



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

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JUN 01 2021

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License No.: LL-1876

**Applicant Information**

NAME Knife River Corporation – Northwest Attn: Jeff Steyaert			PHONE (HM)
PHONE (WK) (541) 918-5142	CELL		FAX
ADDRESS 32260 Old Highway 34			
CITY Tangent	STATE OR	ZIP 97389	E-MAIL * jeff.steyaert@kniferiver.com

**Agent Information**

NAME Steven R. Bruce Skookum Water Associates Inc.			PHONE (503) 319-8926	FAX
ADDRESS 1626 Victorian Way			CELL	
CITY Eugene	STATE OR	ZIP 97401	E-MAIL * steve@skookumwater.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:

- SOURCE(S) OF WATER:** Up to Four Wells a tributary of Crooked River
- AMOUNT OF WATER** to be diverted;  
 Maximum and instantaneous rate (cubic feet or gallons per minute): 500 gpm  
 Total volume (gallons or acre-feet): 239 AF/year but consumptive use is 20% of this total volume (see Remarks). If water is to be used from more than one source, give the quantity from each: NA – the source aquifer is sand & gravel (see CROO 50140).
- INTENDED USE(S) OF WATER:** (check all that apply)
  - Road construction or maintenance
  - General construction
  - Forestland and rangeland management; or
  - X Other: Industrial & Commercial - Aggregate washing, dust control and general cleanup
- 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: Water will be pumped from up to two wells using a 50-hp submersible pumps and conveyed by pipeline to a pond and reservoir for use. The water from aggregate washing will be reused repeatedly.
- PROJECT SCHEDULE:** (List day, month, and year)  
 Date water use will begin: As soon as license is issued  
 Date water use will be completed: June 15, 2026

Months of the year water would be diverted and used: As soon as license is issued until June 15, 2026  
 If for other than irrigation from stored water, how and where will water be discharged after use: Water used for the described purposes will be rediverted to a pond and reservoir for reuse. Consumptive use is expected to be less than 20 percent of the total rate and volume proposed to be diverted.

Applicant Signature

Jeff Steyaert; Assist. Secretary  
 Print Name and title if applicable

5-26-2021  
 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 tied 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:** Up to two wells will be used. Additional locations are proposed in case PSI is identified.

Water is needed to augment water from the Ochoco Irrigation District during drought years. The water used in the aggregate washing will be returned to a sump for reuse. This type of reuse is common in aggregate mining. Consumptive use is expected to be less than 20 percent of the total rate and volume proposed to be diverted. Given this, the consumptive use would be 47.9 AF/year based on a consumptive use of 100 gpm for 50 hours/week x 52 weeks/year and assuming no water is available from the Ochoco Irrigation District.

For WRD Use Only

# 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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## NOTE TO APPLICANTS

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

**This form is NOT required if:**

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

## NOTE TO LOCAL GOVERNMENTS

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

# Land Use Information Form



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

Applicant(s): Knife River Corporation – Northwest Attn: Jeff Steyaert

Mailing Address: 32260 Old Highway 34

City: Tangent

State: OR

Zip Code: 97389

Daytime Phone: (541) 918-5142

## 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:
14 South	15 East	14	NE SW	703		<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	Commercial/Industrial
14 South	15 East	14	SE SW	702 & 703		<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	Commercial/Industrial
14 South	15 East	14	SW SE	703		<input type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	Commercial/Industrial

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

Crook County

## 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: 500  cubic feet per second     gallons per minute     acre-feet

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

Briefly describe:

Water will be pumped from one or two wells into a pond and reservoir and then used for aggregate washing, dust control and general site cleanup year-round for up to 5 years. Water not consumed in these operations (expected to be about 80 percent) will be reused. This type of water use is common at aggregate mines. The consumptive use is expected to be 47.9 AF/year.

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**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. →

## 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:	
Site plan & conditional use approval - file #	217-15-000115-PLNG	<input checked="" type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
	217-15-000350-PLNG	<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
	217-18-000347-PLNG	<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

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

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Name: Katie McDonald Title: Planner **OWRD**  
 Signature: *Katie McDonald* Phone: 541-447-3211 Date: 5/27/21  
 Government Entity: Crook 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: \_\_\_\_\_

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This page to be completed by the local Watermaster.

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WATER AVAILABILITY STATEMENT

Name of Applicant: Knife River Corp. - NW Limited License Number: LL-1876

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

Yes  No

If yes, please explain:

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?

*Subtle long-term decline in groundwater head in the Lamonte area due to climatic conditions and on-going development.*

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?

*Applicant must mitigate the consumptive use in the appropriate zone of impact. Based on information in the application, aggregate washing, dust control, and general cleanups are all 100% consumptive use.*

5. Any other recommendations you would like to make?

*User to install flow meters on all applicable P.O.A.'s (Wells).  
User to maintain accurate pumping records for duration of limited license.*

Signature *Willie D. Johnson* WM District#: \_\_\_\_\_ Date: *5/27/21*



May 28, 2021  
Project No. 10166.01



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem, OR 97301-1271



**Water-Use Estimates to Support a Limited License Application  
Knife River Corporation Prineville, Oregon Facility  
Crook County, Oregon**

To Whom It May Concern:

In accordance with our May 27, 2021 conversation with Dwight French, we are providing the following estimates of the proposed year-round water uses described in the attached limited license application being filed by the Knife River Corporation. This information is intended to assist the Department with identifying the number of mitigation credits needed to offset the proposed groundwater use.

The application is requesting 500 gallons per minute (gpm) of groundwater from wells for commercial/industrial use. More specifically, the water would be used for aggregate washing, dust control and general cleanup. Water is needed this year under a limited license because the Ochoco Irrigation District, the customary water supplier for the facility, is only able to provide 80 gpm of water, instead of the full volume requested in this application. The application also requests the license for 5 years in case reduced deliveries from the District continue for several years. Knife River is aware that the mitigation credits would need to be purchased every year that the license is in effect.

The estimates below are based on pumping up to 10 hours/day during a 5 day/workweek each year (52 weeks assumed). This is equivalent to 2,600 hours or 156,000 minutes each year. For convenience, the following first summarizes the estimated dust control and general cleanup rates and duties, followed by the aggregate washing estimates.

**Dust Control and General Cleanup Estimates**

The dust control and general cleanup activities are considered to be 100% consumptive. The dust control uses are projected to consist of filling a 3,000-gallon-capacity water truck 3 times/day for a total of 9,000 gallons per day (gpd). General cleanup uses would typically involve using hoses to wash equipment at about 30 gpm for up to 3 hours/day, which is approximately 5,400 gpd. Combined these uses would total approximately 14,500 gpd.

The 14,500 gpd volume would approximately equate to 24.1 gpm when averaged over a 10-hour day. Based on the 24.1 gpm average, we propose a rate of 25 gpm for these consumptive uses. Multiplying 25 gpm by 156,000 minutes/year yields a total use of 3.9 million gallons/year (MG/year) or essentially 12 acre-feet/year (AF/year).

**Aggregate Washing Estimates**

Aggregate washing would constitute the majority of the water use and is only partially consumptive. As with many aggregate mines in Oregon, this process recycles water. Water losses from these operations at the site would be related to evaporation, seepage from the unlined settling pond (which recharges groundwater in the vicinity) and water retained on the aggregate trucked from the site. The consumptive

LL-1876



use for aggregate washing has been estimated to be 20%, based on past discussions with Bruce Estes (Estes Surveys LLC).

For estimating purposes, we assume the balance of the requested water not consumed for dust control and general cleanup would be used for aggregate washing. The application requests a rate of 500 gpm and a total volume of 239.4 AF/year. Therefore, subtracting the 25 gpm and 12 AF/year from this total would provide 475 gpm and 227.4 AF/year for aggregate washing. An averaged water loss of 20% from the 475 gpm and 227.4 AF/year would approximately equal 95 gpm and 45.5 AF/year.

**Other Considerations**

The above estimates of 12 AF/year for dust control and general cleanup and 45.5 AF/year for aggregate washing total 57.5 AF/year of consumptive use.

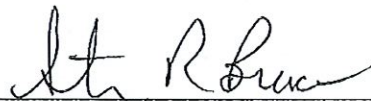
The following are two key factors that would affect the proposed water use under the Limited License Application.

- The 80 gpm of water the District plans to deliver to Knife River in 2021 has not been included in the above estimates. This water source would be expected to reduce the rate and volume of groundwater needed this year under the limited license. Water use in the other 4 years requested under the limited license may be substantially less if the District delivers more water during that time.
- Water lost to seepage from the unlined pond will recharge the aquifer in the vicinity from which the water would be pumped.

Please call or email us if you have any questions regarding this letter.

Sincerely,

**SKOOKUM WATER ASSOCIATES INC.**



Steven R. Bruce, RG, CWRE  
Principal

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**JUN 01 2021**

**OWRD**

Enclosures

cc. Jeff Steyaert; Knife River Corporation

# Amended Well Report

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

CR00  
50140

L01442 L01435 per  
driller  
 (START CARD) # 71925

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

(1) OWNER: Well Number 795  
 Name Prinville Saw Mill Corp  
 Address 126 W Fifth St  
 City Prinville State OR Zip 97254

(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 255 ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
12	0	165	Ben-wire	0	25	37
			Concrete	25	165	40

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: 8	2	255	250	<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) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

Perforations Method Factory  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
250	255	3/32	30	8		<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Pump  Bailor  Air  Flowing Artesian  
 Yield gal/min 300 Drawdown 80 Drill stem at \_\_\_\_\_ Time 1 hr.

Temperature of water 54 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 Clatsop Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township 14 N or (S) Range 15 (E) or W. WM.  
 Section 14 SE 1/4 SW 1/4  
 Tax Lot 702 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) \_\_\_\_\_

(10) STATIC WATER LEVEL:  
24 ft. below land surface. Date 7-15-96  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found 60'

From	To	Estimated Flow Rate	SWL
60	50	50	80
236	255	300+	24

(12) WELL LOG:  
 Ground Elevation \_\_\_\_\_

Material	From	To	SWL
Gravel fill	0	2	
Top Soil	2	4	
Hard gravel cong.	4	26	
Brown sandy silty	26	66	60
Black sand fine & silt	66	80	
light gray clay soft	80	236	
Gravel & sand	236	255	24

Date started 6-11-96 Completed 7-15-96

(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.

Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
 Date \_\_\_\_\_

(bonded) Water Well Constructor Certification:  
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. 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 387

LL-1876

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

CROO  
50140

L01442 1435

(START CARD) # 71925

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

(1) OWNER: Well Number 795  
Name Rainville Sawmill Comp.  
Address 126 W First St  
City Rainville State Oreg. Zip 97254

(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 Do Not Complete Well 255 ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

Diameter		Material		Sacks or pounds	
From	To	From	To	From	To
0	165	Benjenite	0	25	37
		Cement	25	165	40

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

Casing/Liner	Diameter	From	To	Gauge	Steel		Plastic		Welded		Threaded	
					Yes	No	Yes	No	Yes	No	Yes	No
Casing	8	0	255	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(7) PERFORATIONS/SCREENS:

Perforations Method Factory  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
250	255	1/2 x 3/32	30	8"		<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Pump  Bailor  Air  Flowing Artesian  
Yield gal/min 300 Drawdown 80 Drill stem at \_\_\_\_\_ Time 1 hr.

Temperature of water 54 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 Clatsop Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 14 N or S Range 15 E or W. WM.  
Section 14 1/4 SE 1/4 SW 1/4  
Tax Lot 702 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) \_\_\_\_\_

(10) STATIC WATER LEVEL:  
24 ft. below land surface. Date 7-15-96  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
Depth at which water was first found 60'

From	To	Estimated Flow Rate	SWL
60	80	50	60
236	255	300+	24

(12) WELL LOG:  
Ground Elevation \_\_\_\_\_

Material	From	To	SWL
Gravel fill	0	2	
Top Soil	2	4	
Hard gravel cong.	4	26	
Brown sandy clay	26	66	60
Black sand fine silt	66	80	
Light clay clay soil	80	236	
Gravel & sand	236	255	24

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SEP 20 1996 JUN 01 2021  
WATER RESOURCES DEPT  
SALEM, OREGON OWRD

Date started 6-11-96 Completed 7-15-96  
(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.  
Signed \_\_\_\_\_ Date \_\_\_\_\_ WWC Number \_\_\_\_\_

(bonded) Water Well Constructor Certification:  
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.  
Signed Daniel M. [Signature] WWC Number 584 Date 7-25-96

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