimize erosion.
- A wide variety of trees and shrubs can be used for windbreaks and environmental plantings on this soil.
- The seedling mortality rate is severe because the high content of clay causes moisture stress.
- Cultivation or application of herbicides helps to control competing vegetation.

### Suitable management practices:

- Irrigate during the dry period in summer.
- Use minimum tillage and return crop residue to the soil to increase the water intake rate and reduce soil compaction.
- Reduce the risk of erosion by chiseling stubble fields on the contour or across the slope in fall.

# 65B—Deter loam, low precipitation, 0 to 5 percent slopes

### Composition

Deter soil and similar inclusions—85 percent Contrasting inclusions—15 percent

### Characteristics of the Deter Soil

Position on landscape: Lake terraces
Parent material: Kind—alluvium, lacustrine sediment;
source—tuff, basalt, diatomite

NOV 23 2020

### **OWRD**

Elevation: 4,700 to 5,000 feet Climatic factors:

Mean annual precipitation—10 to 14 inches Mean annual air temperature—45 to 48 degrees F Frost-free period—70 to 110 days

Typical profile:

0 to 7 inches—very dark brown loam 7 to 19 inches—dark brown clay loam

19 to 34 inches—dark reddish brown clay

34 to 46 inches—reddish brown gravelly clay

46 to 60 inches—dark brown gravelly clay loam

Depth class: Very deep (more than 60 inches) to bedrock

Drainage class: Well drained

Permeability: Slow

Available water capacity: About 8 inches
Hazard of erosion by water: Slight or moderate
Shrink-swell potential: High between depths of 7 and 46 inches

#### Contrasting Inclusions

- Mesman soils that are on adjacent, lower lying lake terraces
- Harriman soils that are on adjacent lake terraces
- Lasere soils that are on adjacent hills and have low sagebrush in the potential plant community
- McConnel soils that are on adjacent, lower lying gravelly lake terraces
- Soils that are similar to the Deter soil but have a hardpan or bedrock at a depth of 40 to 60 inches

#### Major Uses

Cropland, livestock grazing

### Major Management Factors

Permeability, shrink-swell potential, droughtiness, water erosion

### Dominant Vegetation in Potential Plant Community

Bluebunch wheatgrass, Idaho fescue, antelope bitterbrush

#### Livestock Grazing

General management considerations:

- The clayey subsoil restricts rooting depth.
- The low precipitation limits forage production and seedling survival.

Suitable management practices:

- If this unit is seeded, select plants that tolerate droughtiness and shrinking and swelling.
- Seed on the contour to reduce the risk of erosion.
- Delay grazing until the surface layer is firm and the

preferred forage plants have achieved sufficient growth to withstand grazing pressure.

### Cropland

General management considerations:

- Because of the limited precipitation, continuous cropping is suitable only if the soil is irrigated.
- Suitable irrigation methods include border and sprinkler systems.
- If border irrigation is used, leveling is needed for uniform application of water.
- To avoid exposing the subsoil, land smoothing that involves only shallow cuts is best suited.
- Because of the high corrosivity to uncoated steel, protection from corrosion or use of noncorrosive material, such as concrete, aluminum, galvanized steel, or plastics, is needed for structures or pipelines.
- Irrigation water management is needed to prevent the buildup of a perched water table and to minimize runoff.
- A wide variety of trees and shrubs can be used for windbreaks and environmental plantings on this soil.
- The seedling mortality rate is severe because the high content of clay causes moisture stress.
- Cultivation or application of herbicides helps to control competing vegetation.

Suitable management practices:

- · Irrigate during the dry period in summer.
- Use minimum tillage and return crop residue to the soil to increase the water intake rate and reduce soil compaction.

# 65C—Deter loam, low precipitation, 5 to 15 percent slopes

#### Composition

Deter soil and similar inclusions—85 percent Contrasting inclusions—15 percent

### Characteristics of the Deter Soil

Position on landscape: Lake terraces

Parent material: Kind—alluvium, lacustrine sediment;

source-tuff, basalt, diatomite

Elevation: 4,700 to 5,000 feet

Climatic factors:

Mean annual precipitation—10 to 14 inches Mean annual air temperature—45 to 48 degrees F Frost-free period—70 to 110 days

Typical profile:

0 to 7 inches—very dark brown loam 7 to 19 inches—dark brown clay loam 19 to 34 inches—dark reddish brown clay

NOV 23 2020

### Contrasting Inclusions

- Pit soils that are on adjacent lake terraces and have dominantly creeping wildrye, Nevada bluegrass, and silver sagebrush in the potential plant community
- Ozamis soils that are on adjacent take terraces and have dominantly alkali sacaton and alkali bluegrass in the potential plant community
- Thunderegg soils that are on adjacent, slightly lower lying lake terraces and have dominantly tufted hairgrass in the potential plant community

### Major Uses

Livestock grazing, wildlife habitat, cropland, hayland

### Major Management Factors

Salinity, sodicity, available water capacity, wetness, frost action

### Dominant Vegetation in Potential Plant Community

Nuttall alkaligrass, inland saltgrass

### Livestock Grazing

General management considerations:

- This unit provides food and cover for wetland wildlife in spring.
- Grazing should be deferred during the period of nesting for waterfowl.
- Grazing when the soil is wet results in compaction and puddling of the surface.
- Salts reduce the amount of water available to plants and restrict seedling survival.
- Excess sodium in the soil results in nutrient imbalances and a caustic root environment.
- Dispersion and crusting of the soil surface reduce infiltration, cause ponding, and restrict seedling emergence and survival.
- The low available water capacity limits forage production and seedling survival.

### Suitable management practices:

- Delay grazing until the soil is adequately drained and is firm enough to withstand trampling by livestock.
- If this unit is seeded, select plants that tolerate wetness, strong sodicity, strong salinity, and frost heaving and that provide cover for nesting waterfowl.

### Cropland and Hayland

General management considerations:

 The concentration of salts and sodium limits the selection and production of hay and pasture plants and other crops.

### **OWRD**

- Removing salts and sodium is difficult unless the soil is drained.
- Irrigation may be needed to meet plant needs and leach salts below the root zone.
- Wetness limits the choice of plants and increases the risk of winterkill.
- A high water table early in spring restricts rooting depth and plant survival.
- The seasonal high water table provides supplemental moisture for plants late in summer and in fall.
- Because of a high potential for frost action, plants are subject to winterkill and other damage.
- The soil ties up large amounts of phosphorus, which limits the amount that is available to plants.
- Because of the high corrosivity to uncoated steel and concrete, protection from corrosion or use of noncorrosive material, such as galvanized steel, aluminum, or plastics, is needed for structures or pipelines.
- Irrigation and drainage are needed if this unit is intensively managed.
- The content of sodium in the soil can be reduced by applying proper amounts of soil amendments. Salts can be leached from the soil by applying good-quality irrigation water.
- Unless proper amounts of soil amendments are applied, removing salts causes dispersion and crusting of the soil surface.
- Irrigation water management is needed to prevent a rise in the level of the water table and the subsequent upward movement of salts and sodium in the soil.
- Drainage is difficult because of the nearly level slope and the lack of outlets.
- Trees and shrubs suitable for windbreaks and environmental plantings are limited, and the seedling mortality rate is severe because of the concentration of salts.

# 153A—McConnel very gravelly sandy loam, 0 to 2 percent slopes

### Composition

McConnel soil and similar inclusions—85 percent Contrasting inclusions—15 percent

### Characteristics of the McConnel Soil

Position on landscape: Lake terraces
Parent material: Kind—alluvium; source—tuff, basalt
Elevation: 4,500 to 4,800 feet
Climatic factors:

Mean annual precipitation—8 to 10 inches

Soil Survey

### OWRD

Mean annual air temperature—47 to 50 degrees F Frost-free period—90 to 110 days

Typical profile:

0 to 10 inches—dark yellowish brown very gravelly sandy loam

10 to 22 inches—brown very gravelly coarse sandy loam

22 to 60 inches—multicolored extremely gravelly loamy coarse sand

Depth class: Very deep (more than 60 inches) to bedrock, shallow or moderately deep (10 to 25 inches) to sand and gravel

Drainage class: Somewhat excessively drained Permeability: Moderately rapid over very rapid Available water capacity: About 2 inches

Hazard of erosion: By water—slight; by wind—slight or moderate

Carbonates: Between depths of 10 and 22 inches strongly effervescent

### Contrasting Inclusions

- Mesman soils that are on adjacent lake terraces and have dominantly basin big sagebrush and some black sagebrush and basin wildrye in the potential plant community
- Zorravista soils that are on adjacent dunes and have fourwing saltbush in the potential plant community
- Deter soils that are on adjacent, slightly higher lying lake terraces and have dominantly bluebunch wheatgrass in the potential plant community
- McNye soils that are on bedrock-controlled lake terraces.
- Soils that have slopes of more than 2 percent

### Major Uses

Livestock grazing, cropland

### Major Management Factors

Gravel, available water capacity, permeability, seepage, wind erosion

### Dominant Vegetation in Potential Plant Community

Indian ricegrass, Thurber needlegrass, Wyoming big sagebrush, needleandthread

#### Livestock Grazing

General management considerations:

- The low precipitation and low available water capacity limit forage production and seedling survival.
- The risk of seepage and the very rapid permeability of the lower part of the soil limit the construction of

livestock watering ponds and other water impoundments.

- This soil is subject to wind erosion if the vegetation is removed or degraded.
- This soil is suited to grazing in winter.
- Range seeding controls blowing and drifting sand.

### Suitable management practices:

- Minimize the risk of wind erosion by maintaining adequate plant cover, seeding, and accumulating litter on the soil surface.
- If this unit is seeded, select plants that tolerate droughtiness.

#### Cropland

General management considerations:

- · Irrigation is needed for crops.
- Because of the very rapid permeability of the lower part of the soil and the rapid water intake rate, sprinkler irrigation is best suited to this soil.
- Because of the low available water capacity, light and frequent applications of irrigation water are needed.
- Gravel in the surface layer causes rapid abrasion of tillage equipment.
- Because of the high corrosivity to uncoated steel, protection from corrosion or use of noncorrosive material, such as concrete, aluminum, galvanized steel, or plastics, is needed for structures or pipelines.
- Trees and shrubs for windbreaks and environmental plantings should be tolerant of droughtiness.
- The seedling mortality rate is severe because of the low available water capacity.
- Continuous cultivation, use of mulch, or application of herbicides helps to control competing vegetation and ensure establishment and survival of seedlings.

#### Suitable management practices:

- Irrigate during the dry period in summer.
- Adjust the application of irrigation water to the available water capacity, the water intake rate, and the needs of the crop grown to avoid overirrigating, control runoff, and prevent leaching of plant nutrients.
- Reduce the risk of wind erosion by planting crops in narrow strips at right angles to the prevailing wind, maintaining crop residue on the surface, and using minimum tillage.

# 153C—McConnel very gravelly sandy loam, 2 to 15 percent slopes

#### Composition

McConnel soil and similar inclusions—85 percent Contrasting inclusions—15 percent



# OWRD GROUNDWATER APPLICATION FEE CALCULATOR



← Main

Help

Return

Contact Us

Today's Date: Friday, April 17, 2020

| Base Application Fee.                                                                                                                                                                                                                                                                                                                                                                                                      |             | \$1,340.00 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|
| Number of proposed cubic feet per second (cfs) to be appropriated. (1 cfs = 448.83 gallons per minute)                                                                                                                                                                                                                                                                                                                     | 1.66        | \$700.00   |
| Number of proposed Use's for the appropriated water. (i.e. Irrigation, Supplemental Irrigation, Pond Maintenance, Industrial, Commercial, etc) *                                                                                                                                                                                                                                                                           | 1           |            |
| Number of proposed groundwater points of appropriation. (i.e. number of wells) (include all injection wells, if applicable) **                                                                                                                                                                                                                                                                                             | 4           | \$1,050.00 |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | Subtotal:   | \$3,090.00 |
| Permit Recording Fee. ***                                                                                                                                                                                                                                                                                                                                                                                                  |             | \$520.00   |
| * the 1st Water Use is included in the base cost.  ** the 1st groundwater point of appropriation is included in the base cost.  *** the Permit Recording Fee is not required when the application is submitted but, must be paid before a permit will be issued. It is fully refundable if a permit is not issued. If the recording fee is not paid prior to issuance of the Final Order, permit issuance will be delayed. | Recalculate |            |
| Estimated cost of Permit Application                                                                                                                                                                                                                                                                                                                                                                                       |             | \$3,610.00 |

RECEIVED

NOV 23 2020

**OWRD** 



21145 Scottsdale DR, Bend, Oregon 97701 360-907-4162 newtonjim@hotmail.com

November 20, 2020



**OWRD** 

Dwight French, Water Right Services Division Administrator **Oregon Water Resources Department** 725 Summer ST NE, Suite A Salem, Oregon 97301

RE: APPLICATION FOR PERMIT TO USE GROUNDWATER; SUPPLEMENTAL GROUNDWATER IRRIGATION FOR INCREASE IN RATE, WITH ZERO DUTY; COLAHAN ENTERPRISES, INC.; PAISLEY, OREGON

Dear Dwight:

This letter has been prepared by Cascade Geoengineering, LLC (CGE) to accompany a new Application for Permit to Use Groundwater (Application) on behalf of Colahan Enterprises, Inc. (Colahan). This Application was discussed with you on several occasions in 2019 to determine the best avenue to submit the Application in an attempt to increase the authorized flow rate from existing Colahan irrigation wells, without an increase in the duty already authorized under other water right certificates. Based on the rapidly or excessively draining soils in the place of use, the increase in flow rate assists Colahan in applying irrigation water that meets crop needs, while also reducing the potential for mineral buildup in the irrigated soils-the Colahan wells have elevated temperatures from geothermal heat sources in the area of Paisley, Oregon

If you have questions regarding this memorandum, please feel free to contact me at your convenience, I can be reached by telephone at 360-907-4162, or email newtonjim@hotmail.com.

Sincerely,

Jim Newton, PE, RG, CWRE Principal – Engineer-Geologist Cascade Geoengineering, LLC

