

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-122891. Owner Frank RichardsonPhone No. 208-631-7128Current address 18330 S Cloverdae Rd, Kuna, ID 836342. Examiner's name Cody ParkerEXAM DATE April 13, 20183. Accompanied by Frank Richardson

Email _____

Address _____

Relationship to permit holder Owner

Phone No. _____

4. Source Ground water

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use None2. Other water rights with the same source and point of diversion None**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

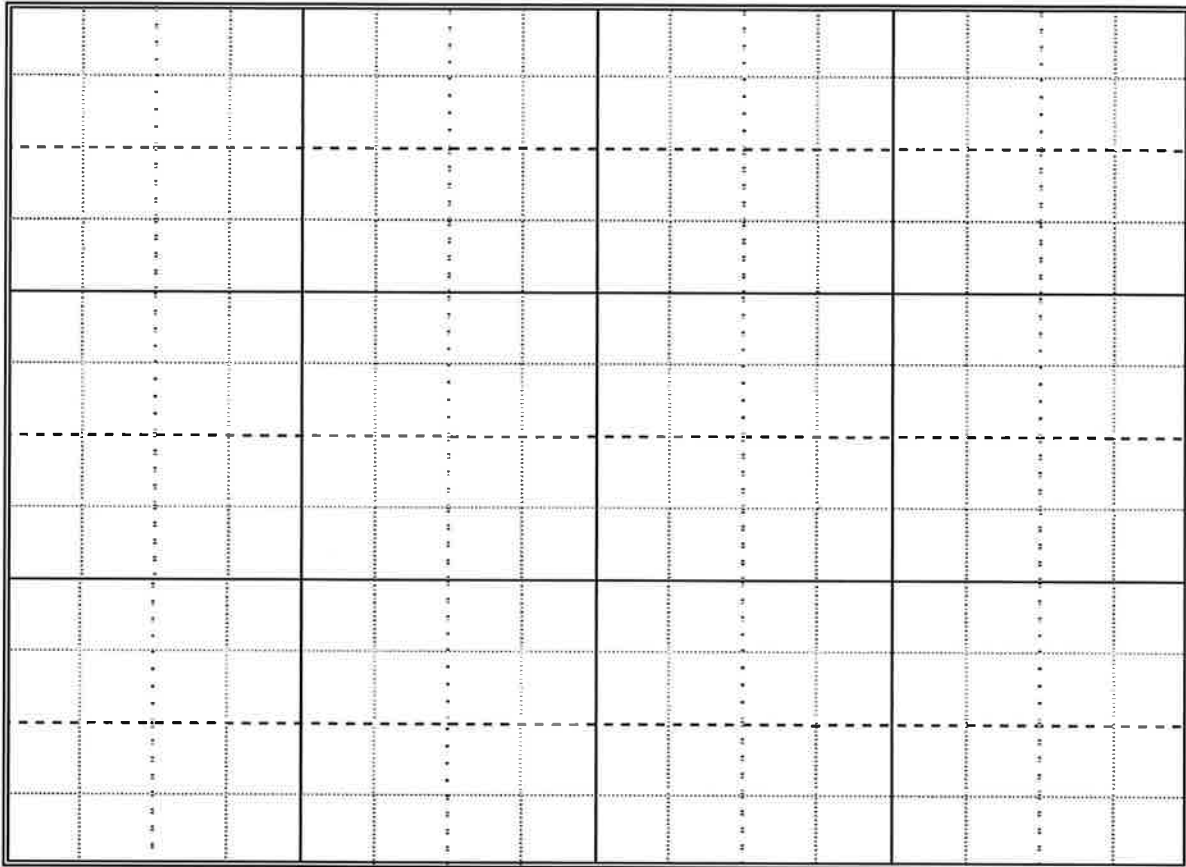
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			NW	SW	10	01N	01E	Ada	GPS, digital PLS map

2. Place(s) of Use:

Method of determination aerial imagery (GE 2016), site visit, digital PLS

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	01E	10										7.3							7.3
												D							

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.



Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (**required**)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well ID 297906		7.5		Grundfos	2" discharge @ 60 psi

*Code to correspond with no. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
None						

2. **Measurements:** _____

3 zones pop-ups @ 15 sprinklers/zone and 1.0 gpm/sprinkler

17 Nelson R2000WF sprinklers on 2" PE K-line @ 3.0 gpm/sprinkler

1 Rain Bird impact sprinkler head, 7/32" nozzle, 10.7 gpm

E. NARRATIVE/REMARKS/COMMENTS

This permit authorizes diversion of 0.20 cfs groundwater for domestic use and irrigation of up to 10.0 acres. Proof was submitted on September 29, 2017. I completed this exam on April 13, 2018 accompanied by the permit holder. The property is accessed from S. Cloverdale Rd., south of Chiefs Ln.

The point of diversion is a 6" well with no metal tag. The well was drilled for the permit holder in 1996. The well log he had matched the one included in this exam. The well is 307 ft deep with a static water level of 180 ft BGS. It is located at N 43 26'07.1" by W 116 20'00.9" in the NWSW of Sec 10, T01N, R01E, B.M.

A 7.5-hp variable speed pump diverts water from the well through a 2" line to an 81-gallon pressure tank. Discharge pressure is 60 psi. The capacity of the pumping system is 0.14 cfs. After the pressure tank, water is diverted to pop up sprinkler heads around the lawn, to an impact sprinkler watering an orchard, and to 2" risers where K-line is hooked up to to water a crop of clover and saffron. In total, there are 7.3 acres that have been irrigated up to this point.

The limiting rate for the irrigation system is the pumping capacity (0.14 cfs), which is the rate I have recommended. The annual volume is determined from the headgate requirement (4.5 afa/acre). I recommend 0.04 cfs and 0.6 afa for the domestic component per Admin AP Memo 22. The overall diversion rate is 0.14 cfs.

The proof of beneficial use has not been scanned into the backfile for this right. I got a copy of the proof from the owner at the time of the exam along with the receipt he was given when he payed. The proof and receipt are included in the file with the exam.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attachedMeasured Method:
IRRIGATION

7.3 acres irrigation x 0.02 cfs/acre = 0.15 cfs

Max irrigation at one time: PU spklr (15 gpm) + K-Line (51 gpm) + Impact spklr (10.7 gpm) = 76.7 gpm = 0.17 cfs

DOMESTIC = 0.04 cfs per Admin AP Memo 22

Pump capacity = $(8.8 \times 0.7 \times 7.5 \text{ hp}) / (190 \text{ ft} + 2.31(60 \text{ psi})) = 0.14 \text{ cfs}$ (limits irrigation rate and combined rate)**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 7.3 \text{ acres} \times 4.5 \text{ afa/acre} = 32.9 \text{ afa}$ $V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.14 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 72.2 \text{ afa}$ $V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 32.9 \text{ afa}$

2. Volume Calculations for Other Uses:

Domestic = 0.6 afa per Admin AP Memo 22 (irrigation listed separately)

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	03/01	11/15	0.14 cfs	32.9 afa
Domestic	01/01	12/31	0.04 cfs	0.6 afa
Totals:			0.14 cfs	33.5 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature



Date

6/4/18

Reviewer



Date

6/4/18

SEAL

Right No. 63-12289

Beneficial Use Field Report

System Diagram

WRA Cody Parker



State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-12289

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

01E



- Point of Diversion
- ▨ Place Of Use Boundary
- ▭ Townships
- ▭ PLS Sections

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-12289

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

0 0.035 0.07 0.14 Miles



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT
Picture Attachment

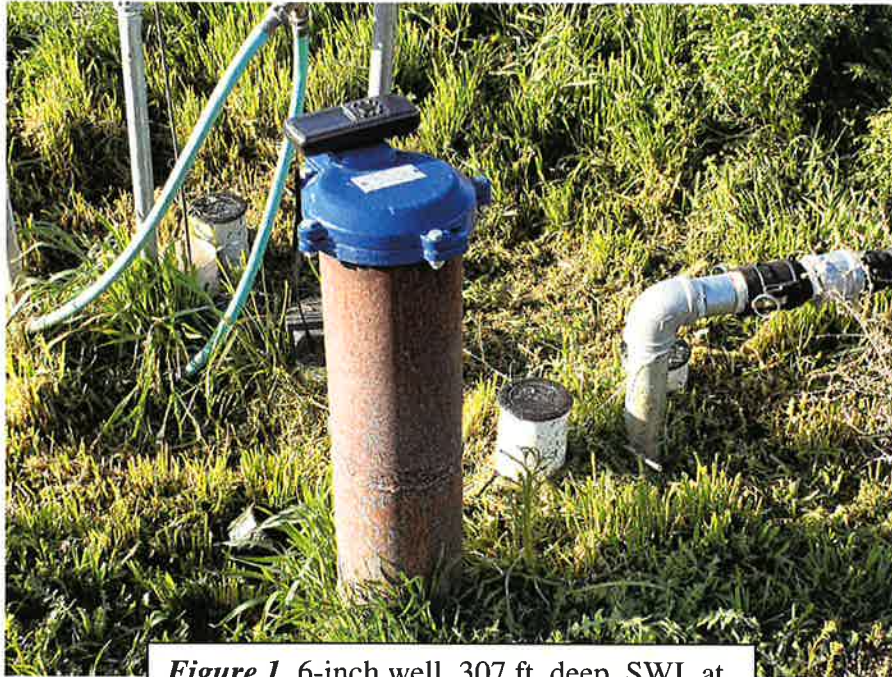


Figure 1 6-inch well, 307 ft. deep. SWL at 180 ft BGS. No metal tag. 7.5-hp variable speed pump.



Figure 2 81-gallon WellMate pressure tank located in the pump house with the irrigation timer.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT
Picture Attachment



Figure 3 Impact sprinkler with 7/32" nozzle used to water the orchard. At 60 psi, the sprinkler puts out 10.7 gpm.

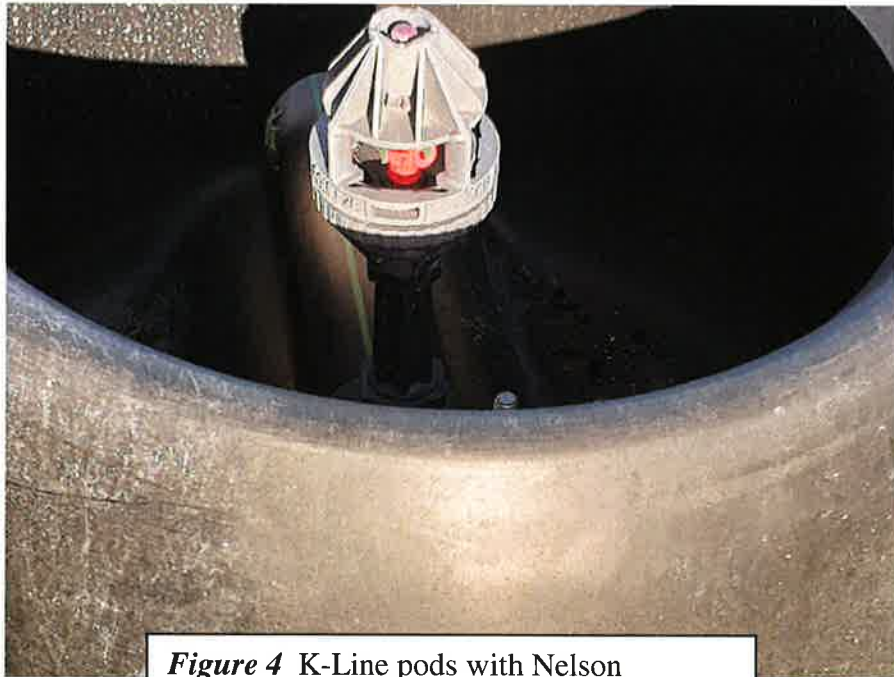


Figure 4 K-Line pods with Nelson R2000WF sprinklers, red plate and nozzle. 17 heads total at 3.0 gpm each.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT
Picture Attachment

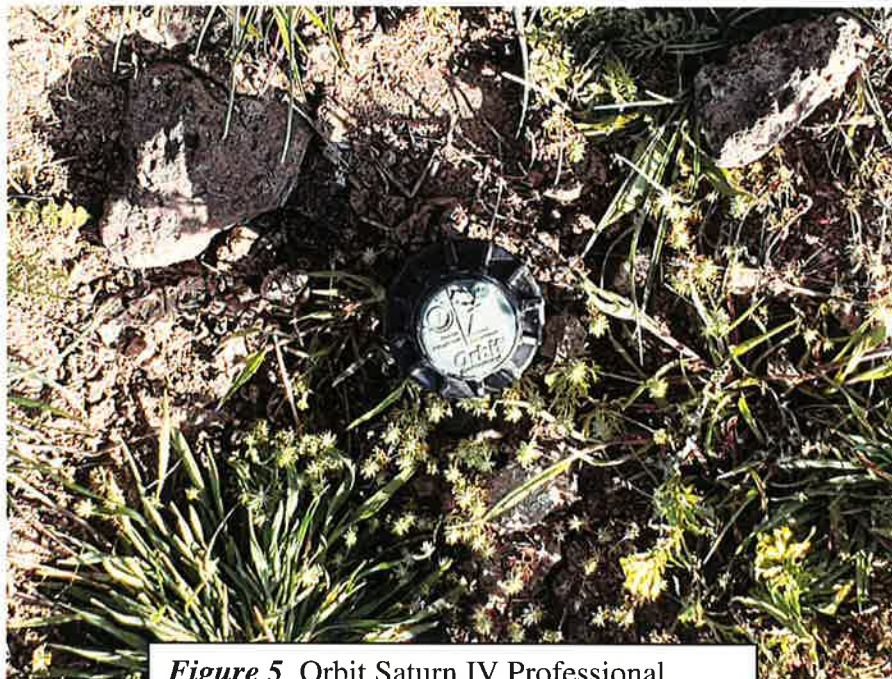


Figure 5 Orbit Saturn IV Professional sprinkler heads used primarily in the lawn surrounding the home.



Figure 6 One of several risers used to hook up to K-Line.

BENEFICIAL USE FIELD REPORT

01N01E10

Basin/Segment	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-11343	ANDERSC	GROUND	IRRIGATION	X	X	X	X	40	40	40	40	X	X	X	X	X	X	X	X	171
63-11970	CITY OF	GROUND	MUNICIPAL																	
63-12289	RICHARD	GROUND	DOMESTIC																	
63-12289	RICHARD	GROUND	IRRIGATION																	
63-12394	CITY OF	GROUND	MUNICIPAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	7.3
63-12552	CITY OF	GROUND	MUNICIPAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-16741	HAYES, H	GROUND	DOMESTIC	X																
63-31481	CITY OF	GROUND	MUNICIPAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-3266	CITY OF	GROUND	MUNICIPAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33817	ANDERSC	GROUND	IRRIGATION																	
63-33819	ANDERSC	GROUND	IRRIGATION																	171
63-33821	ANDERSC	GROUND	IRRIGATION																	171
63-33823	ANDERSC	GROUND	IRRIGATION																	171
63-33825	ANDERSC	GROUND	IRRIGATION																	171
63-33827	ANDERSC	GROUND	IRRIGATION																	171
63-33829	ANDERSC	GROUND	IRRIGATION																	171
63-33831	ANDERSC	INDIAN	CIRRIIGATION																	171
63-34303	ANDERSC	INDIAN	CIRRIIGATION																	109
63-34303	ANDERSC	INDIAN	CIRRIIGATION																	109
63-34303	ANDERSC	SAND CR	IRRIGATION																	109
63-34303	ANDERSC	SAND CR	IRRIGATION																	109
63-34304	ANDERSC	GROUND	IRRIGATION																	109
63-34305	ANDERSC	GROUND	IRRIGATION																	109
63-34306	ANDERSC	GROUND	IRRIGATION																	109
63-34307	ANDERSC	GROUND	IRRIGATION																	109
63-34308	ANDERSC	GROUND	IRRIGATION																	109
63-34309	ANDERSC	GROUND	IRRIGATION																	109
63-34310	ANDERSC	GROUND	IRRIGATION																	109
63-34311	ANDERSC	GROUND	IRRIGATION																	109
63-34312	ANDERSC	INDIAN	CIRRIIGATION																	109
63-7756	C E NICH	GROUND	IRRIGATION																	131
63-8215	CITY OF	GROUND	MUNICIPAL	X	X	X	X	X	X	X	X	X	X	X	X	25	33	34	39	
63-9184A	ANDERSC	GROUND	IRRIGATION																	35
63-9937	ANDERSC	INDIAN	CIRRIIGATION																	171
63-9937	ANDERSC	INDIAN	CIRRIIGATION																	171
63-9937	ANDERSC	SAND CR	IRRIGATION																	171
63-9937	ANDERSC	SAND CR	IRRIGATION																	171

Municipal use, no overlap

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

01N01E10

Basin/Sequ	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-11343	ANDERS	GROUND WATER		X	X														
63-12289	RICHARD	GROUND WATER										X							
63-16741	HAYES, H	GROUND WATER		X															
63-33817	ANDERS	GROUND WATER		X	X														
63-33819	ANDERS	GROUND WATER		X	X														
63-33821	ANDERS	GROUND WATER		X	X														
63-33823	ANDERS	GROUND WATER		X	X														
63-33825	ANDERS	GROUND WATER		X	X														
63-33827	ANDERS	GROUND WATER		X	X														
63-33829	ANDERS	GROUND WATER		X	X														
63-34303	ANDERS	INDIAN CREEK		X	X														
63-34303	ANDERS	SAND CREEK		X	X														
63-34304	ANDERS	GROUND WATER		X	X														
63-34305	ANDERS	GROUND WATER		X	X														
63-34306	ANDERS	GROUND WATER		X	X														
63-34307	ANDERS	GROUND WATER		X	X														
63-34308	ANDERS	GROUND WATER		X	X														
63-34309	ANDERS	GROUND WATER		X	X														
63-34310	ANDERS	GROUND WATER		X	X														
63-34311	ANDERS	GROUND WATER		X	X														
63-34339	C E NICH	GROUND WATER																X	
63-7756	C E NICH	GROUND WATER																X	
63-9184A	ANDERS	GROUND WATER			X														
63-9937	ANDERS	INDIAN CREEK		X	X														
63-9937	ANDERS	SAND CREEK		X	X														

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY

Amt. of Fee \$: _____
Receipt No. _____
Receipt By: _____
Date Received: _____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed** and that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an Assignment of Permit form. If you wish to relinquish your permit because you have not established the authorized use of the water and are **not** applying for an extension, please notify the Department in writing.

1. Permit No. 63-12289 Telephone No. 208-631-7128
2. Name of Permit Holder(s): FRANK & KAREN RICHARDS
3. Mailing Address: 18330 S. CLOVERDALE City KUNA
State ID Zip 83634 Email: FRIDSSR@MSN.COM
4. Source of Water: GROUNTH WATER If **GROUND WATER** (well), Date Drilled: mo. 03 / yr. 1996
Well Driller: HIDDESTON DRILLING Drilling Permit Number: 63-96-W-0131-000
5. Extent of use(s) completed (as authorized by the water right permit):
Domestic (No. of households): 1 Stockwater (No. and type of stock): _____
Irrigation (No. of acres): 10 Other: _____
6. Total rate of diversion or storage volume for which proof is submitted: 0.20 cfs OR _____ acre-feet.
7. Compliance with a Measuring Device requirement and/or other Conditions of Permit: (Refer to the approval conditions on your permit and respond accordingly.)
- | | |
|---|--|
| Measuring Device: Is a measuring device required?
If yes, has the measuring device been installed? | Yes ☐ or No ☒ |
| | Yes ☐ or No ☒ |
- Conditions of Permit: Does your permit require you to submit additional information in connection with your proof of beneficial use? (If yes, please list the conditions below and provide documents if necessary.)
- | | |
|------------|--|
| Completed? | Yes ☐ or No ☒ |
| Completed? | Yes ☐ or No ☒ |
8. Fee Enclosed: \$ 50.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: FRANK RICHARDS Telephone Number: 208-631-7128
Mailing Address: 18330 S CLOVERDALE City KUNA
State ID Zip 83634 Email: FRIDSSR@MSN.COM
10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder: _____ Date: _____
(include your title, if on behalf of company or organization)

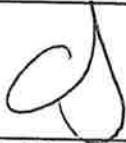
Idaho Department of Water Resources Receipt

Receipt ID: W045703

Payment Amount \$50.00 Date Received 9/29/2017 10:06 AM Region WESTERN
Payment Type Check Check Number 4261
Payer RICHARDSON, FRANK & KAREN
Comments BENEFICIAL USE FOR WR# 63-12289 FOR FRANK RICHARDSON

Fee Details

Amount	Description	PCA	Fund	Fund Detail	Subsidiary	Object
\$50.00	BENEFICIAL USE	62104	0229	21		1155


Signature Line (Department Representative)



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

March 30, 2018

FRANK RICHARDSON
18330 S CLOVERDALE
KUNA ID 83634

RE: Water right permit no. 63-12289

Dear Permit Holder:

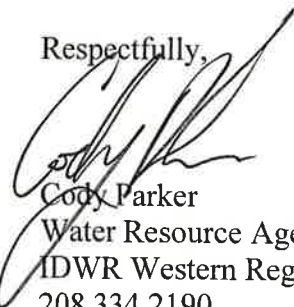
We are planning to conduct water right examinations in the vicinity of the permit referenced above **this season**. An examination is needed to verify the water use in order to issue a water right license.

The details of the permit referenced above can be found in the enclosed water permit report. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but you have ceased using the water and have no further interest in pursuing a water right, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

Please contact me within the next thirty (30) days at 208-334-2190 to either schedule an examination or submit a relinquishment form. If you do not make a timely response in this regard, action will be taken to void the permit.

Respectfully,



Cody Parker
Water Resource Agent
IDWR Western Region
208.334.2190
cody.parker@idwr.idaho.gov

Enclosed: Water right report and map
Relinquishment form