

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22940

Exam Date: 7/18/2012

1. Current Owner: PATRICK KIRK MACAW
3110 TETON ST
BOISE ID 83705
(208)344-4585

2. Accompanied by: Patrick Macaw
Phone No: Same
Address: Same
Relationship to Permit Holder: Same

3. SOURCE

SPRING

TRIBUTARY

ROBBS CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

SPRING SW1/4NW1/4SE1/4 Sec. 8, Twp 06N, Rge 02E, B.M.
BOISE County

Method of Determination: GPS Location N43° 52.13880' W116° 14.57040' Garmin model GPSmap 76 Datum NAD 83

2. PLACE OF USE:

		STOCKWATER																	
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
06N	02E	8																	

PLACE OF USE:

		DOMESTIC																	
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
06N	02E	8																	

Method of Determination: Bing (2011) Aerial Photography w/ field verification.

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. Well or DiversionID No.*

N/A

Motor Make

N/A – gravity system no motor or pump

HpMotor Serial No.Pump MakePump Serial No. or Discharge Size

spring discharged through 12 in culvert

D. FLOW MEASUREMENTS1. **Measurement**

Equipment	Type	Make/Model No.	Serial No.	Size	Calib. Date
No physical measurement @ exam	N/A	N/A	N/A	N/A	N/A

See Flow Calculations Section below for Owner Flow Estimations.

2. Measurements: Not enough flow during exam to measure – water dripped at very slow rate from culvert. Owner provided estimates of how long it takes to fill the 400 gallon tank at different times during the year:
- ⇒ maximum flow in spring time takes approximately 8 hrs to fill 400 gallon tank,
 - ⇒ minimum flow in late summer/fall takes approximately 3 days to fill 400 gallon tank.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Maximum Flow Estimation (spring season):

$$Q = 400 \text{ gal} / 8 \text{ hr} \times 1 \text{ hr} / 60 \text{ min} = 0.83 \text{ gpm} = 0.0019 \text{ cfs} \Rightarrow \text{0.01 cfs (min. recognized WR rate)}$$

Measured Method: Minimum Flow Estimation (late summer/fall season):

$$Q = 400 \text{ gal} / 3 \text{ days} \times 1 \text{ day} / 24 \text{ hr} \times 1 \text{ hr} / 60 \text{ min} = 0.09 \text{ gpm} = 0.0002 \text{ cfs} \Rightarrow \text{0.01 cfs (min. recognized WR rate)}$$

Diversion rate based on owner flow estimation(s) = **0.01 cfs**

Permitted Rate = **0.06 cfs**

Beneficial Use Limit = 0.04 cfs (domestic) + 0.02 cfs (stockwater – 4 head range cattle) = **0.06 cfs**

Proof of Beneficial Use fee paid = \$50.00 = up to **0.20 cfs**

Recommend Flow Estimation(s) Rate = 0.01 cfs

F. VOLUME CALCULATIONS

- Volume Calculations for Irrigation: **N/A**
- Volume Calculations for Other Uses: **N/A for I.C. §42-111 type use from any source.**

G. NARRATIVE/REMARKS/COMMENTS**SYSTEM DESCRIPTION:**

Gravity system consists of an improved spring piped under a road via a 12 in corrugated pipe to a 400 gallon tank from which three 1 in lines used to water landscaping (few trees and shrubs, no lawn), fill stock trough (~ 4 free range cattle not owned by Mr. Macaw usually in the area), fill solar shower and various other domestic uses associated with a camp trailer. Additionally, a 4 in perforated pipe buried along spring slope collects spring water that is piped via 1 in to ¾ in line for watering landscaping. No line connecting storage tank in NWSE to camp trailer SWSE. Water is removed from storage tank and transported by hand via solar shower, bucket, etc to camp trailer in SWSE. P/U shape for domestic use includes diversion system, landscaped areas, and small spot in SWSE where camp trailer usually is parked. P/U shape for stockwater use drawn over single stockwater trough located in NWSE.

P/D & P/U PROPERTY OWNERSHIP:

Boise Co. taxlot data when compared to 2011 aerial photo imagery indicates P/D and portion of P/U on property not owned by Mr. Macaw. Mr. Macaw pointed out the property/fence line during the exam, uphill from the spring P/D and P/U. Due to steepness of terrain it is easy to understand how the taxlot data may not exactly match up with the aerial imagery. P/U shape recommended based on aerial imagery. Recommend licensing right in Mr. Macaw's name despite taxlot data, considering Mr. Macaw's knowledge of his property lines and development of the system on his own property. However, recommend include condition 004, just to make sure right holder is fully informed the right does not grant access across the property of another.

G. NARRATIVE/REMARKS/COMMENTS CONTINUED**COMPLIANCE WITH PERMIT CONDITIONS:**

Permit conditioned that a measuring device and lockable controlling works is to be installed and maintained on the diverting works. No measuring or lockable device(s) currently in place on the diversion. Spring discharge, if left undiverted, may ultimately reach Robbs Creek, but contribution would be too small to quantify let alone regulate in the grand scheme of Water District 65. Watermaster Ron Shurtleff WD 65 recommended measuring and lockable device(s) condition(s) be modified to require installation upon future notification.

Have conditions of permit approval been met? ☐ Yes ☒ No – Modifications of measurement and lockable device(s) condition(s) as discussed above approvable per phone conversation with watermaster 10/23/12. All other conditions met.

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.01 CFS	N/A
DOMESTIC	01/01 to 12/31	0.01 CFS	N/A
<u>Totals:</u>		0.01 CFS	N/A

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 Angela M. Gimm Date 10/23/2012
Reviewer _____ Date _____

Beneficial Use Field Report System Diagram 65-22940

R02E



T06N

0 0.01 0.02 0.04 Miles

Bing (2011) Aerial Photo

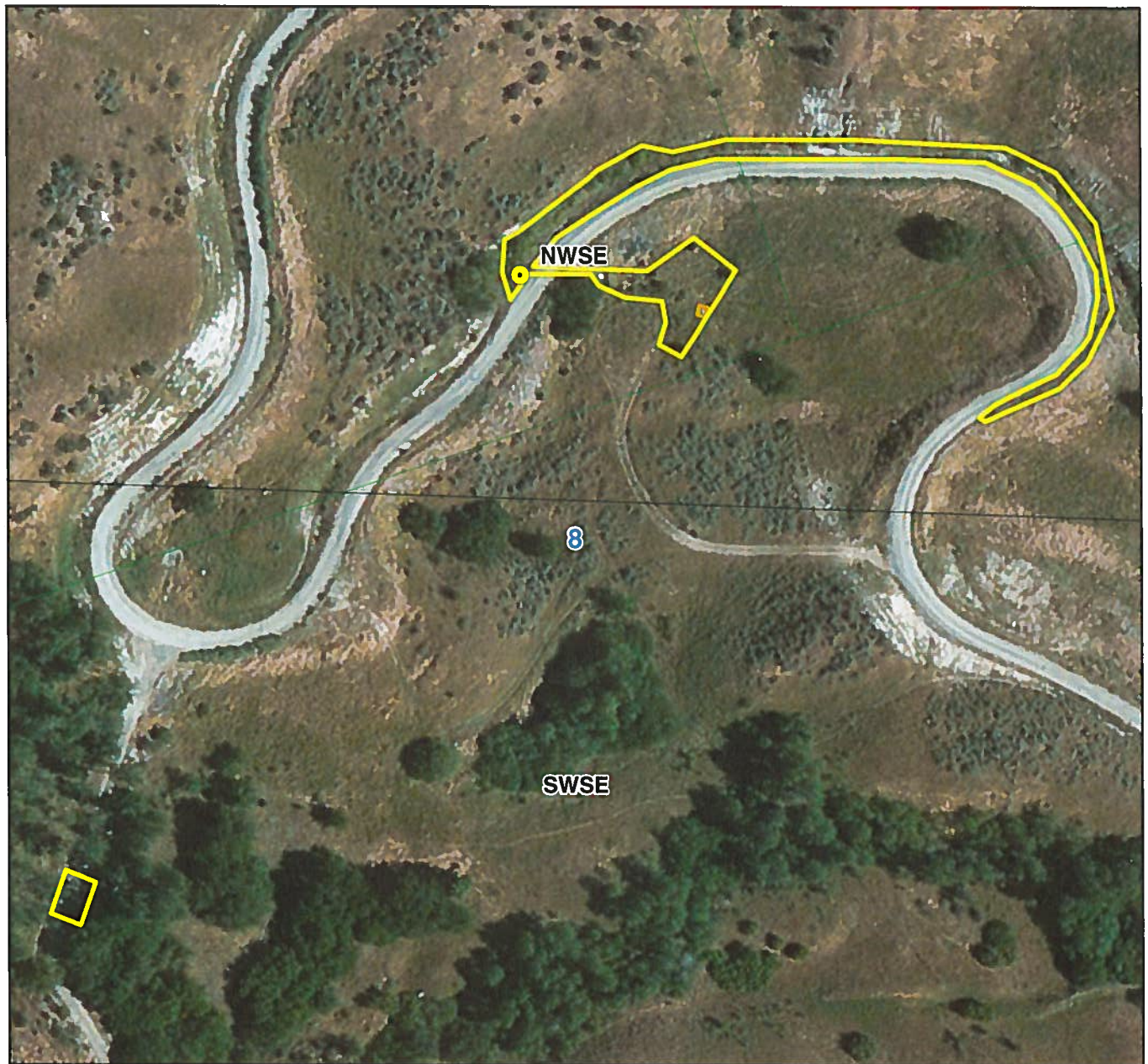
-  Point of Diversion
-  Townships
-  PLS Sections
-  Quarter Quarters



Beneficial Use Field Report Map 65-22940

R02E

T06N



0 0.0125 0.025 0.05 Miles

Bing (2011) Aerial Photo

-  Point of Diversion
-  Domestic Place Of Use
-  Stockwater Place of Use
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Taxlots



65-22940 Beneficial Use Field Report Photos



65-22940 Exam 7/18/2012: 12 in corrugated pipe from spring, under road, into 400 gallon tank. One of 1 in discharge lines visible coming out bottom left of tank.



65-22940 Exam 7/18/2012: Portion of P/U facing east/southeast. 12 in pipe to 400 gallon storage tank in photo foreground. Stock trough with white cover towards center of photo. Landscaped trees have small fences around them in photo middle-ground.



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

November 26, 2012

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

PATRICK KIRK MACAW
3110 TETON ST
BOISE ID 83705

RE: Permit No. 65-22940

Dear Permit Holder:

We previously forwarded to you an Application for Amendment so that you could amend Permit No. 65-22940 to correspond with the findings of the Department's field examiner. We have not yet received your response.

If I do not receive the amendment within fourteen (14) days, your Water Right License will be issued for less than could have been allowed. In case the amendment form previously sent to you has been misplaced, a new one is enclosed. Please review the form and if you concur with the information presented, sign the form and return it with the \$100.00 filing fee.

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

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosure



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

October 24, 2012

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

PATRICK KIRK MACAW
3110 TETON ST
BOISE ID 83705

RE: Water Right Permit No. 65-22940

Dear Permit Holder:

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 \$50.00 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 - layouts & amendment



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
Interim Director

July 12, 2012

Patrick Kirk Macaw
3110 Teton St
Boise, ID 83705

RE: Scheduling Field Exam for Water Right Permit No. 65-22940

Dear Mr. Macaw:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the weeks of July 16 and July 23, 2012**. 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 conditions during the examination. The permit authorizes domestic and stockwater use of spring water for 1 home, 20 range cattle, and 5 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 19, 2012.** If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Angela M. Grimm, P.G.
Water Resource Agent, Sr.