

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-8050

Exam Date: 6/2/2014

1. Current Owner: MYRTLE B SIDWELL
390 E. MOSKEE STREET
MERIDIAN ID 83646
(208)257-3753

AND

EUGENE C SIDWELL
390 E. MOSKEE STREET
MERIDIAN ID 83646
(208)257-3753

2. Accompanied by: Eugene Sidwell
Phone No: Same
Address: Same
Relationship to Permit Holder: Owner

3. SOURCE

EAST PINE CREEK

TRIBUTARY

WEISER RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 67-219, 67-220, 67-226, 67-229
2. Other water rights with the same point of diversion: 67-219, 67-220, 67-226, 67-229

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

EAST PINE CREEK

NW1/4SE1/4

Sec. 35, Twp 16N, Rge 04W, B.M.

WASHINGTON County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
16N	04W	35									0.4					1.6			2.0

Total Acres: 2

STOCKWATER same as IRRIGATION

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
N/A	Great Bend	30	N/A	Berkeley	G030392, 4"
	Tractor				

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
N/A						

2. Measurements: No field measurement. Operating gauge pressure of 40 psi.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 30/40 + (2.31 \times 40) = 184.80/132.40 = 1.40 \text{ cfs}$$

$$Q(\text{sprinklers}) = 11 \text{ sprinklers} \times 4.61 \text{ gpm} = 50.71 \text{ gpm} \sim 0.11 \text{ cfs}$$

$$Q(\text{theoretical}) = 1.40 \text{ cfs} > 0.11 \text{ cfs } Q(\text{sprinkler}) > 0.06 \text{ cfs } Q(\text{permit})$$

$$HP = 30 \text{ (tractor)}$$

$$Z = 40' \text{ (Estimated)}$$

$$P = 40 \text{ psi (gauge)}$$

$$\text{Nozzles} = 5/32"$$

Appears that the current pumping system can attain the permit diversion rate of 0.06 cfs.

Recommend the permit diversion rate of 0.06 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.0 \times 4.0 \text{ AFA} = 8.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 231 \times 1.9835 = 18.3 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 8.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: Stock Water – 2 Horses

$$V_r = (2 \times 12 \text{ gpd} \times 365 \text{ days}) / 325,850 \text{ gallons/AF} = 0.03 \text{ AFA}$$

$$V_d = (0.02 \times 365 \text{ days} \times 1.9835 \text{ AF/day}) = 14.5 \text{ AFA}$$

$$V_r < V_d \quad V = 0.03 \text{ AFA, therefore use 0.10 AFA}$$

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 30-hp frame mounted pump diverts water from East Pine Creek for irrigation of approximately 2.0 acres of pasture, lawn, and landscaping. The pump is operated by a 30-hp Great Bend GB 330 tractor.

IRRIGATION SYSTEM:

The right holder's irrigation system is a supplemental irrigation system. The main source of irrigation water is through the Pine Creek Property Owners Irrigation Association (Water Rights 67-219, 67-220, 67-226, and 67-229). Approximately 2.0 acres of pasture, lawn, and landscaping are irrigated by 3" hand lines. The irrigation system is comprised of four (4) stations. The high impact rotary sprinklers contain 5/32" nozzles. Approximately eleven (11) sprinklers operate per station. When the horses are in the pastures, the right holder removes the hand lines and uses a Spray King SR3003, a 'big gun' type sprinkler, to irrigate the pastures.

STOCK WATER:

Frost-free hydrants with hoses are used to fill two (2) watering troughs for two (2) horses. The watering troughs are in separate pastures.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 67-8050 and Water Rights 67-219, 67-220, 67-226, and 67-229, owned by the Pine Creek Property Owners Irrigation Association, have an overlapping point of diversion. These water rights were changed per Transfer No. 4236.

Place of Use: Water Right Permit No. 67-8050 and Water Rights 67-219, 67-220, 67-226, and 67-229, owned by the Pine Creek Property Owners Irrigation Association, have overlapping places of use. These water rights were changed per Transfer No. 4236.

Have conditions of permit approval been met? ☒ Yes ☐ No

CONDITION NO.5 (01H) – Prior to diversion of water under this right, the right holder shall install a lockable device. Since a tractor operates the pump, there are no physical means in which to lock the power source. The right holder's 'lockable device' is to disconnect the driveline from the tractor to the pump. Brandi Horton, Watermaster for District 67, submitted an e-mail response on 6/14/14 approving the right holder's disconnection of the driveline to the pump as 'lockable controlling works'. Right holder is in compliance with Condition No.5.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.06	&/or	N/A
Beneficial Use Limit	0.06	&/or	N/A
System Measurement	1.40 (theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.06	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	1/01 to 12/31	0.020 CFS	0.10 AFA
IRRIGATION	3/15 to 10/31	0.040 CFS	8.00 AFA
<u>Totals:</u>		0.060 CFS	8.10 AFA

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ___ None

___ Change P.U. as reflected above X Add P.U. as reflected above ___ Other

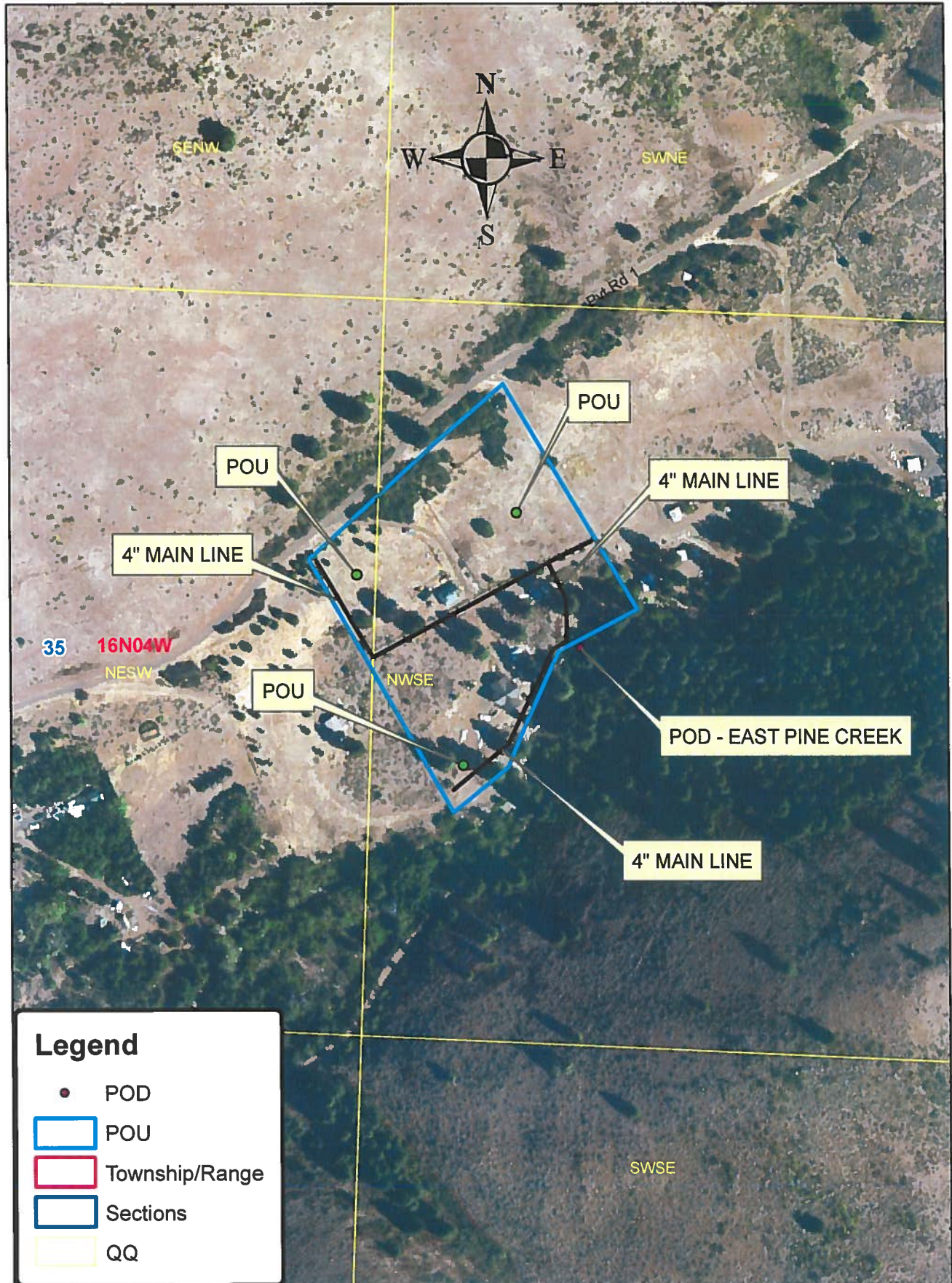
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 6-16-14

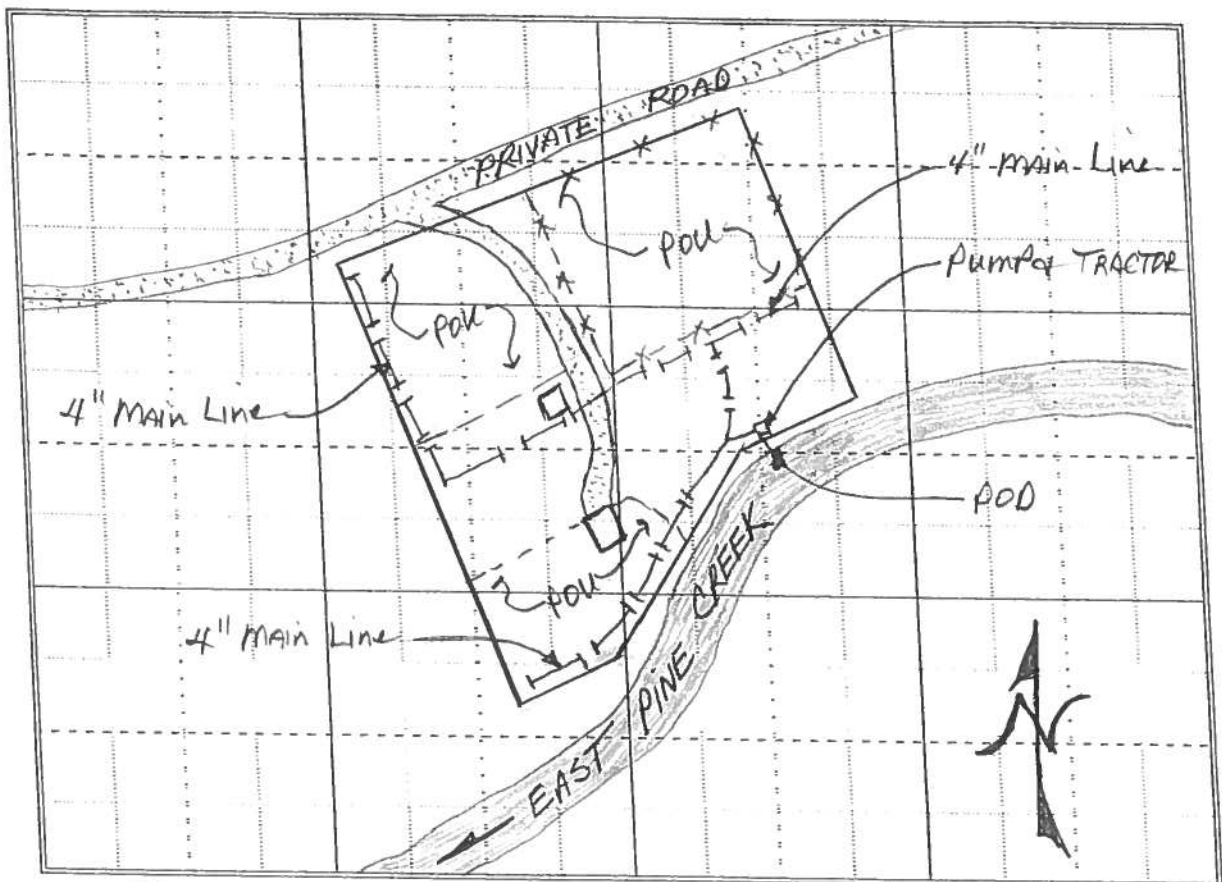
Reviewer _____ Date _____

67-8050

AERIAL PHOTO - 2013



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" = NTS

- ☐ 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

FIELD EXAM PHOTOS

Water Right Permit: 67-8050

Field Exam Date: 6-2-14

PLS: NW1/4, SE1/4 Section 35, T.16N, R.04W

Field Examiner: RC



Point of Diversion: View southerly of the 4" flexible hose suction line in East Pine Creek.



View southwesterly of the pump and mechanical equipment to operate the pump. A 30 or 35-hp Great Bend tractor operates the drive shaft to the mechanical equipment.



View easterly of the tractor which provides the motor power to operate the pump.



View southwesterly of the 4" supply lines. The 4" flexible hose adjacent to East Pine Creek conveys water to the sprinkler system adjacent to the home site. The 4" steel supply line conveys water to the 3" hand lines in the pasture areas.



Place of Use: View northeasterly of the 3" hand lines irrigating a pasture area north of East Pine Creek. When livestock are grazing in the pasture, the right holder removes the 3" hand lines and irrigates with a Spray King 'Big Gun' type sprinkler.



Place of Use: One of two stock water troughs for two horses.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

July 1, 2014

EUGENE C SIDWELL &/or
MYRTLE B SIDWELL
390 E MOSKEE ST
MERIDIAN ID 83646

RE: Water Right Permit No. 67-8050

Dear Permit Holders:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

✓ **Place of Use**

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at (208)334-2190.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosures – Application for Amendment & Layout

7-7-14
Mr. Sidwell
did not know why
amendment was
needed - he is OK
with it & will
submit
amendment.
KW

Collingwood, Rick

From: Brandi Horton [watermaster67@hotmail.com]
Sent: Saturday, June 14, 2014 8:44 AM
To: Collingwood, Rick
Subject: RE: Eugene Sidwell - East Pine Creek

Good Morning Rick,

Yes, I'm fine with Mr. Sidwell disconnecting the driveline to his pump as a "lockable controlling works." I've not yet had any difficulties in obtaining Mr. Sidwell's cooperation in times of curtailment, and should it ever become an issue I can secure the driveline in a manner as would make impossible to hook back up until after curtailment is lifted. Thanks for touching base with me....

Have a Great Day!

Brandi Horton
Watermaster-Dist 67
2297 Snapp Lane
Midvale, ID 83645

Sent from my Verizon Wireless 4G LTE Smartphone

----- Original message -----

From: "Collingwood, Rick"
Date: 06/13/2014 9:30 AM (GMT-07:00)
To: watermaster67
Subject: Eugene Sidwell - East Pine Creek

Brandi,

I recently performed a field exam for Water Right Permit No. 67-8050 for Eugene Sidwell on East Pine Creek. As you know, his pump to divert water from the creek is powered by a tractor. One of the conditions of approval is for the right holder to install a lockable device. Since installing a lockable device on a tractor is not feasible, I think, he indicated that he disconnects the driveline to prevent operation of the pump. He indicated that this was acceptable to you, so I need confirmation from you that disconnection of the driveline is acceptable to you.

Thanks,

Rick Collingwood, P.E.
Staff Engineer



State of Idaho

DEPARTMENT OF WATER RESOURCES

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PHONE: (208) 334-2190 FAX: (208) 334-2348 www.idwr.idaho.gov

C.L. "BUTCH" OTTER, Governor

May 22, 2014

GARY SPACKMAN, Director

Eugene C. & Myrtle B. Sidwell
390 E. Moskee Street
Meridian, ID 83646

RE: Scheduling Field Exam for Water Right Permit No. 67-8050

Dear Permit Holder:

The Idaho Department of Water Resources (IDWR) is planning to conduct water right field examinations in the vicinity of the above-referenced permit **during the week of June 9**. An examination is needed to verify water use(s) developed under the permit in order to issue a water right license.

Your permit authorizes the diversion of surface water from East Pine Creek for irrigation and stock water. If you developed a beneficial use of water and still own the place of use property identified in the permit, please contact me at your earliest convenience to schedule an examination.

If you developed a beneficial use of water under the permit but no longer own the place of use property, please use the enclosed Assignment of Permit form (\$25 fee). This will allow IDWR to work with the new permit owner through the water right licensure process.

A water right license cannot be issued if beneficial use of water was not developed or if use was developed but abandoned. If either of these cases has occurred, please relinquish the permit by using the enclosed Relinquishment of Permit form (no fee required). The permit will be voided if a relinquishment form is not submitted within thirty (30) days. If you no longer own the property and do not assign or relinquish your permit, IDWR will work with the current property owner to issue a license or to void the permit.

Please contact me to schedule a field examination for a day and time that is convenient for you. **Please call me at (208) 334-2190 by June 5 to conduct the field exam during the week of June 9.** If there is a problem with scheduling or conducting the field examination at this time, please let me know so we can reschedule.

Please call me at (208) 334-2190 if you have any questions. I appreciate your attention to this matter and look forward to hearing from you.

Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.

Enclosure: Relinquishment and Assignment of Permit Forms



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

June 21, 2013

Eugene C. & Myrtle B. Sidwell
920 N. Plateau
Caldwell, ID 83605

RE: Scheduling Field Exam for Water Right Permit No. 67-8050

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of July 15, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.06 cfs of surface water from East Pine Creek for irrigation of 2.0 acres and stock water for 2 horses.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by July 12, 2013, to conduct the exam during the week of July 15, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.