

T-8537

# CLAIM OF BENEFICIAL USE for Transfer with Multiple Changes - Groundwater



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

A fee of **\$230** must accompany this form for any Transfer final orders including a water right with a priority date of July 9, 1987, or later.  
Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

A separate form shall be completed for each transfer.  
This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: <https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>  
The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).  
Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.  
"Section 7" of this form is intended to aid in the completion of this form and should not be submitted.  
A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.  
If you have questions regarding the completion of this form, please call 503-979-9103.  
The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see: <https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx>

## GENERAL INFORMATION Type of Authorized Change

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YES NOV 12 2021  
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This Claim is being submitted for a transfer involving multiple changes.

Mark all that apply:

- 1.  Change in POA(s) or Additional POA(s)
- 2.  Change in Place of Use
- 3.  Change in Character of Use

A separate section will be completed for each type of change authorized in the transfer final order.

### 1. File Information

APPLICATION #  
**T-8537**

**2. Property Owner (current owner information)**

|   |                        |                                    |                        |
|---|------------------------|------------------------------------|------------------------|
| APPLICANT/BUSINESS NAME<br><b>City of Malin</b> |                        | PHONE NO.<br><b>(541) 723-2021</b> | ADDITIONAL CONTACT NO. |
| ADDRESS<br><b>P.O. Box 61</b>                   |                        |                                    |                        |
| CITY<br><b>Malin</b>                            | STATE<br><b>OREGON</b> | ZIP<br><b>97632</b>                | CITY<br><b>Malin</b>   |

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

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

|  |       |     |
|--|-------|-----|
| TRANSFER HOLDER OF RECORD<br><b>NA</b> |       |     |
| ADDRESS                                |       |     |
| CITY                                   | STATE | ZIP |

**4. Date of Site Inspection:**

|                   |
|-------------------|
| <b>10/27/2021</b> |
|-------------------|

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

| NAME               | DATE              | ASSOCIATION WITH THE PROJECT |
|--------------------|-------------------|------------------------------|
| <b>Rob Grounds</b> | <b>10/27/2021</b> | <b>Public Works</b>          |
|                    |                   |                              |

**6. County:**

|                |
|----------------|
| <b>Klamath</b> |
|----------------|

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

|                              |       |     |
|------------------------------|-------|-----|
| OWNER OF RECORD<br><b>NA</b> |       |     |
| ADDRESS                      |       |     |
| CITY                         | STATE | ZIP |

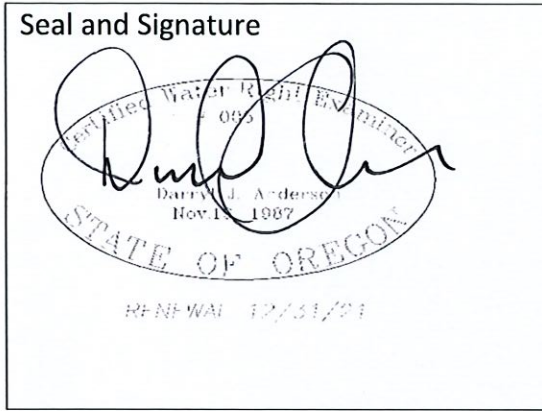
Add additional tables for owners of record as needed

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**SECTION 2  
SIGNATURES**

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



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|                                     |                    |                                  |                         |  |
|-------------------------------------|--------------------|----------------------------------|-------------------------|--|
| CWRE NAME<br><b>Darryl Anderson</b> |                    | PHONE NO.<br><b>541-947-4407</b> | ADDITIONAL CONTACT NO.  |  |
| ADDRESS<br><b>17681 Highway 395</b> |                    |                                  |                         |  |
| CITY<br><b>Lakeview</b>             | STATE<br><b>OR</b> | ZIP<br><b>97630</b>              | CITY<br><b>Lakeview</b> |  |

Transfer Holder of Record Signature or Acknowledgement

**Each** transfer holder of record must sign this form in the space provided below.

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.



| SIGNATURE | PRINT OR TYPE NAME    | TITLE                                 | DATE           |
|-----------|-----------------------|---------------------------------------|----------------|
|           | <b>ROBERT GROUNDS</b> | <b>PUBLIC WORKS<br/>CITY OF MALIN</b> | <b>11-5-21</b> |
|           |                       |                                       |                |
|           |                       |                                       |                |

**SECTION 3**  
**Changes Made**

**Note: The Claim only needs to describe the changes that were authorized in the transfer final order.**

**Change #1**

**Change in POA(s) or Additional POA(s)**

Did the transfer order authorize a change in the points of appropriation or additional points of appropriation? **YES**

*If "NO", this Section can be deleted.*

**1. New or additional point of appropriation name or number:**

| POINT OF APPROPRIATION<br>(POA) NAME OR NUMBER<br>(CORRESPOND TO MAP) | WELL LOG ID # FOR ALL<br>WORK PERFORMED ON THE<br>WELL<br>(IF APPLICABLE) | WELL TAG #<br>(IF APPLICABLE) | SOURCE<br>(IF LISTED IN TRANSFER FINAL<br>ORDER) |
|---|---|-------------------------------|--|
| <b>Well #2 (new poa)</b>  | <b>KLAM 15095</b><br><b>KLAM 15096</b>                                    |                               |  |
| <b>Well #3 (authorized)</b>   | <b>KLAM 15097</b>   |                               | <b>A well in the Lost River Basin</b>            |
| <b>Well #4 (new poa)</b>  | <b>KLAM 51832</b>   | <b>L-29461</b>                |  |

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

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**2. Variations:**

Was the use developed differently from what was authorized by the transfer final order, or extension final?

**YES**

If yes, describe below.

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*(e.g. "The order allowed three new/additional points of appropriation. The water user only developed one of the points.")*

**Well #3 (Authorized) location from the Final Order and from Certificate 90916 has an error on the measured dimensions. Both documents list the location as "846.51 East" and the correct location should read "846.51 West". This correction is shown on this beneficial use map.**

**Well #3 is the original authorized point of appropriation for this transfer, and was also listed as a new additional point of appropriation on this transfer.**

3. Claim Summary:

| NEW OR ADDITIONAL POA NAME OR # | MAXIMUM RATE AUTHORIZED | CALCULATED THEORETICAL RATE BASED ON SYSTEM | AMOUNT OF WATER MEASURED |
|---------------------------------|-------------------------|---|--------------------------|
| Well #2                         | 0.89 cfs                | 0.89 cfs                                    | none                     |
| Well #3                         | 0.89 cfs                | 0.89 cfs                                    | none                     |
| Well #4                         | 0.89 cfs                | 0.89 cfs                                    | None                     |

**System Description**

Are there multiple new or additional Points of Appropriation (POA)? **YES**

If "YES" you will need to copy and complete either Section A or B in this Section for each POA.

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

Well #2 (new)

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**A. POA System Information**

Provide the following information concerning the point of appropriation. Information provided must describe the equipment used to appropriate water from the point of appropriation.

1. Pump Information

| MANUFACTURER | MODEL | SERIAL NUMBER | TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE) | INTAKE SIZE | DISCHARGE SIZE |
|--------------|-------|---------------|--|-------------|----------------|
| Unavailable  | NA    | NA            | Submersible                                | 6"          | 4"             |

2. Motor Information

| MANUFACTURER      | HORSEPOWER |
|-------------------|------------|
| Franklin Electric | 30 hp      |

3. Theoretical Pump Capacity

| HORSEPOWER | OPERATING PSI | LIFT FROM SOURCE TO PUMP<br>*IF A WELL, THE WATER LEVEL DURING PUMPING | LIFT FROM PUMP TO PLACE OF USE | TOTAL PUMP OUTPUT (IN CFS) |
|------------|---------------|--|--------------------------------|----------------------------|
| 30         | 55.75         | 83   | 94                             | 0.89                       |

4. Provide pump calculations:

See Attached

5. Measured Pump Capacity (using meter if meter was present and system was operating)

| INITIAL METER READING | ENDING METER READING | DURATION OF TIME OBSERVED | TOTAL PUMP OUTPUT (IN CFS) |
|-----------------------|----------------------|---------------------------|----------------------------|
| Not Measured          |                      |                           |                            |

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

6. Additional notes or comments related to the system:

NA

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

**Well #3 (authorized)**

**A. POA System Information**

Provide the following information concerning the point of appropriation. Information provided must describe the equipment used to appropriate water from the point of appropriation.

**1. Pump Information**

| MANUFACTURER | MODEL | SERIAL NUMBER | TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE) | INTAKE SIZE | DISCHARGE SIZE |
|--------------|-------|---------------|--|-------------|----------------|
| Unavailable  | NA    | NA            | Submersible                                | 6"          | 4"             |

**2. Motor Information**

| MANUFACTURER | HORSEPOWER |
|--------------|------------|
| Hitachi      | 30 hp      |
|              |            |

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**3. Theoretical Pump Capacity**

| HORSEPOWER | OPERATING PSI | LIFT FROM SOURCE TO PUMP<br>*IF A WELL, THE WATER LEVEL DURING PUMPING | LIFT FROM PUMP TO PLACE OF USE | TOTAL PUMP OUTPUT (IN CFS) |
|------------|---------------|--|--------------------------------|----------------------------|
| 30         | 55.75         | 83   | 94                             | 0.89                       |

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**4. Provide pump calculations:**

|              |
|--------------|
| See Attached |
|--------------|

**5. Measured Pump Capacity (using meter if meter was present and system was operating)**

| INITIAL METER READING | ENDING METER READING | DURATION OF TIME OBSERVED | TOTAL PUMP OUTPUT (IN CFS) |
|-----------------------|----------------------|---------------------------|----------------------------|
| Not Measured          |                      |                           |                            |

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

**6. Additional notes or comments related to the system:**

|  |
|--|
| Well 3 was originally installed with a turbine pump that was proofed in 2011 for Certificate 90916 that was operational for the completion date of the transfer. The pump was replaced in July 2021. |
|--|

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

Well #4 (new)

### A. POA System Information

Provide the following information concerning the point of appropriation. Information provided must describe the equipment used to appropriate water from the point of appropriation.

#### 1. Pump Information

| MANUFACTURER | MODEL | SERIAL NUMBER | TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE) | INTAKE SIZE | DISCHARGE SIZE |
|--------------|-------|---------------|--|-------------|----------------|
| Unavailable  | NA    | NA            | Submersible                                | 6"          | 4"             |

#### 2. Motor Information

| MANUFACTURER      | HORSEPOWER |
|-------------------|------------|
| Franklin Electric | 30 hp      |
|                   |            |

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#### 3. Theoretical Pump Capacity

| HORSEPOWER | OPERATING PSI | LIFT FROM SOURCE TO PUMP<br>*IF A WELL, THE WATER LEVEL DURING PUMPING | LIFT FROM PUMP TO PLACE OF USE | TOTAL PUMP OUTPUT (IN CFS) |
|------------|---------------|--|--------------------------------|----------------------------|
| 30         | 50            | 91   | 0                              | 0.89                       |

#### 4. Provide pump calculations:

See Attached

#### 5. Measured Pump Capacity (using meter if meter was present and system was operating)

| INITIAL METER READING | ENDING METER READING | DURATION OF TIME OBSERVED | TOTAL PUMP OUTPUT (IN CFS) |
|-----------------------|----------------------|---------------------------|----------------------------|
| Not Measured          |                      |                           |                            |

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

#### 6. Additional notes or comments related to the system:

NA

### B. Groundwater Source Information (Well and Sump)

1. Is the appropriation from a dug well (sump)?

NO

**Change #2**

**Change in Place of Use**

Did the transfer order authorize a change in the place of use?

**YES**

*If "NO", this Section can be deleted.*

**1. Claim Summary – Authorized Use:**

If Irrigation or Nursery Use:

| THE # OF ACRES ALLOWED | THE # OF ACRES DEVELOPED |
|------------------------|--------------------------|
| <b>NA</b>              |                          |
|                        |                          |

If the new use(s) was not irrigation or nursery:

| NEW USE(S)           | WAS THE NEW PLACE OF USE DEVELOPED TO THE FULL EXTENT AUTHORIZED UNDER THE ORDER?<br>(INCLUDE THE LOCATION OF THE DEVELOPED PLACE USE ON THE CLAIM MAP) |
|----------------------|---|
| <b>Municipal Use</b> | <b>YES</b>  |
|                      |   |

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**2. Variations:**

Was the use developed differently from what was authorized by the transfer final order? **YES**

If yes, describe below.

*(e.g. "The order authorized a change in place of use for 40 acres. The water user only developed 38 acres.")*

**Place of use is the urban growth boundary of the City of Malin. The place of use listed on the final order lists areas by quarter-quarters. There are several government lots in the urban growth boundary that were not listed on the transfer application that are shown on this map. The area shown on the map with government lots is the same area that is listed on the transfer order.**



**Change #3**

**Change in Character of Use**

Did the transfer order authorize a change in character of use?

**NO**

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## SECTION 4 CONDITIONS

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

**1. Time Limits:**

Describe how the water user has complied with each of the development timelines established in the transfer final order and any extensions of time issued for the transfer:

|                                  | DATE FROM TRANSFER | DATE THE AUTHORIZED CHANGES WERE COMPLETED<br>*THIS DATE MUST FALL BETWEEN THE "ISSUANCE DATE" AND THE "COMPLETENESS DATE"   |
|----------------------------------|--------------------|--|
| ISSUANCE DATE                    | <b>11/29/2016</b>  |  |
| COMPLETENESS DATE FROM ORDER (C) | <b>10/1/2018</b>   | <b>Wells were constructed for other rights. Distribution system was already constructed. Changes were completed in 2008. Well 3 flowmeter was replaced in 2013</b> |

\* MUST BE WITHIN PERIOD BETWEEN TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETE THE CHANGE

2. Is there an extension final order(s)? **NO**

**3. Measurement Conditions:**

a. Does the transfer final order, or any extension final order require the installation of a meter or other approved measuring device? **YES**

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

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b. Has a meter been installed? **YES**

**c. Meter Information**

| POA NAME OR #  | MANUFACTURER      | SERIAL #             | CONDITION (WORKING OR NOT) | CURRENT METER READING    | DATE INSTALLED                |
|----------------|-------------------|----------------------|----------------------------|--------------------------|-------------------------------|
| <b>Well #2</b> | <b>Sensus</b>     | <b>8237588<br/>6</b> | <b>working</b>             | <b>34584306 gal x 10</b> | <b>2011</b>                   |
| <b>Well #3</b> | <b>McCrometer</b> | <b>13-<br/>07167</b> | <b>Working</b>             | <b>000918 gal x 100</b>  | <b>2013<br/>(replacement)</b> |
| <b>Well #4</b> | <b>Onicon</b>     | <b>113299</b>        | <b>Working</b>             | <b>NA</b>                | <b>1999</b>                   |

**4. Recording and reporting conditions**

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

**5. Other conditions required by the transfer final order or extension final order:**

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

b. Was submittal of a ground water monitoring plan required? **NO**

c. Other conditions?

NO

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

|    |
|----|
| NA |
|----|

**SECTION 5  
ATTACHMENTS**

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

| ATTACHMENT NAME             | DESCRIPTION                                       |
|-----------------------------|---|
| COBU Map                    | Claim map   |
| Photos                      | Site photos                                       |
| Well Logs                   | Well logs for Wells 2, 3, and 4                   |
| Worksheet for Pressure Pipe | Pressure pipe calculations for Wells 2, 3, and 4  |
| Pump Calculations           | Theoretical pump capacities for wells 2, 3, and 4 |
|                             |   |

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## SECTION 6

### CLAIM OF BENEFICIAL USE MAP

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

The changes that were authorized under the transfer final order must be mapped based on the developed locations; new or additional points of appropriation and place of use.

In cases where the order involved additional points of appropriation, the additional points should be mapped based on their developed locations. The original points of appropriation should be mapped based on the original right of record at the time the transfer final order was issued.

In cases where the order involved changing the place of use for a portion of a water right, the portion of the place of use being changed should be mapped based on the developed location. If the transfer also included portions of the place of use that were not being modified, but were receiving a new or additional point of appropriation, the place of use for those lands should be mapped based on the original right of record at the time the transfer final order was issued.

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

**Survey performed with Real Time GPS – Corner tie is a mag nail with brass washed located at the west ¼ corner of section 15**

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## Map Checklist

Please be sure that the map you submit includes ALL the items listed below.  
(Reminder: Incomplete maps and/or claims may be returned.)

- Map on polyester film
- Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- Township, Range, Section, Donation Land Claims, and Government Lots
- If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
- Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- Point(s) of diversion or appropriation (illustrated and coordinates)
- Tax lot boundaries and numbers
- Source illustrated if surface water
- Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- Application and permit number or transfer number
- North arrow
- Legend
- CWRE stamp and signature

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STATE ENGINEER  
Salem, Oregon

Klamath  
15095

# Well Record

STATE WELL NO. 41/12-15E2...  
COUNTY Klamath  
APPLICATION NO.

OWNER: Town of Malin MAILING ADDRESS:

LOCATION OF WELL: Owner's No. CITY AND STATE:

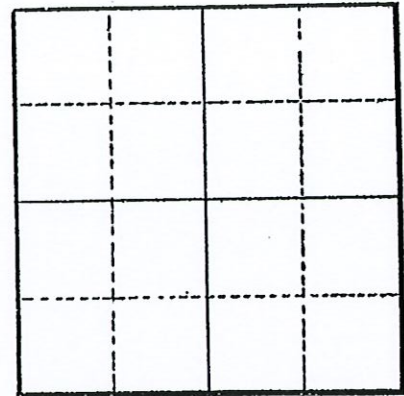
..... 1/4 ..... 1/4 Sec. ..... T. ..... N. E. S., R. W., W.M.

Bearing and distance from section or subdivision corner

Altitude at well 4,066

TYPE OF WELL: Drilled Date Constructed

Depth drilled 327 Depth cased



Section

CASING RECORD:

10-8 inch

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AQUIFERS:

Sand and gravel (?)

WATER LEVEL:

21 feet below land surface, 1943

PUMPING EQUIPMENT: Type Turbine H.P.

Capacity 600 G.P.M.

WELL TESTS:

Drawdown ..... ft. after ..... hours ..... G.P.M.

Drawdown ..... ft. after ..... hours ..... G.P.M.

USE OF WATER Public Supply Temp. °F., 19

SOURCE OF INFORMATION USGS

DRILLER or DIGGER

ADDITIONAL DATA:  
Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

City Well No. 2; located 300 ft. west of well No. 1; drawdown 10 ft. when pumped at 532 gpm for 1 hr.

STATE ENGINEER  
Salem, Oregon

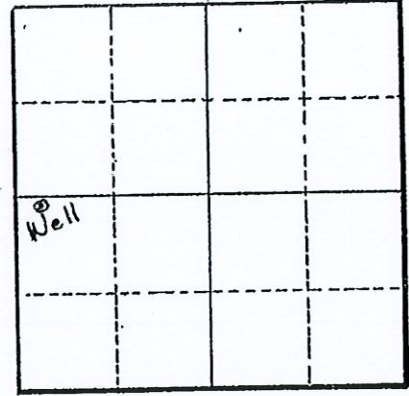
Klamath  
18096

# Well Record

STATE WELL NO. 41/12-15M  
COUNTY Klamath  
APPLICATION NO. G-1167

OWNER: Malin Municipal Water System MAILING ADDRESS: \_\_\_\_\_  
(City of Malin)  
LOCATION OF WELL: Owner's No. # 2 CITY AND STATE: Malin, Oregon

NW 1/4 SW 1/4 Sec. 15 T. 41 S. R. 12 W., W.M.  
Bearing and distance from section or subdivision  
corner 73°25' E. 501' 7" from 1/4 cor. of  
sections 15 & 16.



Section 15

Altitude at well 4200 ft.

TYPE OF WELL: Drilled Date Constructed 1937

Depth drilled 380 ft. Depth cased 100 ft.

CASING RECORD:  
10 inch standard pipe 0 to 100 ft.

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FINISH:

AQUIFERS:

WATER LEVEL:  
21 ft.

PUMPING EQUIPMENT: Type Layne pump H.P. 25  
Capacity 600 G.P.M.

WELL TESTS:  
Drawdown 10 ft. after \_\_\_\_\_ hours 532 1/2 G.P.M.  
Drawdown 9 ft. after \_\_\_\_\_ hours 450 G.P.M.

USE OF WATER Municipal Temp. \_\_\_\_\_ °F., 19...  
SOURCE OF INFORMATION Related registration statement

DRILLER or DIGGER \_\_\_\_\_  
ADDITIONAL DATA:  
Log \_\_\_\_\_ Water Level Measurements \_\_\_\_\_ Chemical Analysis \_\_\_\_\_ Aquifer Test \_\_\_\_\_

REMARKS:  
Log: Soil 0 to 5 ft.  
Rocks with sand & clay layers 5 to 100 ft.  
Lava rock & stratas of Honeycomb  
lava rock 100 to 370 ft.  
Heavy black water sand 370 to 380 ft.

**WATER WELL REPORT**  
STATE OF OREGON

*KUAM*  
*15097*

**RECEIVED** 4/5/82-1609  
State Well No. ....

**MAR 31 1982**  
State Permit No. ....

**WATER RESOURCES DEPT**

**SALEM, OREGON**

**(1) OWNER:**

Name City of Malin  
Address \_\_\_\_\_  
City Malin, Stat Ore. 97632

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary Air  Driven   
Rotary Mud  Dug   
 Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other   
Thermal: Withdrawal  ReInjection

**(5) CASING INSTALLED:**

Steel Threaded  Plastic Welded

.....12" Diam. from .....0 ft. to .....181 ft. Gauge .....250.....  
....." Diam. from ..... ft. to ..... ft. Gauge .....

**LINER INSTALLED: none**

....." Diam. from ..... ft. to ..... ft. Gauge .....

**(6) PERFORATIONS:**

Perforated?  Yes  No

Type of perforator used \_\_\_\_\_  
Size of perforations in. by in.  
..... perforations from ..... ft. to ..... ft.  
..... perforations from ..... ft. to ..... ft.  
..... perforations from ..... ft. to ..... ft.

**(7) SCREENS:**

Well screen installed?  Yes  No

Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
Type \_\_\_\_\_ Diam. \_\_\_\_\_ Slot Size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot Size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) WELL TESTS:**

Drawdown is amount water level is lowered below static level **Interstate**

Was a pump test made?  Yes  No If yes, by whom? Pump Co.  
Yield: 1000 gal./min. with 83 ft. drawdown after 3 hrs.  
" 800 " 53 " 3 "  
Air test gal./min. with drill stem at ft. hrs.  
Bailer test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water 54 Depth artesian flow encountered ..... ft.

**(9) CONSTRUCTION:**

Special standards: Yes  No

Well seal—Material used cement  
Well sealed from land surface to 40 50 ft.  
Diameter of well bore to bottom of seal 16 in.  
Diameter of well bore below seal 10 in.  
Number of sacks of cement used in well seal 45 sacks  
How was cement grout placed? grout pump

Was pump installed? NO Type \_\_\_\_\_ HP \_\_\_\_\_ Depth \_\_\_\_\_ ft.  
Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of Water? surface depth of strata 15  
Method of sealing strata off casing & cement  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from ..... ft. to ..... ft.

**(10) LOCATION OF WELL:**

County Klamath Driller's well number \_\_\_\_\_  
N.E. 1/4 S.E. 1/4 Section 16 T. 41S R. 12E. W.M.  
Tax Lot # \_\_\_\_\_ Lot \_\_\_\_\_ Blk \_\_\_\_\_ Subdivision \_\_\_\_\_  
Address at well location: \_\_\_\_\_

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found 194 ft.  
Static level 25 ft. below land surface. Date 10/12/8  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

**(12) WELL LOG:**

Diameter of well below casing 10

Depth drilled 300 ft. Depth of completed well 300 ft.

Formation: Describe color, texture, grain size and structure of materials; 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.

| MATERIAL                  | From | To  | SWL |
|---------------------------|------|-----|-----|
| top soil                  | 0    | 4   |     |
| brown clay & sand         | 4    | 17  |     |
| yellow clay               | 17   | 65  |     |
| gray clay                 | 65   | 73  |     |
| yellow clay & coarse sand | 73   | 117 |     |
| gray lava & clay          | 117  | 126 |     |
| gray shale                | 126  | 175 |     |
| gray lava                 | 175  | 194 | 25  |
| brown lava                | 194  | 207 | "   |
| gray lava                 | 207  | 214 | "   |
| brown lava                | 214  | 221 | "   |
| gray lava                 | 221  | 229 | "   |
| brown lava                | 229  | 260 | "   |
| gray lava                 | 260  | 300 | "   |

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Work started 9/17 19 81 Completed 10/12 19 8  
Date well drilling machine moved off of well 10/12 19 8

**Drilling Machine Operator's Certification:**

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.  
[Signed] John A. Van Meter Date 3/29, 19..82  
(Drilling Machine Operator) \_\_\_\_\_  
Drilling Machine Operator's License No. 118

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Name John A. Van Meter (Type or print)  
(Person, firm or corporation) \_\_\_\_\_  
Address P.O. Box 204 Malin, Ore. 97632  
[Signed] John A. Van Meter  
(Water Well Contractor) \_\_\_\_\_  
Contractor's License No. 170 Date 3/29, 19.82



KLAM  
51832

MAY 24 1999

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

WATER RESOURCES DEPT.  
SALEM, OREGON

WELL I.D. # L 29461  
START CARD # 107320

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number #4  
Name CITY OF MALIN  
Address PO BOX 61  
City MALIN State ORE Zip 97632

(2) TYPE OF WORK  
 New Well  Deepening  Alteration (repair/recondition)  Abandonment

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval  Yes  No Depth of Completed Well 625.  
Explosives used  Yes  No Type Amount

| HOLE     |      |     | SEAL     |      |    | Sacks or pounds |
|----------|------|-----|----------|------|----|-----------------|
| Diameter | From | To  | Material | From | To |                 |
| 17 1/2   | 0    | 31  | CEMENT   | 0    | 31 | 23 SKS          |
| 12 3/4   | 31   | 243 |          |      |    |                 |
| 7 1/8    | 243  | 625 |          |      |    |                 |

How was seal placed: Method  A  B  C  D  E  
 Other

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

(6) CASING/LINER:

| Diameter       | From | To | Gauge | Steel                               | Plastic                  | Welded                              | Threaded                 |
|----------------|------|----|-------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Casing: 12 3/4 | 19   | 31 | 280   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Liner:         |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Final location of shoe(s) 31 FEET

(7) PERFORATIONS/SCREENS:

| From | To | Slot size | Number | Diameter | Material | Tele/pipe size | Casing                   | Liner                    |
|------|----|-----------|--------|----------|----------|----------------|--------------------------|--------------------------|
|      |    |           |        |          |          |                | <input type="checkbox"/> | <input type="checkbox"/> |

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing  
Yield gal/min 275 Drawdown 183 Drill stem at Time 24 hr.

Temperature of water 58°F Depth Artesian Flow Found \_\_\_  
Was a water analysis done?  Yes By whom \_\_\_  
Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_  
Depth of strata: \_\_\_

(9) LOCATION OF WELL by legal description:  
County KLAMATH Latitude Longitude  
Township 41S N or S Range 12E E or W. WM.  
Section 16 NE 1/4 NE 1/4  
Tax Lot R4112 Lot 01600 Block 401 Subdivision  
Street Address of Well (or nearest address) CANAL ST  
MALIN, ORE

(10) STATIC WATER LEVEL:  
91 ft. below land surface. Date 5/14/99  
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:  
Depth at which water was first found 117 FEET

| From | To  | Estimated Flow Rate | SWL |
|------|-----|---------------------|-----|
| 117  | 625 | 275 GPM             |     |

(12) WELL LOG:  
Ground Elevation

| Material           | From | To | SWL |
|--------------------|------|----|-----|
| SEE ATTACHED SHEET |      |    |     |
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| OWRD               |      |    |     |

Date started APRIL 7, 1999 Completed MAY 14, 1999  
(unbonded) Water Well Constructor Certification:  
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.  
WWC Number  
Signed Date

(bonded) Water Well Constructor Certification:  
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work 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.  
WWC Number 601  
Signed Date 5/17/99

# STOREY DRILLING SERVICES

P.O. Box 98 • MIDLAND, OREGON 97634  
(541) 884-3990 • (800) 245-8122  
Fax #: (530) 528-2562

22560 ADOBE ROAD • RED BLUFF, CALIFORNIA 96080  
CONTRACTOR'S LICENSES:  
OR #601 • CA #583153 • NV #38199

City of Malin  
P. O. Box 61  
Malin, Oregon 97632

WELL LOCATION: NE¼ NE¼S16 T41S R12E  
South end of Turkey Hill above city pool

## LOG

|           |                                   |
|-----------|-----------------------------------|
| 0 - 2     | Brown sandy clay                  |
| 2 - 4     | Decomposed brown lava             |
| 4 - 25    | Brown lava                        |
| 25 - 32   | Gray basalt                       |
| 32 - 42   | Brown lava                        |
| 42 - 44   | Gray basalt                       |
| 44 - 72   | Brown basalt                      |
| 72 - 106  | Hard black basalt                 |
| 106 - 112 | Brown lava                        |
| 112 - 117 | Hard black basalt                 |
| 117 - 119 | Black lava                        |
| 119 - 141 | Hard black basalt                 |
| 141 - 149 | Gray basalt                       |
| 149 - 164 | Hard black basalt                 |
| 164 - 172 | Bubbly black lava with black clay |
| 172 - 187 | Hard black basalt                 |
| 187 - 188 | Hard broken black basalt          |
| 188 - 190 | Hard black basalt                 |
| 190 - 250 | Black lava                        |
| 250 - 260 | Grayish blue clay                 |
| 260 - 267 | Gray clay with black lava         |
| 267 - 282 | Hard gray basalt                  |
| 282 - 283 | Bubbly brown lava                 |
| 283 - 297 | Hard black basalt                 |
| 297 - 298 | Brown lava                        |
| 298 - 312 | Black basalt                      |
| 312 - 315 | Brown clay with black lava        |
| 315 - 333 | Hard black basalt                 |
| 333 - 344 | Brown lava                        |
| 344 - 353 | Hard broken black basalt          |
| 353 - 386 | Brown basalt                      |
| 386 - 390 | Brown lava with brown clay        |
| 390 - 397 | Hard broken black basalt          |
| 397 - 405 | Black lava                        |
| 405 - 414 | Hard black basalt                 |
| 414 - 421 | Black lava                        |
| 421 - 430 | Black basalt                      |
| 430 - 436 | Black lava                        |
| 436 - 442 | Black basalt                      |



START: April 7, 1999  
FINISH: May 14, 1999

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CONTRACTOR'S LICENSES:  
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## City of Malin LOG (continued)

|           |                                  |
|-----------|----------------------------------|
| 442 - 454 | Brown decomposed lava with clay  |
| 454 - 467 | Hard broken black basalt         |
| 467 - 477 | Brown decomposed lava with clay  |
| 477 - 490 | Black lava                       |
| 490 - 501 | Hard broken gray basalt          |
| 501 - 513 | Hard gray basalt                 |
| 513 - 533 | Bubbly black lava with gray clay |
| 533 - 550 | Black basalt                     |
| 550 - 556 | Hard black basalt                |
| 556 - 563 | Gray clay                        |
| 563 - 588 | Hard black basalt                |
| 588 - 589 | Black lava with clay             |
| 589 - 597 | Brown lava with clay             |
| 597 - 625 | Black lava with gray clay        |

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40 feet of 12 3/4 inch O. D. x .250 wall steel casing set and cemented at 31 feet (9 feet of casing above ground level to accommodate fill).

12 1/4 diameter open hole from 31 to 243 feet; 7 7/8 inch diameter hole from 243 to 625 feet.

Test pumped 24 hours to yield 275 GPM at 183 feet. Static water level at 91 feet. Specific capacity 3GPM/foot.

Temperature 58° Fahrenheit. 7 grains Hardness. 0.0 PPM Iron.

An electric log of the well was performed to determine water bearing zones.

---

## Worksheet for Pressure Pipe - Well 2

---

### Project Description

Friction Method                      Hazen-Williams Formula  
Solve For                                Pressure at 1

### Input Data

|                       |         |                    |
|-----------------------|---------|--------------------|
| Pressure 2            | 15.00   | psi                |
| Elevation 1           | 4066.00 | ft                 |
| Elevation 2           | 4160.00 | ft                 |
| Length                | 2100.00 | ft                 |
| Roughness Coefficient | 150.000 |                    |
| Diameter              | 8.00    | ft                 |
| Discharge             | 0.89    | ft <sup>3</sup> /s |

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### Results

|                   |         |                 |
|-------------------|---------|-----------------|
| Pressure 1        | 55.75   | psi             |
| Headloss          | 0.00    | ft              |
| Energy Grade 1    | 4194.60 | ft              |
| Energy Grade 2    | 4194.60 | ft              |
| Hydraulic Grade 1 | 4194.60 | ft              |
| Hydraulic Grade 2 | 4194.60 | ft              |
| Flow Area         | 50.27   | ft <sup>2</sup> |
| Wetted Perimeter  | 25.13   | ft              |
| Velocity          | 0.02    | ft/s            |
| Velocity Head     | 0.00    | ft              |
| Friction Slope    | 0.00000 | ft/ft           |

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Theoretical Pump Capacity Well #2  
City of Malin T-8537 FINAL PROOF SURVEY

Flow            0.89 CFS  
Head            55.75 PSI see calculations on loss  
LIFT             83 Feet (from well log)  
Efficiency      85% Submersible Pump  
  
**HP                    25.1** 30 HP total pump

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## Worksheet for Pressure Pipe - Well 3

### Project Description

Friction Method Hazen-Williams Formula  
Solve For Pressure at 1

### Input Data

|                       |         |                    |
|-----------------------|---------|--------------------|
| Pressure 2            | 15.00   | psi                |
| Elevation 1           | 4066.00 | ft                 |
| Elevation 2           | 4160.00 | ft                 |
| Length                | 2000.00 | ft                 |
| Roughness Coefficient | 150.000 |                    |
| Diameter              | 8.00    | ft                 |
| Discharge             | 0.89    | ft <sup>3</sup> /s |

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### Results

|                   |         |                 |
|-------------------|---------|-----------------|
| Pressure 1        | 55.75   | psi             |
| Headloss          | 0.00    | ft              |
| Energy Grade 1    | 4194.60 | ft              |
| Energy Grade 2    | 4194.60 | ft              |
| Hydraulic Grade 1 | 4194.60 | ft              |
| Hydraulic Grade 2 | 4194.60 | ft              |
| Flow Area         | 50.27   | ft <sup>2</sup> |
| Wetted Perimeter  | 25.13   | ft              |
| Velocity          | 0.02    | ft/s            |
| Velocity Head     | 0.00    | ft              |
| Friction Slope    | 0.00000 | ft/ft           |

Theoretical Pump Capacity Well #3  
City of Malin T-8537 FINAL PROOF SURVEY

Flow            0.89 CFS  
Head            55.75 PSI see calculations on loss  
LIFT             83 Feet (from well log)  
Efficiency      85% Submersible Pump  
  
**HP                    25.1** 30 HP total pump

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---

## Worksheet for Pressure Pipe - Well 4

---

### Project Description

Friction Method                      Hazen-Williams Formula  
Solve For                                Pressure at 1

### Input Data

|                       |         |                    |
|-----------------------|---------|--------------------|
| Pressure 2            | 50.00   | psi                |
| Elevation 1           | 4160.00 | ft                 |
| Elevation 2           | 4160.00 | ft                 |
| Length                | 66.00   | ft                 |
| Roughness Coefficient | 150.000 |                    |
| Diameter              | 8.00    | ft                 |
| Discharge             | 0.89    | ft <sup>3</sup> /s |

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### Results

|                   |         |                 |
|-------------------|---------|-----------------|
| Pressure 1        | 50.00   | psi             |
| Headloss          | 0.00    | ft              |
| Energy Grade 1    | 4275.33 | ft              |
| Energy Grade 2    | 4275.33 | ft              |
| Hydraulic Grade 1 | 4275.33 | ft              |
| Hydraulic Grade 2 | 4275.33 | ft              |
| Flow Area         | 50.27   | ft <sup>2</sup> |
| Wetted Perimeter  | 25.13   | ft              |
| Velocity          | 0.02    | ft/s            |
| Velocity Head     | 0.00    | ft              |
| Friction Slope    | 0.00000 | ft/ft           |



Theoretical Pump Capacity Well #4  
City of Malin T-8537 FINAL PROOF SURVEY

Flow            0.89 CFS  
Head            50 PSI see calculations on loss  
LIFT            91 Feet (from well log)  
Efficiency      85% Submersible Pump  
  
**HP                    24.5** 30 HP total pump

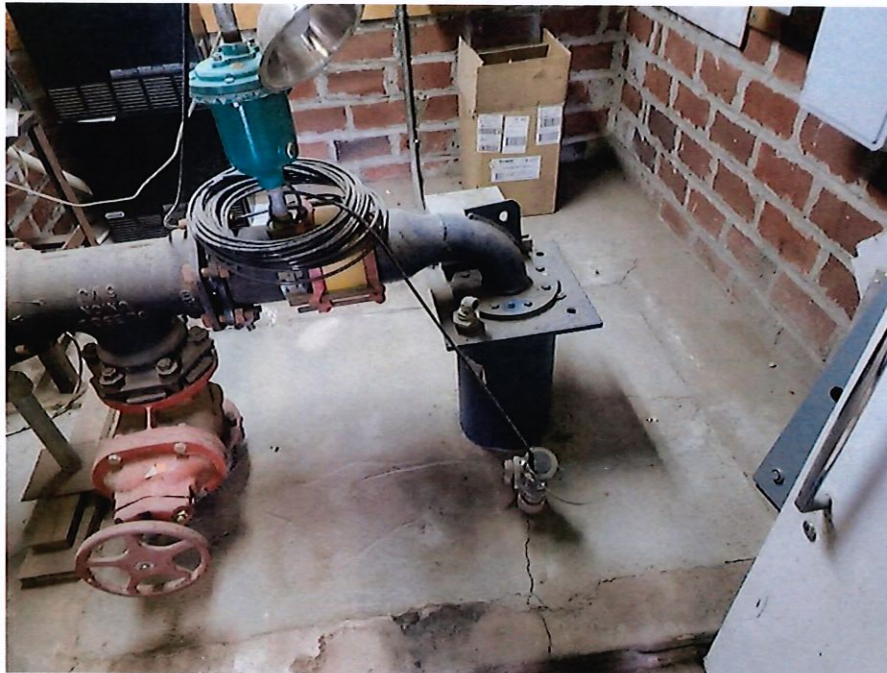
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**CLAIM OF BENEFICIAL USE**  
Inspection Photographs  
Transfers T-8536 & T-8537

Job: 2021-150  
Date: 10/27/2021

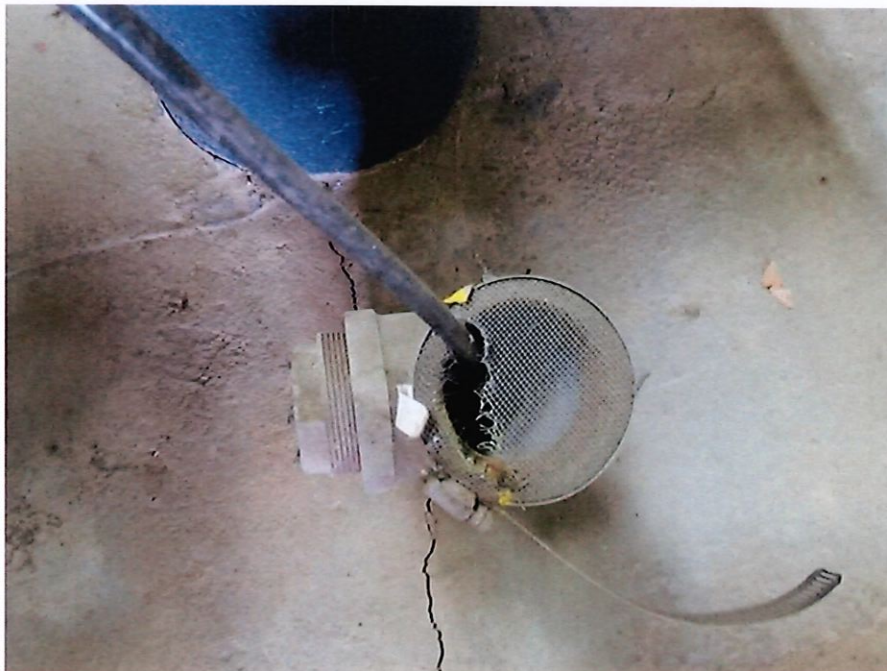


**Well #2 & Access Port**

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**Well #2 Access Port With Electronic Level Transducer Installed**



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P.O. Box 28  
17681 Hwy 395  
Lakeview, Oregon 97630

**City of Malin**  
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Transfers T-8536 & T-8537

Job: 2021-150  
Date: 10/27/2021

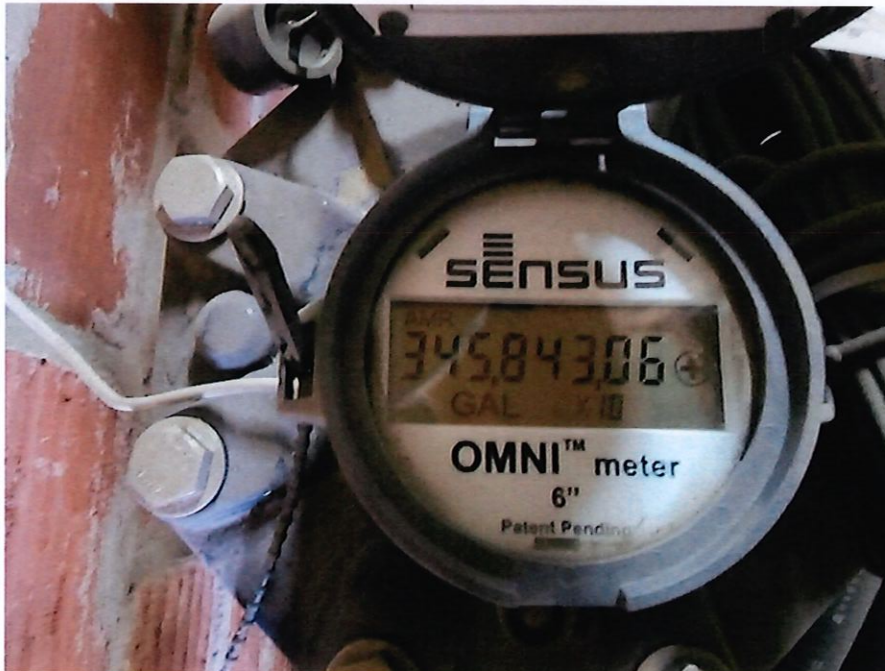


**Well #2 Flowmeter**

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**Well #2 Flowmeter**



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Job: 2021-150  
Date: 10/27/2021



**Well #2 Discharge to Municipal System**

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**Well #2 Pressure Gauge**



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**Well #3**

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**Well #3 Access Port**



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**Well #3 Flowmeter**



**Well #3 Flowmeter**



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**Well #3 Discharge to Municipal System**



**Well #4**



**Anderson Engineering & Surveying, Inc.**  
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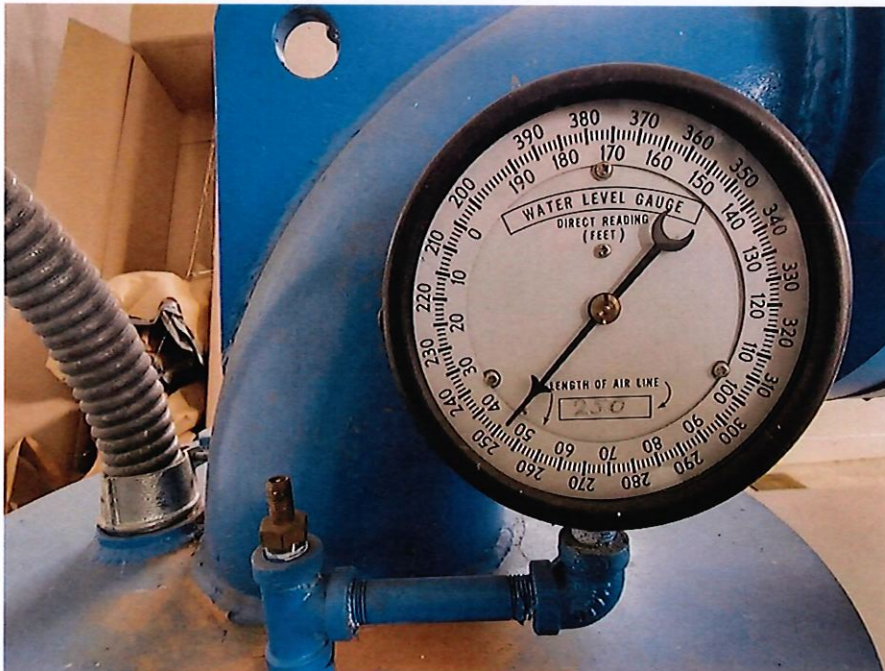
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**Well #4 Flowmeter**



**Well #4 Water Level Gauge**



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