Aspen
Rural Land Consulting

Water Resources, Water Rights, Land
Surveying, Engineering, Land Use Planning

ERICURSTADT@HOTMAIL.COM
971-250-1520 (MOBILE)

Water Resources Department
Attn: Limited License Department
725 Summer Street NE, Ste. A
Salem, OR, 97301

21 May 2021

Subject: New Applications for Limited License

To Whom It May Concern,

Enclosed is an application for a Limited License to establish a vineyard together with the following attachments:

A. Land Use Compatibility Statement
B. Map of Local Well Logs and Well Logs
C. Application Map
D. A check made out to "Oregon Water Resources Department" for $370.00 (Limited License with 4 proposed Points of Diversion = 280 + 90).

Please let me know if there are any concerns or you need any more information.

Respectfully,
Aspen Rural Land Consulting

Eric Urstadt, PE, PLS

LL-1878

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1271
(503) 986-0900
www.wrd.state.or.us

Application for Limited Water Use License

RECEIVED
JUN 04 2021
OWRD

License No.: LL-1878

Applicant Information

NAME			PHONE (HM)
Terry Silbernagel			N/A
PHONE (WK)	CELL		FAX
503.371.6409	503.559.3200		N/A
ADDRESS			
4675 Deon Lane SE			
CITY	STATE	ZIP	E-MAIL *
Salem	OR	97317	terry@argribis.com

Agent Information

NAME			PHONE	FAX
Aspen Rural Land Consulting c/o Eric Urstadt, PE, PLS			971.250.1520	N/A
ADDRESS				CELL
39290 NW Murtaugh Road				
CITY	STATE	ZIP	E-MAIL *	
North Plains	OR	97133	ericurstadt@hotmail.com	

I (We) make application for a Limited License to use or store the following described surface waters or groundwater – not otherwise exempt, or to use stored water of for a use of a short-term or fixed-duration:

1. **SOURCE(S) OF WATER:** well water a tributary of alluvial or basalt aquifers
2. **AMOUNT OF WATER** to be diverted;
   Maximum and instantaneous rate (cubic feet or gallons per minute): 20 gallons per minute
   Total volume (gallons or acre-feet): 2 acre-feet. If water is to be used from more than one source, give the quantity from each: water is to be from either alluvial or basalt, but not both.
3. **INTENDED USE(S) OF WATER:** (check all that apply)
   - ☐ Road construction or maintenance
   - ☐ General construction
   - ☐ Forestland and rangeland management; or
   - ☑ Other: To establish a grape vineyard
4. **DESCRIPTION OF PROPOSED PROJECT:** Include a description of the place of use as shown on the accompanying site map, the method of water diversion, the type of equipment to be used (including pump horsepower, if applicable), length and dimensions of supply ditches and pipelines:

   The current project plan is to establish a grape vineyard using drip irrigation from a proposed new well. The well shall have a submersible pump with suitable horsepower to delivery 20 gallons per minute to a vineyard set. The vineyard shall have 5 sets having 23 acres in each set. The map shows four proposed Points of Appropriation (POA). While only one well is planned to be constructed, four wells are applied for so that the Groundwater Section will analyze four four POA's: two in the alluvial aquifer, and two in the underlying basalt aquifer as was found in the local well logs. Well 1 and 3 are down in the basalt and wells 2 and 4 are in the alluvial aquifer It appears the alluvial aquifer is less than 100' depth (+/-) and the basalt is greater than 100' depth.

5. **PROJECT SCHEDULE:** (List day, month, and year)
   Date water use will begin: Summer 2021
   Date water use will be completed: Summer 2026

   Months of the year water would be diverted and used: The irrigation season

   If for other than irrigation from stored water, how and where will water be discharged after use:

   There will be no excess water to be discharged.

Terry Silbernagel — Applicant Signature
Terry Silbernagel, Landowner — Print Name *and title if applicable*
5/25/21 — Date

PLEASE READ CAREFULLY

NOTE: A completed water availability statement from the local watermaster, Land Use Information Form completed by the local Planning Department, fees and site map meeting the requirements of OAR 690-340-030 must accompany this request. The fee for this request is **$280** for the first point of diversion plus **$30** for each additional point of diversion. Please review the Department's fee schedule to view fees required to request a limited license for Aquifer Storage and Recovery testing purposes or for Artificial Groundwater Recharge testing purposes.

Failure to provide any of the required information will result in return of your application. The license, if granted, will not be issued or replaced by a new license for a period of more than five consecutive years. The license, if granted, will be subordinate to all other authorized uses that rely upon the same source, or water affected by the source, and may be revoked at any time it is determined the use causes injury to any other water right or minimum perennial streamflow.

If water source is well, well logs or adequate information for the Department to determine aquifer, well depth, well seal and open interval, etc. are required. The licensee shall indicate the intended aquifer. If for multiple wells, each map location shall be clearly tired to a well log.

If a limited license is approved, the licensee shall give notice to the Department (Watermaster) at least 15 days in advance of using the water under the Limited License and shall maintain a record of use. The record of use shall include, but need not be limited to, an estimate of the amount of water used, the period of use and the categories of beneficial use to which the water is applied. During the period of the Limited License, the record of use shall be available for review by the Department upon request.

**A summary of review criteria and procedures that are generally applicable to these applications is available at: http://www.oregon.gov/owrd/pages/pubs/forms.aspx*

Mapping Requirements (OAR 690-340-0030):

(1) A request for a limited license shall be submitted on a form provided by the Water Resources Department, and shall be accompanied by the following:

a. A site map of reproducible quality, drawn to a standard, even scale of not less than 2 inches = 1 mile, showing:

i. The locations of all proposed points of diversion referenced by coordinates or by bearing and distance to the nearest established or projected public land survey corner;

ii. The general course of the source for the proposed use, if applicable;

iii. Other topographical features such as roads, streams, railroads, etc., which may be helpful in locating the diversion points in the field.

REMARKS:

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For WRD Use Only

LL-1878

This page to be completed by the local Watermaster.

WATER AVAILABILITY STATEMENT

Name of Applicant: Terry Silbernagel Limited License Number: LL-1878

1. To your knowledge, has the stream or basin that is the source for this application ever been regulated for prior rights?

☑ Yes ☐ No

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If yes, please explain:

Pudding R basin

2. Based on your observations, would there be water available in the quantity and at the times needed to supply the use proposed by this application?

☑ Yes ☐ No

3. Do you observe this stream system during regular fieldwork?

☑ Yes ☐ No

If yes, what are your observations for the stream?

Regulation of junior water rights

4. If the source is a well and if WRD were to determine that there is the potential for substantial interference with nearby surface water sources, would there still be ground water and surface water available during the time requested and in the amount requested without injury to existing water rights?

☐ Yes ☑ No ☐ N/A

What would you recommend for conditions on a limited license that may be issued approving this application?

5. Any other recommendations you would like to make?

Signature Greg Wachsmuth WM District #: 16 Date: 5-5-2021

ATTACH - A ½

Land Use Information Form

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

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Applicant: Terry (First) Silbernagel (Last)

Mailing Address: 4675 Deon Lane SE

Salem (City) OR (State) 97317 (Zip) Daytime Phone: 503.559.3200

A. Land and Location

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

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
8S	2W	10	NW	400	SA	☒ Diverted	☒ Conveyed	☒ Used	farming
						☐ Diverted	☐ Conveyed	☐ Used	
						☐ Diverted	☐ Conveyed	☐ Used	
						☐ Diverted	☐ Conveyed	☐ Used	

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

Marion

B. Description of Proposed Use

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

☐ Permit to Use or Store Water ☐ Water Right Transfer ☐ Permit Amendment or Ground Water Registration Modification
☒ Limited Water Use License ☐ Allocation of Conserved Water ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ☒ Ground Water ☐ Surface Water (name) _____

Estimated quantity of water needed: 20 ☐ cubic feet per second ☒ gallons per minute ☐ acre-feet

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

Briefly describe:

The landowner wishes to get approval for water from a new well to irrigate a vineyard.

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.

See bottom of Page 3. →

LL-1878

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OWRD

For Local Government Use Only

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

Please check the appropriate box below and provide the requested information

☒ Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): _____

☐ Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		☐ 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
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued

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

Name: Lindsey King Title: Associate Planner

Signature: Lindsey King Phone: 503 588 5038 Date: 5/6/2021

Government Entity: Marion County

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

Receipt for Request for Land Use Information

Applicant name: _____

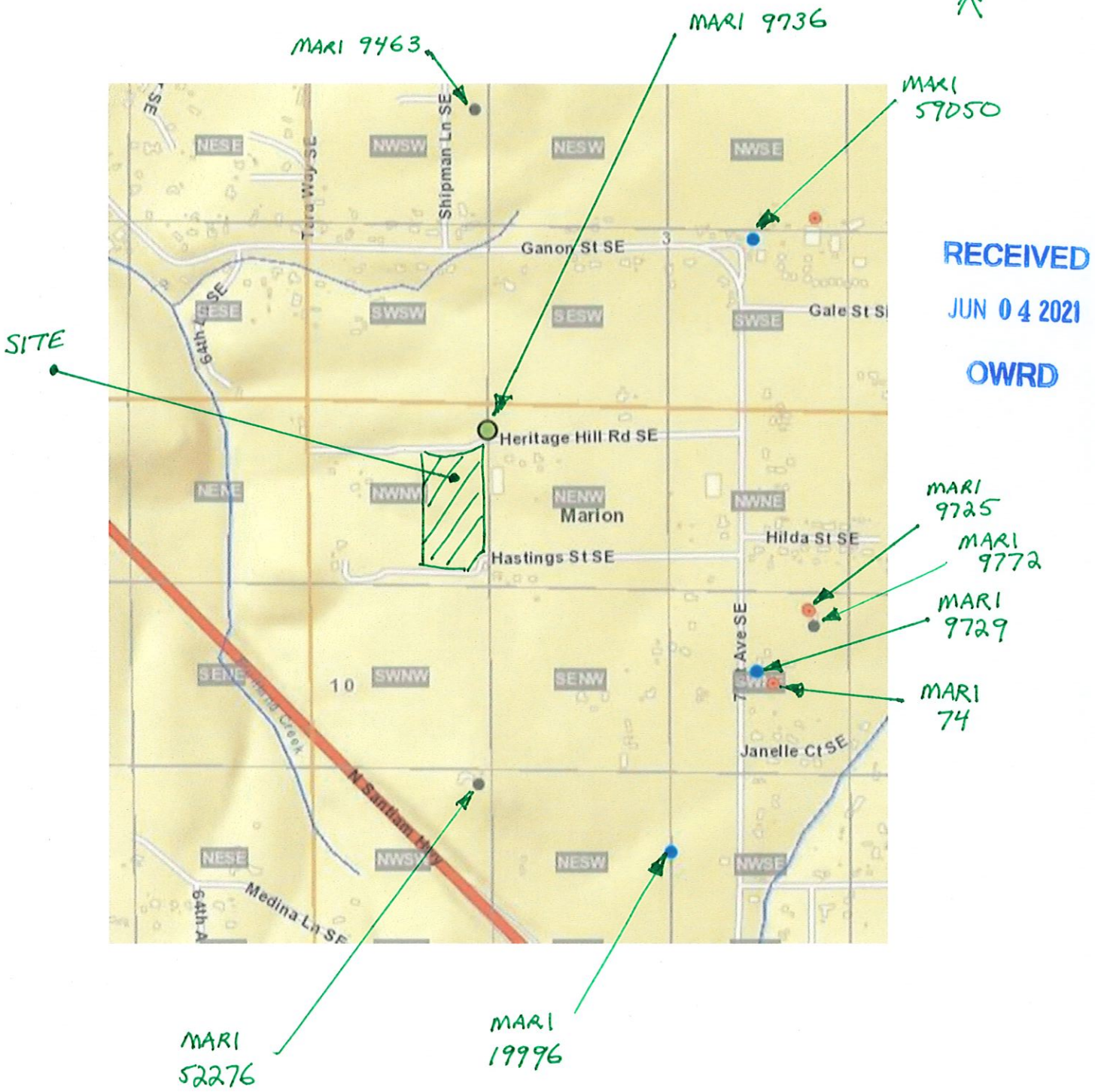
City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

LL-1878

ATTACH B – 1/14

SILBERNAGEL LIM. LIC.
WELL DIAGRAM



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LL-1878

B-2/14 8S/2W/10C

STATE OF OREGON
WATER WELL REPORT MARI 074
(as required by ORS 537.765)

(START CARD) # 17043

(1) OWNER: Well Number:
Name Heritage Seedlings, Inc.
Address 4194 I-75 Bus SE
City Salem State Or Zip 97301

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☒ Depth of Completed Well 210 ft.
Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	20	Cement	0	79	19 Sks.
8	20	80				
6	80	210				

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:	6	+1	79		☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4½"	0	210	Well Easy	☐	☒	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Skil Saw
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
110	210	Mill	120			☐	☒
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
100.		208.	1 hr.

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

(9) LOCATION OF WELL by legal description:
County Marion Latitude Longitude
Township 8S N or S, Range 2W E or W, WM.
Section 10 NW ¼ SW ¼
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 4194 - 71st Ave SE
Salem, Or. 97301

(10) STATIC WATER LEVEL:
30 ft. below land surface. Date May 14, 1990
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 165

From	To	Estimated Flow Rate	SWL
165	210	100	30'

(12) WELL LOG: Ground elevation

Material	From	To	SWL
Soil	0	2	
Claystone Yellow.	2	13	
Clay & Gravel	13	15	
Clay	15	72	
Rock	72	131	
Rock Black. Hard.	131	163	
Rock Black, Brown Broken	163	180	
Rock Black, Brown Very Broken	180	210	30'

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Date started May 9, 1990 Completed May 14, 1990

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, c abandonment of this well is in compliance with Oregon well constructio standards. Materials used and information reported above are true to my bes knowledge and belief.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonmer work performed on this well during the construction dates reported above. a work performed during this time is in compliance with Oregon we construction standards. This report is true to the best of my knowledge an belief.
WWC Number 75
Signed Date May 14, 1990

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

LL-1878

ORIGINAL
File Original and Duplicate with the STATE ENGINEER, SALEM, OREGON

RECEIVED
OCT 27 1958
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON

State Well No. 8/2W-3M

State Permit No. 9463

B-3/14

(1) OWNER:
Name HAROLD LEEVERS
Address 714 TILLMAN AVE.,
SALEM, OREGON

(2) LOCATION OF WELL:
County Marion Owner's number, if any—
NW ¼ SW ¼ Section 3 T. 8S R. 2 W.M.
Bearing and distance from section or subdivision corner
2390' N and 1310' E of SW Cor. Sec 3

(3) TYPE OF WORK (check):
Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒
8 " Diam. from 0 ft. to 80 ft. Gage .277
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) 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.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.
Was a surface seal provided? ☒ Yes ☐ No To what depth? 80 ft.
Material used in seal—Casing cemented to surface
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 68 ft. below land surface Date Oct 3,58
Artesian pressure lbs. per square inch Date

Log Accepted by:
[Signed] Harold Leevers (Owner) Date Oct 15, 19 58

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Stettler
Yield: 30 gal./min. with 124 ft. drawdown after 4 hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 57 Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:
Diameter of well 8 inches.
Depth drilled 230 ft. Depth of completed well 220 ft.
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Clay and boulders	0	18
Clay -red	18	67
Clay- Yellow to tan	67	80
Basalt-black	80	159
Volcanic Ash	159	163
Basalt-black	163	202
Ash or cinders	202	212
Shale- hard-gray	212	220
Shale- soft-blue	220	230.
Aquifer--159-163		
202-212		
Shale squeezes below 220		

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Work started Sept 16 19 58 Completed Oct 4 19 58

(13) PUMP:
Manufacturer's Name
Type: H.P.

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME DUFFIELD BROS.,
(Person, firm, or corporation) (Type or print)
Address 4045 BLUFF ST., SALEM, OREGON.
Driller's well number 19158
[Signed] R. Duffield (Well Driller)
License No. 15 Date Oct 13, 19 58

(USE ADDITIONAL SHEETS IF NECESSARY)

LL-1878

ORIGINAL
File Original and Duplicate with the STATE ENGINEER, SALEM, OREGON

RECEIVED
OCT 27 1958
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON

State Well No. 8/2W-3M
State Permit No. 9463
B-4/14

(1) OWNER:
Name HAROLD LEEVERS
Address 714 TILLMAN AVE.,
SALEM, OREGON

(2) LOCATION OF WELL:
County Marion Owner's number, if any—
NW ¼ SW ¼ Section 3 T. 8S R. 2 W.M.
Bearing and distance from section or subdivision corner
2390' N and 1310' E of SW Cor. Sec 3

(3) TYPE OF WORK (check):
Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒
8 " Diam. from 0 ft. to 80 ft. Gage .277
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) 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.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☒ No
Manufacturer's Name
Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.
Was a surface seal provided? ☒ Yes ☐ No To what depth? 80 ft.
Material used in seal—Casing cemented to surface
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 68 ft. below land surface Date Oct 3,58
Artesian pressure lbs. per square inch Date

Log Accepted by:
[Signed] Harold Leevers (Owner) Date Oct 15, 1958

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Stettler
Yield: 30 gal./min. with 124 ft. drawdown after 4 hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 57 Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:
Diameter of well 8 inches.
Depth drilled 230 ft. Depth of completed well 220 ft.
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Clay and boulders	0	18
Clay -red	18	67
Clay- Yellow to tan	67	80
Basalt-black	80	159
Volcanic Ash	159	163
Basalt-black	163	202
Ash or cinders	202	212
Shale- hard-gray	212	220
Shale- soft-blue	220	230.
Aquifer--159-163		
202-212		
Shale squeezes below 220		

RECEIVED
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Work started Sept 16 1958 Completed Oct 4 1958

(13) PUMP:
Manufacturer's Name
Type: H.P.

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME DUFFIELD BROS.
(Person, firm, or corporation) (Type or print)
Address 4045 BLUFF ST., SALEM, OREGON.
Driller's well number 19158
[Signed] Raymond F. Duffield (Well Driller)
License No. 15 Date Oct 13, 1958

(USE ADDITIONAL SHEETS IF NECESSARY)

LL-1878

B-5/14

M 71...9735

8S/2W/10 aC 5929

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

(1) OWNER:

Well Number:

Name Roger Knox

Address 2460 Santiam Hwy

City Lyons State Or. Zip

(2) TYPE OF WORK:

☐ New Well ☒ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☒ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well 210 ft.

Explosives used Yes ☐ No ☒ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
10	0	80	Cement	0	80	26
6	80	210				

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:	6	1½'	80	250	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	4½"	0	210	Well casing	☐	☒	☒	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☒ Perforations Method Skil Saw

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
130'	210'	¼x6	92		4½"	☒ P.V.C.	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
135		208	1 hr.

Temperature of water Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Marion Latitude ' " Longitude ' "

Township 8S N or S, Range 2W E or W, WM.

Section 10 SW ¼ NE ¼

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address) Approx 4046 21st Ave S.E. Salem, Or.

(10) STATIC WATER LEVEL:

47 ft. below land surface. Date July 8, 1989

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found

From	To	Estimated Flow Rate	SWL
115	210	135	47

(12) WELL LOG:

Ground elevation 500 ft.

Material	From	To	SWL
Soil	0	3	
Clay	3	5	
Clay Small Gravel	5	12	
Clay	12	30	
Clay Decomposed Gravel	30	68	
Rock Grey Hard	68	92	
Rock Black	92	110	
Rock Black Broken	110	203	
Rock Black Hard	203	210	47

RECEIVED AUG 7 1989 WATER RESOURCES DEPT. SALEM, OREGON

RECEIVED JUN 04 2021 OWRD

Date started July 3, 1989 Completed July 8, 1989

(unbonded) Water Well Constructor Certification:

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

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 well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 25

Signed William Strong Date July 8, 1989

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

LL-1878

WATER WELL REPORT
STATE OF OREGON

9729
M 121.....29

RECEIVED
SEP 24 1984
WATER RESOURCES DEPT
SALEM, OREGON

State Well No. 8S/2W-10

State Permit No.

B-6/44

(1) OWNER:
Name MARK KRAUTMANN
Address 4194 74TH ST. S.E.
City SALEM State ORE.

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary Air [X] Driven [ ]
[redacted] Mud [ ] Dug [ ]
[redacted] [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]
Thermal: [ ] Withdrawal [ ] Reinjection [ ]

(5) CASING INSTALLED:
Steel [X] Plastic [ ]
Threaded [ ] Welded [X]
6 " Diam. from +1 ft. to 69 ft. Gauge 1/4"
[redacted]" Diam. from ..... ft. to ..... ft. Gauge .....

LINER INSTALLED:
..... " Diam. from ..... ft. to ..... ft. Gauge .....

(6) PERFORATIONS:
Perforated? [ ] Yes [X] 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 [X] No
Manufacturer's Name .....
Type ..... Model No. .....
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

[redacted] a pump test made? [ ] Yes [X] No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
Air test 50 gal./min. with drill stem at 160 ft. 2 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
[redacted] sian flow g.p.m.
[redacted] perature of water 53° Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:
Special standards: Yes [ ] No [X]
Well seal—Material used PORTLAND CEMENT
Well sealed from land surface to 69' ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 25 sacks
How was cement grout placed? CEMENT PUMP
.....
.....
Was pump installed? NO Type ..... HP ..... Depth ..... ft.
Was a drive shoe used? [ ] Yes [X] No Plugs NO Size: location ..... ft.
Did any strata contain unusable water? [X] Yes [ ] No
Type of Water? SURFACE depth of strata 18'
Method of sealing strata off CASED & CEMENTED
Was well gravel packed? [ ] Yes [X] No Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

(10) LOCATION OF WELL:
County MARION Driller's well number
¼ ¼ Section 10 T. 8S R. 2W W.M.
Tax Lot # Lot Blk Subdivision
Address at well location: 4194 [redacted] 74TH ST. SE.

(11) WATER LEVEL: Completed well.
Depth at which water was first found 80 ft.
Static level 37' ft. below land surface. Date 8-22-84
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6
Depth drilled 160 ft. Depth of completed well 160 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	2	
WEATH BASALT STICKY	2	19	
BASALT DENSE VERY HARD	19	22	
WEATH BASALT STICKY	22	64	
BASALT DENSE	64	80	
BASALT SEAMY	80	93	
BASALT DENSE	93	128	
BASALT SEAMY	128	147	
BASALT DECAMPOSED	147	160	37

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OWRD

Work started 8-6 19 84 Completed 8-22 19 84
Date well drilling machine moved off of well 8-22 19 84

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] J. Lewis (Drilling Machine Operator) Date 9-16, 1984
Drilling Machine Operator's License No. 1274

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 SNEED WELL DRILLING (Person, firm or corporation) (Type or print)
Address 2214 FRONT ST. N.E. SALEM
[Signed] James R. Lewis (Water Well Contractor)
Contractor's License No. 1274 Date 9-16, 1984

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP*12658-690

LL-1878

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

RECEIVED
JUN 25 1980
WATER RESOURCES DEPT
SALEM, OREGON

(Do not write above this line)

9736
M 37.....

State Well No. 8S/2W-10

State Permit No. .....

B-7/14

(1) OWNER:
Name Jerry Olson
Address 26350 SW 45th DR.
Wilsonville, Oregon 97070

(2) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
[redacted] ☒ Driven ☐
[redacted] ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
6 " Diam. from +1 ft. to 120 ft. Gage .250
[redacted] " Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....

(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 .....
Type ..... Model No. .....
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
[redacted] a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
"Air Test may Fluctuate "
[redacted]er test 75 gal./min. with 193 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:
Well seal—Material used Cement
Well sealed from land surface to 120 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 26 sacks
How was cement grout placed? Halliburton method
Was a drive shoe used? ☒ Yes ☐ No Plugs ..... Size: location ..... ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

(10) LOCATION OF WELL:
County Marion Driller's well number
¼ ¼ Section 10 T. 8S R. 2W W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 205 ft.
Static level 35 ft. below land surface. Date 4-12-80
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 228 ft. Depth of completed well 228 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	1	
Tan Clay	1	33	
Decomposed Rock	33	113	
Black Basalt	113	135	
Weathered Basalt	135	141	
Red Bed Rock Firm	141	155	
Tan Claystone Firm	155	160	
Badly Weathered Basalt	160	172	
Tan Claystone	172	178	
Dark Brown Claystone	178	205	
Black Petrified Wood	205	207	
gray Claystone	207	210	
Black Basalt	210	228	35'
205' - 210' 8 G.P.M.			
210' - 220' 67 G.P.M.			

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OWRD

Work started 4-8 1980 Completed 4-12 1980
Date well drilling machine moved off of well 4-12 1980

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] J.D. Mondora (Drilling Machine Operator) Date 4-15, 1980
Drilling Machine Operator's License No. 1195

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 Miller West Well Drilling (Person, firm or corporation) (Type or print)
Address 5875 Gaffin Rd. SE Salem
[Signed] Marc Mondora (Water Well Contractor)
Contractor's License No. 746 Date 4-15, 1980

USE ADDITIONAL SHEETS IF NECESSARY) SP 45656-119

LL-1878

ORIGINAL
File Original, and Duplicate with the STATE ENGINEER, SALEM, OREGON

MAP 9772

WATER WELL DRILLERS REPORT
STATE OF OREGON G 1165

Do Not Fill In — State Well No. 8/2W-10G(1)
State Permit No.

B-8/4

(1) OWNER:
Name C.J. Dallman
Address 709 E.Hoyt St.,Salem, Ore.

(2) LOCATION OF WELL:
County Marion — Owner's number, if any—
R. F. D. or Street No.
Bearing and distance from section or subdivision corner
1500 ft. west and 1400 ft. south of N.E. corner of Sec. 10, T-8-S.,R-2-W.

(3) TYPE OF WORK (check):
New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☐
Cable ☒
Dug Well ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒

FROM	ft. to	ft.	Diam.	Gage or Wall
0	65		6"	1/4"

Type and size of shoe or well ring
Describe joint 3/8" x2"-welded spring steel

If gravel packed

Diameter of Bore	from ft.	to ft.
12"	8"	65"

Size of gravel #2-round

(7) PERFORATIONS:
Type of perforator used Acetylene torch
SIZE of perforations 6 in., length, by 3/16 in.

FROM	ft. to	ft.	perf per foot	No. of rows
13"	65"	1 every 3ft.		4"

SCREENS:
Give Manufacturer's Name, Model No. and Size
None

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☒ Yes ☐ No To what depth 8 ft.
Were any strata sealed against pollution? ☐ Yes ☒ No
If yes, note depth of strata

FROM	ft. to	ft.

METHOD OF SEALING Concrete

(9) WATER LEVELS:
Depth at which water was first found 25 ft.
Standing level before perforating 10 ft.
Standing level after perforating 10 ft.

Log Accepted by:
[Signed] ..... Dated ....., 19.....
Owner

(10) WELL TESTS:
Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield:	gal./min. with	ft. draw down after	hrs.
"	"	"	"
"	"	"	"

Artesian flow ..... g.p.m.
Shut-in pressure ..... lbs. per square inch.
Bailer test 70 g.p.m. with 45 ft. drawdown
Temperature of water x Was a chemical analysis made? ☐ Yes ☒ No
Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:
Diameter of well, 6 inches.
Total depth 65 ft. Depth of completed well 65 ft.
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

ft. to	ft.	
0"	8"	Top soil-red
8"	24"	Shale -brown
24"	25"	Shale -brown (water)
25"	64"	Shale -brown (
64"	65"	Shale -brown (water)

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Ground elevation at well site 500 feet above mean sea level.
Work started Aug.,29 1955. Completed Sept.,1 1955

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME R. Stadeli & Sons
(Person, firm, or corporation) (Typed or printed)
Address Rte. 3,Box 177A,Silverton,Oregon
Driller's well number
[Signed] R. Stadeli
(Well Driller)
License No. 84 Dated Sept.,16, 1955

22-1878

MARI 19996

B-9/14

201306-94

MARI 19996

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SEP 19 1995
WATER RESOURCES DEPT
SALEM, OREGON

L 7311

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

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

(START CARD) # _____

(1) OWNER: Well Number 3140

Name OLSON FARMS, INC

Address 6925 Joseph St. S.E.

City Salem, OR State 97301 Zip

(2) TYPE OF WORK

[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [ ] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

DRAFT

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [X] No Depth of Completed Well 260 ft.

Explosives used [ ] Yes [X] No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	0	55	DryBent.	0	55	1300 lbs.
8	0	260				

After casing installed well grouted 0'-90' then redrilled

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[ ] Other As per 690-210-340

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:	8"	+1a	55	250	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:	6"	0	260	160	PSI	[X]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) none

(7) PERFORATIONS/SCREENS:

[X] Perforations Method Skilsaw (1/8" X 8")

[ ] Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
200	260		225			[ ]	[X]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

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

[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
450		259	1 hr.

Temperature of water 53° 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 _____

(9) LOCATION OF WELL by legal description:

County Marion Latitude _____ Longitude _____

Township 8S N or S Range 2W E or W. WM.

Section 10 NW 1/4 SE 1/4

Tax Lot _____ Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) _____

4495 71st St. S.E.

(10) STATIC WATER LEVEL:

126 ft. below land surface. Date 7/7/95

Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 35

From	To	Estimated Flow Rate	SWL
35	64	50+	30
190	152	450+	126

(12) WELL LOG: Ground Elevation _____

Material	From	To	SWL
Topsoil	0	2	
Brown Clay	2	35	
Broken Black Basalt	35	64	
(this portoin of the well grouted full then redrilled to seal out any water found)			
Hard Balck Basalt	64	190	
Broken Black Basalt	190	252	
Sticky Blue Clay	252	260	

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OWRD

Date started 6/22/95 Completed 7/7/95

(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 753

Signed Mark D Beck Date 7/7/95

(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.

WELL BANNING DRILLING CO. INC. WWC Number 752

LL-1878

MARI 19996

B-10/14

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

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

WELL I.D.# N/A

mari 19996

(START CARD) # 74300

(1) OWNER: Well Number 3140

Name Olson Farms, Inc.

Address 6925 Joseph Street SE

City Salem State OR Zip 97301

(2) TYPE OF WORK

[x] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:

[x] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger

[ ] Other

(4) PROPOSED USE:

[ ] Domestic [ ] Community [ ] Industrial [x] Irrigation

[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [ ] Yes [x] No Depth of Completed Well 260 ft.

Explosives used [ ] Yes [x] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
12	0	55	dry bent.	0	55	1300 lbs.
8	0	260				

After casing installed well grouted 0-90' then redrilled.

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E

[ ] Other As per 690-210-340

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:	8"	+1	55	.250	[x]	[ ]	[x]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:	6"	0	260	160PSI	[x]	[x]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) none

(7) PERFORATIONS/SCREENS:

[x] Perforations Method Skilsaw (1/8" x 8")

[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
200	260		225			[ ]	[x]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

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

[ ] Pump [ ] Bailer [x] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
450		259	1 hr.

Temperature of water 53° 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 Marion Latitude Longitude

Township 8S N or S Range 2W E or W. WM.

Section 10 NW 1/4 SE 1/4

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address) 4495 71st Street SE

(10) STATIC WATER LEVEL:

126 ft. below land surface. Date 7/7/95

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found

From	To	Estimated Flow Rate	SWL
35	64	50+	30
190	152	450+	126

(12) WELL LOG redrilled.

Ground Elevation

Material	From	To	SWL
Topsoil	0	2	
Brown clay	2	35	
Broken black basalt	35	64	
(This portion of the well grouted full then redrilled to seal out any water found.)			
Hard black basalt	64	190	
Broken black basalt	190	252	
Sticky blue clay	252	260	

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SALEM, OREGON

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JUN 04 2021
OWRD

Date started 6/22/95 Completed 7/7/95

(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 753

Signed Mark D Bea Date 7/7/95

(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.

WILLAMETTE DRILLING CO. WWC Number 753

Signed Mark D Bea Date 7/7/95

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

8-18-95

Mari
52276

MARI 52276

WEST COAST DRILLING
220 Academy Street
Mt. Angel, Oregon 97362
845-6824

RECEIVED
NOV - 1 1979
WATER RESOURCES DEPT
SALEM, OREGON

B-11114

OWNER:
Name Dennis Frank
Address 6705 Joseph St.
Salem, Oregon 97301

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [ ] Driven [ ]
Cable [ ] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED: Threaded [ ] Welded [ ]
10 " Diam. from 0 ft. to 511 ft. Gage
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(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
nufacturer's Name
ype Model No.
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
Was a pump test made? [ ] Yes [ ] No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used
Well sealed from land surface to ft.
Diameter of well bore to bottom of seal in.
Diameter of well bore below seal in.
Number of sacks of cement used in well seal sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
as a drive shoe used? [ ] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [ ] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [ ] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Marion Driller's well number
NW ¼ SW ¼ Section 10 T. 8S R. 2W W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found ft.
Static level 311 ? ft. below land surface. Date
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing
Depth drilled ft. Depth of completed well 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
Topsoil	0	1	
Clay Yellow	1	71	
Rock Brn. Decomposed	71	93	
Basalt Grey Hrd.	93	132	
Basalt Grey & Brn.	132	151	W.B.
Basalt Grey Hrd.	151	162	
Basalt Brn. Broken	162	176	W.B.
Basalt Grey & Brn. Seamy & Broken	176	257	
Basalt Grey & Green Porous	257	361	
Basalt Grey & Brn. some Broken	361	497	
Basalt Grey Porous	497	511	
Basalt Brn. & Grey Broken	511	518	

Application No. G-9461
Permit No. G-8890

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Finished
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(USE ADDITIONAL SHEETS IF NECESSARY)

WL-1878

mar
52276

WEST COAST DRILLING

220 Academy Street
Mt. Angel, Oregon 97362
845-6824

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NOV 1 1979
WATER RESOURCES DEPT
SALEM, OREGON

B-12/14

OWNER:

Name Dennis Frank
Address 6705 Joseph St.
Salem, Oregon 97301

(2) TYPE OF WORK (check):

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

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED: Threaded ☐ Welded ☐

..... " Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....

(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

nufacturer's Name .....
ype ..... Model No. .....
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

Was a pump test made? ☐ Yes ☐ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:

Well seal—Material used .....
Well sealed from land surface to ..... ft.
Diameter of well bore to bottom of seal ..... in.
Diameter of well bore below seal ..... in.
Number of sacks of cement used in well seal ..... sacks
Number of sacks of bentonite used in well seal ..... sacks
Brand name of bentonite .....
Number of pounds of bentonite per 100 gallons of water ..... lbs./100 gals.
...as a drive shoe used? ☐ Yes ☐ No Plugs ..... Size: location ..... ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☐ No Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

(10) LOCATION OF WELL:

County Driller's well number
¼ ¼ Section T. R. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found ft.
Static level 311 ? ft. below land surface. Date
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing .....
Depth drilled ft. Depth of completed well 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
Topsoil	0	1	
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Basalt Grey & Brn.	132	151	W.B.
Basalt Grey Hrd.	151	162	
Basalt Brn. Broken	162	176	W.B.
Basalt Grey & Brn. Seamy & Broken	176	257	
Basalt Grey & Green Porous	257	361	
Basalt Grey & Brn. some Broken	361	497	
Basalt Grey Porous	497	511	
Basalt Brn. & Grey Broken	511	518	

Application No. G-9401
Permit No.

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MARI 59050

B-13/14

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

Mack Drilling Company, Inc.
PO Box 12067
Salem, OR 97309

WELL I.D. # L 77203 (page one of two)

START CARD # 173661 New Well # 2

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

(1) LAND OWNER Well Number 77203
Name MacCleay Christian Retreat
Address 2887 74th SE
City Salem State OR Zip 97301

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

(3) DRILL METHOD
☑ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger ☐ Cable Mud
☐ Other

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

(5) BORE HOLE CONSTRUCTION Special Construction: ☐ Yes ☑ No
Depth of Completed Well 320 ft.
Explosives used: ☐ Yes ☑ No Type Amount

BORE HOLE Diameter	From	To	SEAL Material	From	To	Sacks or Pounds
10	0	108	Bentonite	0	1	1/2 sack
6	108	320	Cement	1	108	26 sks w/bent

How was seal placed: Method ☐ A ☐ B ☑ C ☐ D ☐ E
☑ Other Poured & Probed
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:	6	+1.5	108	.250	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☑ Outside ☐ None
Final location of shoe(s) 108.5

(7) PERFORATIONS/SCREENS
☐ Perforations Method
☐ Screens Type Material

From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☑ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
110	87		24 hrs
170		320	2 hrs

Temperature of water 54 Depth Artesian Flow Found
Was a water analysis done? ☑ Yes By whom 4B Engineering & Waterlab
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL (legal description)
County Marion
Tax Lot 600 Lot
Township 8 S Range 2 W WM
Section 3 NE 1/4 SE 1/4
Lat ° ' " or (degrees or decimal)
Long ° ' " or (degrees or decimal)
Street Address of Well (or nearest address) 74th Ave SE, Salem, OR 97301

(10) STATIC WATER LEVEL
22 ft. below land surface. Date 05-16-05
ft. below land surface. Date
Artesian pressure lb. per square inch Date

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(11) WATER BEARING ZONES
Depth at which water was first found 147

From	To	Estimated Flow Rate	SWL
147	160	5	22
210	220	2.5	22
245	255	1.5	22
302	320	170	22

(12) WELL LOG Ground Elevation

Material	From	To	SWL
Gravel Fill	0	1	
Top soil br	1	5	
Clay yellow sticky	5	24	
Clay tan-yellow silty sticky	24	44	
Clay blue light brn sticky	44	53	
Clay blue sticky	53	65	
Clay stone blue green m-hard	65	70	
Clay stone blue & brn m-hard	70	80	
Silt stone light green	80	85	
Silt stone green firm w/seams	85	123	
Silt stone drk green Sandy m-hrd	123	137	
Sand stone light grey silty m-hrd	137	147	
Silt stone light grey m-hard sandy	147	153	
Clay stone grey soft sandy	153	156	
Clay stone drk grey hard	156	160	
"CONTINUED NEXT PAGE"			

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WATER RESOURCES DEPT
SALEM, OREGON

Date Started 05-12-05 Completed 05-26-05

(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.

WWC Number 1394 Date 06/06/05
Signed

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, 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 1394 Date 06/06/05
Signed

LL-1878

06/16/2004

MARI 59050

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WATER RESOURCES DEPT
SALEM, OREGON

B-14/14

Mack Drilling Company, Inc.

Domestic ♦ Commercial ♦ Environmental ♦ Geotechnical Drilling & Well Services

(1) OWNER:

MACLEAY CHRISTIAN RETREAT

Address: *74 TH AVE SE*

City: *SALEM, OR 97301*

Well Number: 77203
Start Card # 173661

Site
SAME
NEW WELL # 2

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JUN 04 2021
OWRD

Page two of two

(12) WELL LOG: Material	From	To	SWL
******continued from page one*******			
Silt stone w/Clay stone layers	160	171	
Silt stone grey w/some Clay stone	171	208	
Basalt grey & brn w/Clay stone interbed	208	221	22
Basalt w/Clay stone interbed some sand stone coarse	221		
multi colored		266	22
Basalt grey hard	266	292	
Basalt w/Sand stone coarse	292	302	
Basalt grey & green w/Clay stone Porous	302	317	22
Basalt grey Frx	317	320	22

LL-1878

1345 20TH STREET SE ♦ P.O. BOX 12067 ♦ SALEM, OREGON 97309-0067 ♦ (503) 371-4399 ♦ FAX (503) 375-0961