

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-8036

Exam Date: 5/14/2013

1. Current Owner: JOHN R SCHWENKFELDER
5500 W OLD SCHOOL LN
MERIDIAN ID 83642
(208)322-4177
2. Accompanied by: Royce Schwenkfelder
Phone No: (208) 550-2200
Address: 3315 Schwenkfelder Road, Cambridge, ID 83610
Relationship to Permit Holder: Brother

3. **SOURCE**

UNNAMED STREAM

TRIBUTARY

LITTLE WEISER RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 67-8014, 67-14784, 67-7489, 67-7561
2. Other water rights with the same point of diversion: None

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

UNNAMED STREAM

SE1/4SW1/4

Sec. 11, Twp 14N, Rge 02W, 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>	
14N	02W	11											4.0	10.0			16.0		30.0

Total Acres: 30.0

IRRIGATION STORAGE same as IRRIGATIONIRRIGATION FROM STORAGE 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	Unknown	70	Unknown	Cornell	10495; 4"

*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. The irrigation system is a supplemental system and was not in operation during the field exam. The right holder stated that each irrigation set is comprised of 32 sprinklers, with each sprinkler having a designed application rate of 5 gpm at an operating pressure of 50 psi. (32 x 4 = 128 sprinklers)
 $Q = 128 \times 5 \text{ gpm} = 640 \text{ gpm} \sim 1.42 \text{ cfs}$.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 70/60 + (2.31 \times 50) = 431.2/175.5 = 2.5 \text{ cfs}$$

$$Q(\text{sprinklers}) = 128 \text{ sprinklers} \times 5 \text{ gpm} = 640 \text{ gpm} \sim 1.42 \text{ cfs}$$

$$Q(\text{theoretical}) = 2.5 \text{ cfs} > 1.42 \text{ cfs } Q(\text{sprinklers}) > 1.0 \text{ cfs } Q(\text{permit})$$

$$HP = 70 \text{ (Tractor)}$$

$$Z = 60' \text{ (Estimated)}$$

$$P = 50 \text{ psi (per right holder)}$$

Appears that the current pumping system can attain the permit diversion rate of 1.0 cfs. However, since only 30 acres is currently being irrigated, we cannot license for the full permit diversion rate.

Recommend a diversion rate of 0.60 cfs, which complies with the maximum 1-inch/acre application rate of 0.02 cfs per acre.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 30.0 \times 4.0 = 120.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.60 \times 231 \times 1.9835 = 274.9 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 120.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: (Irrigation Storage Pond)

Pond Surface Area – 12.0 ac.

Maximum Pond Depth – 16' @ the dam

$$V = 12.0 \text{ ac} \times 16' = 192 \text{ AF}$$

$$V = 192 \text{ AF} > 60 \text{ AF } V(\text{permit})$$

Recommend permit volume of 60.0 AFA

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

An Unnamed Stream, which is located in a drainage, and is locally known as 'Mickey Ravine', conveys runoff water from snow melt, storm water runoff, and spring discharge to a 12.0 acre irrigation storage pond. Water is pumped from the pond to irrigate approximately 30 acres of agricultural land.

IRRIGATION SYSTEM:

Irrigation water discharged from the storage pond is controlled by a 6" wheel-operated gate valve on top of the dam. Water is discharged to a 6" steel pump connection stand pipe located at the toe of the dam. A Cornell pump, which is operated by a 70-hp tractor, discharges water through 4" irrigation main lines. The fields are irrigated with 3" hand lines which are attached to 3" risers on the 4" irrigation main lines. The irrigation system is comprised of 14 sets. Only four (4) sets operate at a time. Each set contains 32 high impact sprinklers. Each sprinkler is spaced at approximately 60'. According to the right holder, the sprinkler irrigation system operates at a pressure of 50 psi, with an application rate of 5.0 gpm.

The storage pond spillway is a 6" wheel-operated gate valve on top of the dam. When water is not being discharged for irrigation, excess water in the storage pond is discharged to an irrigation ditch which is located near the toe of the dam.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 67-8036.

Place of Use: Water Right Permit No. 67-8036, Water Right Permit No. 67-8014, and Water Rights 67-14784, 67-7489, and 67-7561 have overlapping places of use.

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

CONDITION NO. 2(18A) – The right holder shall install/maintain permanent measuring devices in such a manner that the amount of water entering the reservoir and the amount of water released from the reservoir can be measured.

CONDITION NO. 5(01J) – Prior to diversion of water under this right, the right holder shall install and maintain a measuring device and lockable controlling works.

The right holder has installed locking devices on the two (2) wheel-operated gate valves. On March 13, 2014, the Department received a letter from the District 67-A Watermaster, approving the waiver request to remove the requirements for measuring devices.

Right holder is in compliance with Approval Condition No. 2 and Approval Condition No. 5.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	1.0	&/or	N/A
Beneficial Use Limit	0.60	&/or	N/A
System Measurement	2.5 (theoretical)	&/or	N/A
Proof Fee Amount	1.0	&/or	N/A
Recommended Amount	0.60	&/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>
IRRIGATION STORAGE	1/01 to 12/31	N/A	60.00 AF
IRRIGATION FROM STORAGE	3/15 to 10/31	N/A	60.00 AF
IRRIGATION	3/15 to 10/31	0.600 CFS	120.00 AF
<u>Totals:</u>		0.600 CFS	180.00 AFA

2. Recommended Amendments

☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

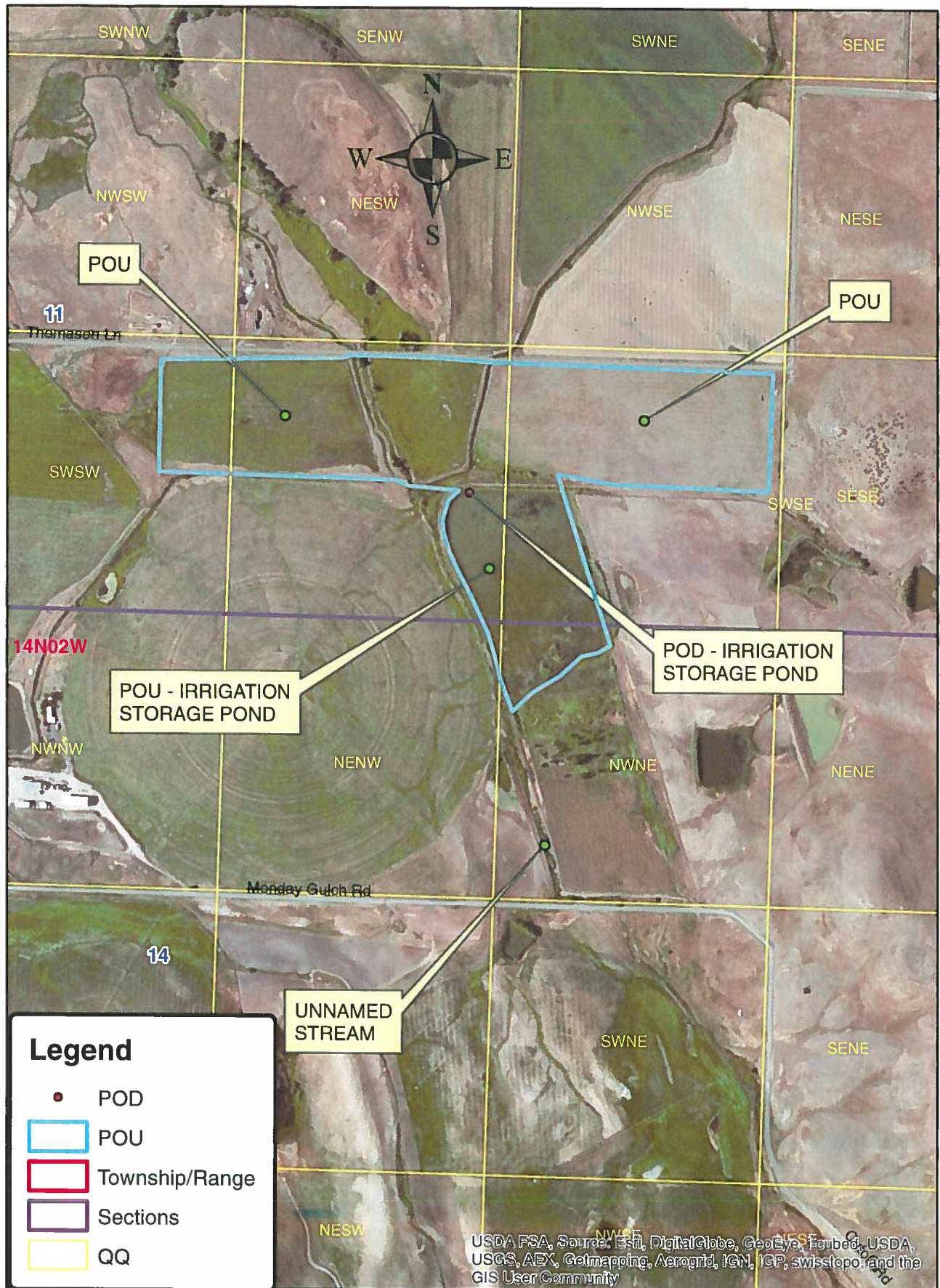
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 3/14/14
 Reviewer _____ Date _____

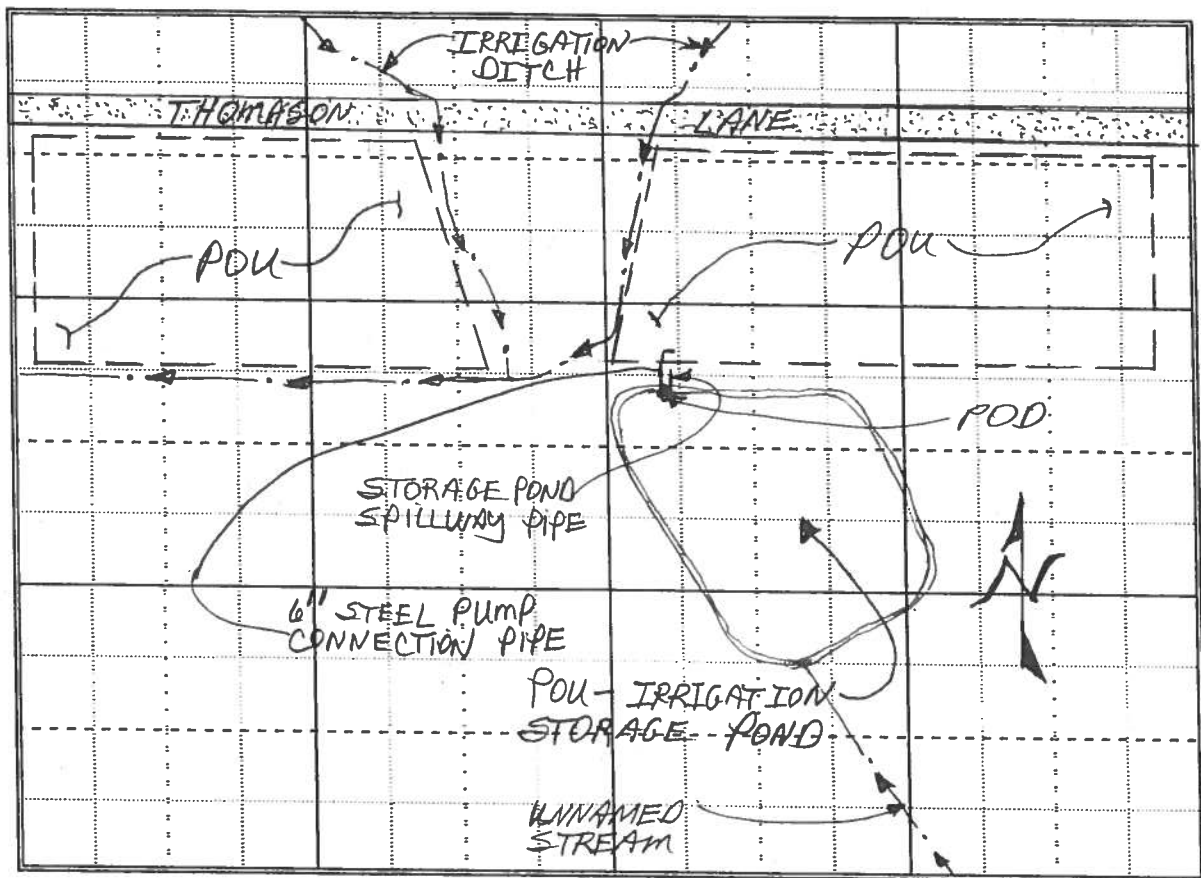
67-8036

ESRI AERIAL PHOTO - 2012



0 220 440 880 1,320 1,760
Feet

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: 67-8036

Field Exam Date: 5-14-13

PLS: NE1/4, SE1/4, SW1/4 Section 11, T.14N, R.02W.
NE1/4, NW1/4, SE1/4 Section 14, T.14N, R.02W.

Field Examiner: RC



Point of Diversion: View southwesterly of the storage pond dam, the spillway control gate valve, and the irrigation control gate valve. The pump connection pipe is shown at the toe of the slope of the dam.



Point of Diversion: View northerly of the irrigation storage pond.



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

April 23, 2014

JOHN R SCHWENKFELDER
5500 W OLD SCHOOL LN
MERIDIAN ID 83642

RE: Permit No. 67-8036

Dear Mr. Schwenkfelder:

The Department of Water Resources sent you an Application for Amendment form on April 2, 2014, for the above referenced Permit. The amendment is required because the field examiner who verified the water use established in connection with your permit reported that one or more elements of your water use differs from the permit. As of this date the Department has not received a response.

If I do not receive the amendment within fourteen (14) days, I will assume you are no longer interested in obtaining a water right license and the permit will be voided. In case the amendment form I sent you has been misplaced, a new one is enclosed.

If you have any questions, please contact me as soon as possible at (208)334-2190.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosure

4-30-2014
amendment + \$175.00
in mail today per
phone con upermi
holder. KW



State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 2, 2014

JOHN R SCHWENKFELDER
5500 W OLD SCHOOL LN
MERIDIAN ID 83642

RE: Water Right Permit No. 67-8036

Dear Permit Holder:

The Department of Water Resources is reviewing the above referenced permit 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 point of diversion and place of use under this right were developed differently than described on your permit. We have also included layouts showing the point of diversion, location of the storage pond and the irrigated acres for your information.

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 a \$100.00 filing fee within 14 days. If you do not amend the permit we will have no choice but to void it.

Please be advised that when you submitted Proof of Beneficial Use for this permit, you only submitted an examination fee for water up to 0.20 cfs and/or 20 acre feet. As you can see on the amendment application, we have assumed you will want the most water you can get for this development. Please note that in order to issue your license for the 0.60 cfs and 60 acre feet of storage water, you will need to upgrade the examination fee and pay a late penalty fee of \$25.00. The examination fee for 0.60 cfs is \$100.00, of which you have already paid \$50.00. In order for you to have the larger amount of water we need an additional \$50.00 exam fee, late penalty fee of \$25.00, and the amendment application fee of \$100.00 for a total of \$175.00.

Please submit the signed amendment application form and the \$175.00 in fees, as

pd 5/1/14 R# W042067

copy

described above, within the next 14 days. If you need additional time to submit the form and/or fees, please send a written request to my attention before the end of the 14 day period. If you don't want to pay the additional exam fee and late penalty fee, we will reduce the amount of water to be licensed to 0.20 cfs and/or 20 acre feet of storage. If you have any questions concerning this matter, please feel free to contact me at (208)334-2190.

Sincerely,



KAY WALKER
Sr. Water Resource Agent

Enclosures

Application for Amendment
Layouts of storage pond & irrigated acres



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

January 28, 2014

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

Joe Stippich
District 67A Watermaster
2195 Hanthorn Road
Indian Valley, ID 83632

Re: Water Right Permit No. 67-8036
Condition Waiver Request

Dear Joe:

In May of 2013, I conducted a field exam for Water Right Permit No. 67-8036 for John Schwenkfelder. The water right permit allows the right holder to divert water from an Unnamed Stream to an irrigation storage pond, and divert water from the irrigation storage pond to irrigate approximately 30 acres of crops.

I am requesting a waiver for the Department's requirement for the right holder to install measuring devices. Condition No.2 requires that the right holder install and maintain permanent measuring devices such that the amount of water entering the irrigation storage pond and the amount released from the pond can be measured.

The water for the irrigation storage pond is provided by an Unnamed Stream commencing in Mickey ravine. Snow melt, storm water runoff, and discharge from springs is conveyed in an Unnamed Stream and discharged to the irrigation storage pond. Water is discharged to the southern end of the irrigation storage pond. There is not a defined channel in which to install a measuring device, such as a weir.

Condition No.2 and Condition No.5 require the right holder to install a measuring device to measure the discharge from the storage pond. Discharge from the irrigation storage pond is controlled by a wheel slide gate at the dam. If a measurement is required by the Department or the Watermaster, a measurement could be made or calculated from the spillway pipe discharge.

The second part of the condition is for the right holder to install lockable controlling works. The right holder has installed a chain and padlock which allows the right holder or Watermaster to control the discharge from the irrigation storage pond.

Due to the undefined channel for the Unnamed Stream, and the ability to obtain a measurement from the spillway discharge pipe, I am requesting a waiver to the Department's requirements for the installation of measuring devices for Water Right Permit No. 67-8036.

If you have any questions, you can contact me at 208-334-2190 or by e-mail at rick.collingwood@idwr.idaho.gov.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive style with a large, looping "C" at the end.

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

RECEIVED

MAR 13 2014

WATER RESOURCES
WESTERN REGION

MERRILL J. STIPPICH (JOE)

2195 Hanthorn Rd
Indian Valley, ID 83632
208-355-2208
jsstippich@yahoo.com

March 10, 2014

Mr. Rick Collingwood
Idaho Department of Water Resources
P.O. Box 83720
Boise, Idaho 83720-0098

RE: Water Right # 67-8036

Dear Rick,

I have reviewed the pond in question and can see no need for a measuring device. The stream of water in question is totally dry most of the year. There is no one below the pond that has a water permit. User (John Scwenkfelder) of pond has a locking device on head gate and that should take care of what is required.

Sincerely,



Joe Stippich
Water Master 67-A



State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 10, 2013

John R. Schwenkfelder
5500 W. Old School Lane
Meridian, ID 83642

RE: Scheduling Field Exam for Water Right Permit No. 67-8036

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 6, 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 1.0 cfs of ground water for irrigation of 156.0 acres and 60.0 AF of irrigation storage.

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 May 3, 2013, to conduct the exam during the week of May 6, 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,

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