

**CLAIM OF  
BENEFICIAL USE  
for Groundwater Permits  
claiming more than 0.1 cfs**



**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 permits  
with priority dates of July 9, 1987, or later.**

**A separate form shall be completed for each permit.**

*In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.*

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 8" 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>

**SECTION 1  
GENERAL INFORMATION**

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**1. File Information:**

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APPLICATION # <b>G-14150</b>	PERMIT # (IF APPLICABLE) <b>G-18889</b>	PERMIT AMENDMENT # (IF APPLICABLE) <b>T-11889</b>
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**2. Property Owner (current owner information):**

APPLICANT/BUSINESS NAME <b>ULUPALAKUA RANCH, INC</b>		PHONE NO. <b>808-878-1202</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>HC-1 BOX 901</b>			
CITY <b>KULA</b>	STATE <b>HI</b>	ZIP <b>96790-9302</b>	E-MAIL <b>ulupalakuamm@hawaii.rr.com</b>

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

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

PERMIT HOLDER OF RECORD <b>SAME</b>		
ADDRESS		
CITY	STATE	ZIP

ADDITIONAL PERMIT HOLDER OF RECORD		
ADDRESS		
CITY	STATE	ZIP

**4. Date of Site Inspection:**

<b>11-1-2022</b>
------------------

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
<b>TRAVIS SEVERANCE</b>	<b>11-1-2022</b>	<b>MANAGER</b>

**6. County:**

<b>CROOK</b>
--------------

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

OWNER OF RECORD <b>N/A</b>		
ADDRESS		
CITY	STATE	ZIP

Add additional tables for owners of record as needed

**SECTION 2  
SIGNATURES**

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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 <b>LINDA LEE MILLER</b>		PHONE NO.	ADDITIONAL CONTACT NO. <b>John Short 541-389-2837</b>
PROJECT # <b>22073</b>			
ADDRESS <b>PO BOX 1830</b>			
CITY <b>BEND</b>	STATE <b>OR</b>	ZIP <b>97703</b>	E-MAIL

Permit Holder of Record Signature or Acknowledgement

*Each permit 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
	Sumner P. Erdman	President	2/22/24

## SECTION 3

### CLAIM DESCRIPTION

**1. Point of appropriation name or number:**

POINT OF APPROPRIATION (POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
WELL	CROO 53900	L-103113

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

**2. Point of appropriation source, if indicated on permit:**

POA NAME OR NUMBER	SOURCE BASIN LOCATED WITHIN	TRIBUTARY
WELL	CROOKED RIVER BASIN	

**3. Developed use(s), period of use, and rate for each use:**

POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
WELL	IR	HAY/PASTURE	FEB 1 - DEC 1	1.52 CFS
"	IS	"	"	3.08 CFS
<b>Total Quantity of Water Used</b>				<b>3.34 CFS</b>

**4. Provide a general narrative description of the distribution works.** This description must trace the water system from each point of appropriation to the place of use:

**WATER IS PUMPED FROM WELLS DIRECTLY TO PIPELINES AND TO A BULGE RESERVOIR AND DIRECTLY TO SPRINKLER SYSTEMS INCLUDING PIVOTS, K-LINE PODS, & BIG GUN TRAVELER. WATER IS ALSO PUMPED INTO SURFACE WATER FLOOD IRRIGATION DITCH SYSTEM AS NEEDED FOR SUPPLEMENTAL IRRIGATION.**

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

**5. Variations:**

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below. YES NO

*(e.g. "The permit allowed three points of appropriation. The water user only developed one of the points." or "The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.")*

**THE PERMIT ALLOWED 270 ACRES OF PRIMARY IRRIGATION AND 268.2 ACRES OF SUPPLEMENTAL IRRIGATION. THE WATER USER DEVELOPED 121.7 ACRES OF PRIMARY IRRIGATION AND 246.3 ACRES OF SUPPLEMENTAL IRRIGATION.**

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**SECTION 3  
CLAIM DESCRIPTION**

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<b>WELL</b>	<b>CROO 53900</b>	<b>L-103113</b>

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

**2. Point of appropriation source, if indicated on permit:**

POA NAME OR NUMBER	SOURCE BASIN LOCATED WITHIN	TRIBUTARY
<b>WELL</b>	<b>CROOKED RIVER BASIN</b>	

**3. Developed use(s), period of use, and rate for each use:**

POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
<b>WELL</b>	<b>IR</b>	<b>HAY/PASTURE</b>	<b>FEB 1 - DEC 1</b>	<b>1.52 CFS</b>
"	<b>IS</b>	"	"	<b>3.08 CFS</b>
<b>Total Quantity of Water Used</b>				<b>3.34 CFS</b>

**4. Provide a general narrative description of the distribution works. This description must trace the water system from each point of appropriation to the place of use:**

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**5. Variations:**

Was the use developed differently from what was authorized by the permit, YES NO permit amendment final order, or extension final order? If yes, describe below.

(e.g. "The permit allowed three points of appropriation. The water user only developed one of the points." or "The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.")

**THE PERMIT ALLOWED 270 ACRES OF PRIMARY IRRIGATION AND 268.2 ACRES OF SUPPLEMENTAL IRRIGATION. THE WATER USER DEVELOPED 121.7 ACRES OF PRIMARY IRRIGATION AND 246.3 ACRES OF SUPPLEMENTAL IRRIGATION.**

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**6. Claim Summary:**

<b>POA NAME OR #</b>	<b>MAXIMUM RATE AUTHORIZED</b>	<b>CALCULATED THEORETICAL RATE BASED ON SYSTEM</b>	<b>AMOUNT OF WATER MEASURED</b>	<b>USE</b>	<b># OF ACRES ALLOWED</b>	<b># OF ACRES DEVELOPED</b>
<b>WELL</b>	<b>1.52 CFS</b>	<b>5.8 CFS</b>	<b>N/A</b>	<b>IR</b>	<b>270.0 AC</b>	<b>121.7 AC</b>
<b>WELL</b>	<b>3.08 CFS</b>	<b>5.8 CFS</b>	<b>N/A</b>	<b>IS</b>	<b>268.2 AC</b>	<b>246.3 AC</b>

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**SECTION 4  
SYSTEM DESCRIPTION**

**Are there multiple POAs?**

YES NO

If "YES" you will need to copy and complete a separate Section 4 for each POA.

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

**WELL CROO 53900 / L-103113**

**A. Place of Use**

**1. Is the right for municipal use?**

YES NO

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
15S	15E	W.M.	13	SESW			IR	0.3	
"	"	"	"	NESE			IR	6.3	
"	"	"	"	NWSE			IR	0.6	
"	"	"	"	SWSE			IR	18.4	
"	"	"	"	SESE			IR	11.9	
"	"	"	"	SESE			(IS)		11.4
"	"	"	24	NENE			(IS)		33.2
"	"	"	"	NWNE			IR	23.0	
"	"	"	"	NWNE			(IS)		3.4
"	"	"	"	SWNE			IR	12.6	
"	"	"	"	SWNE			(IS)		6.0
"	"	"	"	SENE			IR	1.2	
"	"	"	"	SENE			(IS)		14.4
"	"	"	"	NENW			IR	5.4	
"	"	"	"	NESE			(IS)		18.1
"	"	"	"	NWSE			IR	2.9	
"	"	"	"	NWSE			(IS)		6.0
"	"	"	"	SWSE			IR	17.0	
"	"	"	"	SESE			IR	6.9	
"	"	"	"	SESE			(IS)		3.1

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TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
15S	15E	W.M.	25	NENE			(IS)		0.7
"	"	"	"	NWNE			(IS)		16.5
"	"	"	"	SWNE			(IS)		1.1
15S	16E	"	18	SENW			(IS)		3.9
"	"	"	"	NESW			IR	0.3	
"	"	"	"	NESW			(IS)		26.0
"	"	"	"		L3		IR	8.3	
"	"	"	"		L3		(IS)		0.7
"	"	"	"		L4		IR	6.6	
"	"	"	"		L4		(IS)		13.9
"	"	"	"	SESW			(IS)		14.4
"	"	"	"	NWSE			(IS)		1.5
"	"	"	"	SWSE			(IS)		1.3
"	"	"	19	NENW			(IS)		36.0
"	"	"	"		L1		(IS)		14.0
"	"	"	"	SENW			(IS)		16.0
"	"	"	"	NESW			(IS)		4.7
<b>Total Acres Irrigated</b>								<b>121.7</b>	<b>246.3</b>

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Glot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Glot, and QQ.

**B. Groundwater Source Information (Well)**

1. Is the appropriation from a well? YES NO

If "NO", items 2 through 4 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well:

1/2" PIPE WITH THREADED CAP IN CONCRETE FOOTING

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
N/A						

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

N/A

**C. Groundwater Source Information (Sump)**

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

YES NO

If "NO", items 2 through 4 relating to this section may be deleted.

**D. Diversion and Delivery System Information**

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of appropriation to the place of use.

1. Is a pump used?

YES NO

If "NO" items 2 through item 6 may be deleted.

**2. Pump Information:**

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
			<b>SUBMERSIBLE</b>		

**3. Motor Information:**

MANUFACTURER	HORSEPOWER
	<b>60 HP</b>

**4. Theoretical Pump Capacity:**

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
<b>60</b>	<b>20</b>	<b>20'</b>	<b>2'</b>	<b>5.80 CFS</b>

**5. Provide pump calculations:**

**SEE ATTACHED OWRD PUMP CALCULATIONS.**

**6. 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)
<b>N/A</b>			

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

7. Is the distribution system piped?

YES NO

If "NO" items 8 through item 13 may be deleted.

**8. Mainline Information:**

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
<b>6"</b>	<b>15,199'</b>	<b>PVC</b>	<b>BURIED</b>
<b>4"</b>	<b>4,892'</b>	<b>"</b>	<b>"</b>
<b>3"</b>	<b>941'</b>	<b>"</b>	<b>"</b>

**9. Lateral or Handline Information:**

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND

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**10. Sprinkler Information:**

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
<b>BIG GUN 1"</b>	<b>80</b>	<b>260 GPM</b>	<b>1</b>	<b>1</b>	<b>0.58 CFS</b>
<b>K-LINE PODS</b>	<b>45</b>	<b>3.17 GPM</b>	<b>237</b>	<b>90</b>	<b>0.64 CFS</b>

Reminder: For sprinkler output determination use the reference information at the end of this document.

**11. Drip Emmitter Information:**

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)

**12. Drip Tape Information:**

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION

**13. Pivot Information:**

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
<b>PIERCE</b>	<b>1090'</b>	<b>15</b>	<b>493 GPM</b>	<b>1.10 CFS</b>
<b>"</b>	<b>860'</b>	<b>20</b>	<b>390 GPM</b>	<b>0.87 CFS</b>
<b>"</b>	<b>940'</b>	<b>20</b>	<b>425 GPM</b>	<b>0.95 CFS</b>

**E. Storage**

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)?

YES NO

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a:

Storage Tank

YES NO

Bulge in System / Reservoir

YES NO

Complete appropriate table(s), unused table may be deleted.

**2. Storage Tank:**

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED

**3. Bulge in System / Reservoir:**

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
<b>BULGE-IN-SYSTEM</b>	<b>21'</b>	<b>24 AF</b>

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**F. Gravity Flow Pipe**

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES NO

If "NO", items 2 through 4 relating to this section may be deleted.

**G. Gravity Flow Canal or Ditch**

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

YES NO

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL / DITCH	SLOPE	COMPUTED RATE (IN CFS)
EARTH	4'	2'	2'	0.034	6'	1790'	0.3%	14.4 CFS

3. Provide calculations:

**SEE ATTACHED OWRD DITCH CALCULATIONS.**

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)

Attach measurement notes.

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

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**SECTION 5**

## CONDITIONS

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

### 1. Time Limits:

Permits and extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or permit extension order:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	6-12-2015		
BEGIN CONSTRUCTION (A)	6-12-2016	6-6-2011	WELL CONSTRUCTION STARTED
COMPLETE CONSTRUCTION (B)	10-1-2023	6-15-2011	WELL CONSTRUCTION COMPLETED
COMPLETE APPLICATION OF WATER (C)	10-1-2024	11-1-2022	COMPLETE APPLICATION OF WATER TO BENEFICIAL USE

\* MUST BE WITHIN PERIOD BETWEEN PERMIT, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

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

*If "NO", items a and b relating to this section may be deleted.*

### 3. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement? YES NO

*If "NO", items b through d relating to this section may be deleted.*

### 4. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements? YES NO

*If "NO", items b through e relating to this section may be deleted.*

### 5. Pump Test:

a. Did the permit require the submittal of a pump test? YES NO

Ground water permits with priority dates on or after **December 20, 1988**, require the submittal of a pump test prior to issuance of a certificate. In some cases, the permit holder may qualify for a multiple well exemption or an unreasonable burden exemption.

For additional information regarding pump tests see:

<https://www.oregon.gov/OWRD/programs/GWWL/GW/Pages/PumpTestProgram.aspx>

*If "NO", items b through e relating to this section may be deleted.*

b. Has the pump test been previously submitted to the Department? YES NO

c. Is the pump test attached to this claim? YES NO

d. Has the pump test been approved by the Department? YES NO

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e. Has a pump test exemption been approved by the Department? **YES** **NO**

**\*\* Claims will not be reviewed until a pump test or exemption has been approved by the Department**

**6. Measurement Conditions:**

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? **YES** **NO**

*If "NO", items b through f relating to this section may be deleted.*

**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 diversion or appropriation.**

b. Has a meter been installed? **YES** **NO**

**c. Meter Information**

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
<b>WELL</b>	<b>SEAMETRICS</b>	<b>1020140 01667</b>	<b>WORKING</b>	<b>OFF</b>	<b>MARCH 2022</b>

*If a meter has been installed, items d through f relating to this section may be deleted.*

**7. Recording and reporting conditions:**

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

*If "NO", item b relating to this section may be deleted.*

b. Have the reports been submitted? **YES** **NO**

If the reports have not been submitted, attach a copy of the reports if available.

**8. Other conditions required by permit, permit amendment final order, or extension final order:**

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

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

c. Was submittal of a water management and conservation plan required? **YES** **NO**

d. Was a Well Identification Number (Well ID tag) assigned and attached to the well? **YES** **NO**

WELL ID #	DATE ATTACHED TO WELL
<b>L-103113</b>	<b>2011</b>

e. Other conditions? **YES** **NO**

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

[Empty box for user response]

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**SECTION 6  
ATTACHMENTS**

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

ATTACHMENT NAME	DESCRIPTION
CBU Map	Claim of Beneficial Use Map
Well Log	CROO 53900
Pump Calcs	OWRD Pump Capacity Calculations
Ditch Calcs	OWRD Ditch Capacity Calculations

**SECTION 7  
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.

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.

**ON-SITE DIRECT MEASUREMENT AND NAIP IMAGERY.**

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

06-26-2011

WELL LABEL # L 103113

START CARD # 1013709

(1) LAND OWNER

Owner Well I.D.
First Name Last Name
Company ULUPALAKUA RANCH INC
Address 5455 S CROOKED RIVER HWY
City PRINEVILLE State OR Zip 97754

(2) TYPE OF WORK [X] New Well [ ] Deepening [ ] Conversion
[ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD

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

(4) PROPOSED USE [ ] Domestic [X] Irrigation [ ] Community

[ ] Industrial/ Commercial [ ] Livestock [ ] Dewatering
[ ] Thermal [ ] Injection [ ] Other

(5) BORE HOLE CONSTRUCTION Special Standard [ ] (Attach copy)

Depth of Completed Well 70.00 ft.

Table with columns: Dia, From, To, Material, SEAL, From, To, Amt, sacks/lbs

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

[X] Other Poured IN Dry

Backfill placed from ft. to ft. Material

Filter pack from ft. to ft. Material Size

Explosives used: [ ] Yes Type Amount

(6) CASING/LINER

Table with columns: Casing Liner, Dia, From, To, Gauge, Stl, Plstc, Wld, Thrd

Shoe [ ] Inside [X] Outside [ ] Other Location of shoe(s) 26

Temp casing [ ] Yes Dia From To

(7) PERFORATIONS/SCREENS

Perforations Method

Screens Type Material

Table with columns: Perf/S, Casing/Screen, Dia, From, To, Scm/slot width, Slot length, # of slots, Tele/pipe size

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

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

Table with columns: Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr)

Temperature 58 °F Lab analysis [ ] Yes By

Water quality concerns? [ ] Yes (describe below)

Table with columns: From, To, Description, Amount, Units

(9) LOCATION OF WELL (legal description)

County Crook Twp 15.00 S N/S Range 16.00 E E/W WM
Sec 19 NW 1/4 of the NW 1/4 Tax Lot 101
Tax Map Number Lot
Lat " or DMS or DD
Long " or DMS or DD
[ ] Street address of well [ ] Nearest address

5455 S CROOKED RIVER HWY

(10) STATIC WATER LEVEL

Table with columns: Date, SWL(psi), SWL(ft)

WATER BEARING ZONES Depth water was first found 45

Table with columns: SWL Date, From, To, Est Flow, SWL(psi), SWL(ft)

(11) WELL LOG

Ground Elevation

Table with columns: Material, From, To

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Date Started 06-06-2011 Completed 06-15-2011

(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.

License Number Date

Electronically Filed

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.

License Number 1583 Date 06-26-2011

Electronically Filed

Signed DAVID A SCHLICHTING (E-filed)

Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK





<b>Pump Capacity Calculation Sheet</b>		<b>CROQ 53900 / L-103113 WHITE DEER RANCH</b>					
using Department designed formula:							
$(hp)(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$							
Efficiency:							
Centrifugal = 6.61							
Turbine = 7.04							
<b>Data Entry (fill in underlined blanks)</b>							
	HP =	<u>60</u>					
	Efficiency =	<u>7.04</u>					
	Lift =	<u>22</u>					
	PSI =	<u>20</u>					
<b>Results Calculated</b>							
	$(hp)(\text{efficiency}) =$	<u>422.4</u>					
	Head based on psi =	<u>50.8</u>					
	Total dynamic head =	<u>72.8</u>					
	(head + lift)						
	<b>Pump Capacity =</b>	<b><u>5.80</u></b>					
			<b>cubic feet per second</b>				

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<b>Ditch Capacity Calculator</b>				
using Manning's Formula				
<b>Data Entry (fill in underlined blanks)</b>				
Top Width =	<u>4</u>	feet		
Bottom Width =	<u>2</u>	feet		
Depth =	<u>2</u>	feet		
Fall =	<u>6</u>	feet	per	<u>1790</u> feet of distance
Grade =	<u>0.003351955</u>	, or	<u>0.3%</u>	
n Factor =	<u>0.03</u>			
<b>Results calculated</b>				
Area of cross-section =	<u>6</u>	square feet		
Wetted Perimeter =	<u>6.472135</u>	feet		
Hydraulic Radius =	<u>0.927050</u>			
Velocity =	<u>2.406</u>	feet per second		
<b>Calculated Ditch Capacity =</b>	<b><u>14.4</u></b>	<b>cubic feet per second</b>		

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