

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-11698

Exam Date:
4-17-2012

1. Current Owner: STEVE WEBB
5331 OLD SULLIVAN LN
HOMEDALE ID 83628
(208)337-3363

And/Or

TRUDY WEBB
5331 OLD SULLIVAN LN
HOMEDALE ID 83628
(208)337-3363

2. Accompanied by: Steve Webb
Phone No: Same
Address:
Relationship to Permit Holder: Owner

3. **SOURCE****TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None: *Gem in water on west & North side of POU*
Recognizing 57-10243 as an independent POU
57-7234 decreed to a part of the POU but being recognized as forfeited
2. Other water rights with the same point of diversion: 57-10243

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

GROUND WATER SW1/4NE1/4 Sec. 31, Twp 03N, Rge 05W, B.M.
OWYHEE County

Method of Determination: GPS and ArcMap

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>	
03N	05W	31			12.0														12.0

Total Acres: 12

Method of Determination:

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</u> <u>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</u> <u>Size</u>
	UNK	5	UNK		

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements: THEORETICAL CALCULATION ONLY

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

5 HP = pump hp from owner.

40 PSI = low end of pressure tank setting

100 ft = static water level + 9 ft. from well log

$$\frac{(5) \text{ Hp} * 8.8 * 0.7}{(40) \text{ PSI} * 2.31 + 100 \text{ ft}} = \underline{0.16} \text{ cfs}$$

Permit Rate (irr) = 0.32 cfsProof Pd (\$100.00) (max cfs) = 1.00 cfsFound POU acres 12 * 0.02 cfs/ac = 0.24 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$12 * 4.5 = 54 \text{ AFA}$$

$$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$0.16 \text{ CFS} * 260 * 1.9835 = 82.4 \text{ AFA}$$

$$V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = 54 \text{ AFA}$$

2. Volume Calculations for Other Uses: NONE

G. NARRATIVE/REMARKS/COMMENTS

The system is shared with right 57-10243 which was decreed for domestic and stockwater use and I am recognizing approximately 1/2 acre of irrigation around the home as a part of the domestic use. I am not recognizing stockwater as a part of 57-11698.

There is a buried mainline from the well to the home and pressure tank system with 1 1/2 inch buried line coming off the mainline approximately 100 ft north of the well and going east to the hillside pasture. The line to the hillside pasture is above ground where it historically crossed the Gem Irrigation canal. It is above ground from the yard fence across the pipeline that replaced the canal system ditch to the hillside pasture fence where it again goes underground. It then goes to the top of the hill underground where it Tees. There are two risers to the north and two to the south from this point where handlines are used to irrigate the pasture.

Starting in the fall of 2010 Gem Irrigation started replacing the ditch that runs northeast along the southeast side of the large pasture and between the farmstead and the hillside pasture on the east with a buried pipeline. The pipeline is in place and buried from the southern end of the property to the grove of trees by the home. The pipeline extends beyond the trees but the ditch has not been filled in yet. Because of the canal company activity the permit holder did not irrigate the pasture during the 2011 season thus it appears as a dry area in the 2011 aerial photo. The hillside pasture has never been irrigated with canal water. The other two parcels are irrigated with canal water and the well is seldom used on that ground. There is a riser northwest of the home where portable lines could be connected to irrigate the larger west pasture. The smaller pasture in the north east corner of the property can be irrigated through a portable above ground running north from the previously described riser to the pasture. There is also a buried mainline running east roughly from the riser to the garden and the center of the small pasture.

Water right 57-7234 was decreed to that portion of this permitted POU identified as the hillside pasture and additional ground to the south. The Webbs purchased the property in 2005 and they indicated that neither they nor others were utilizing that right to irrigate the hillside pasture since that time. They did not know just when the last date of use for that right was. They did not attempt to obtain a portion of that right and are not interested in pursuing it as currently available information indicates that it is probably forfeited for non use specifically for the portion of ground they own. The east pasture extends further south than indicated through tax lot information. And a warranty deed submitted with the change of ownership for 57-10243. Although that ground may be irrigated, I am not recommending it as a part of this right.

Have conditions of permit approval been met? X Yes _____ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.160 CFS	54.00 AF
	<u>Totals:</u>	0.160 CFS	54.00 AF

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 Kelly K. Christensen Date 4-19-2012

Reviewer _____ Date _____

Permit # 63-11698

LICENSING RECOMMENDATION

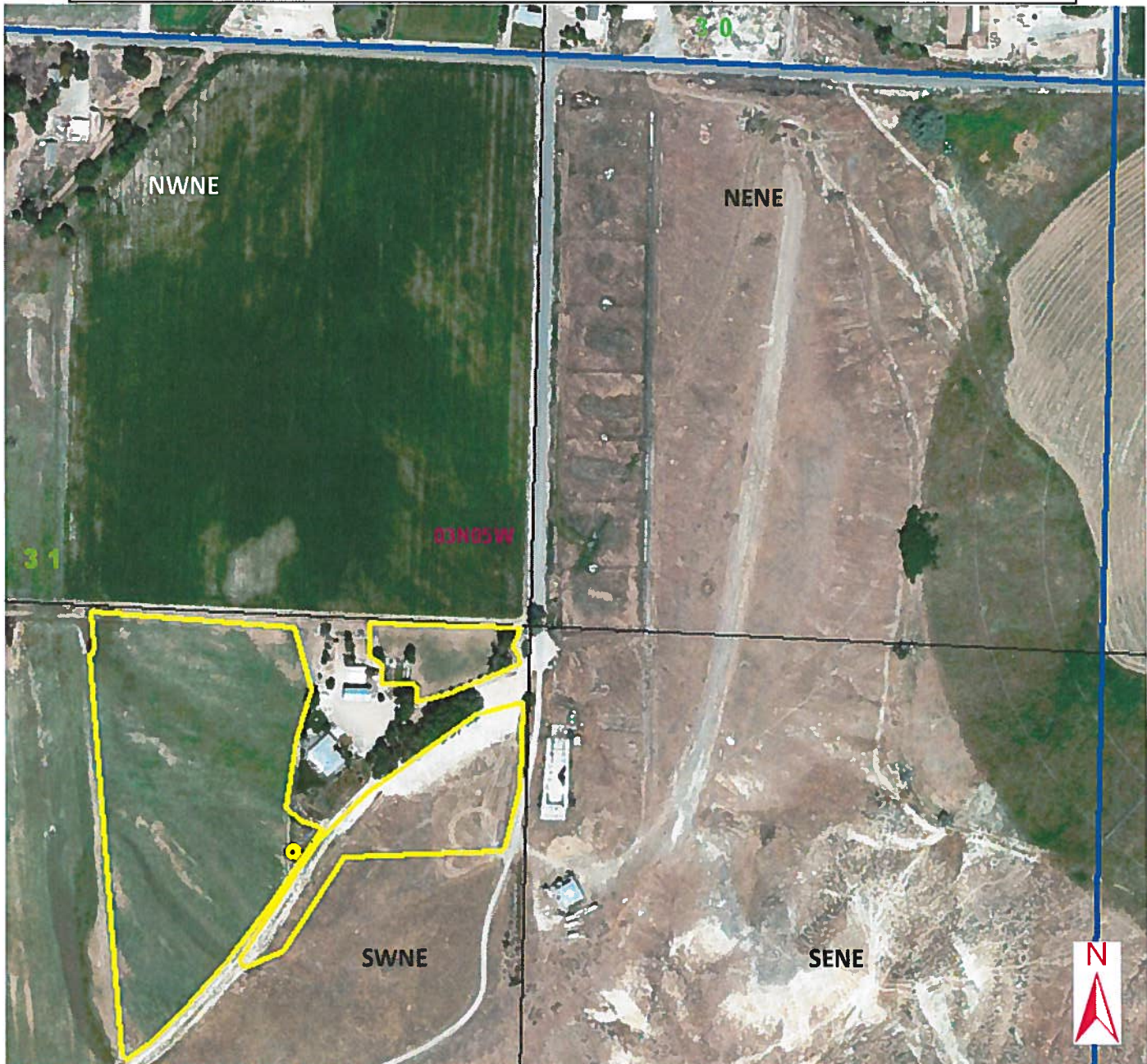
Aerial photo date 2011

Exam date 4-17-2012

Twp Rng Sec QQ

Agent KKC

3N 05W 31 SWNE



Permit # 57-11698

Exam date

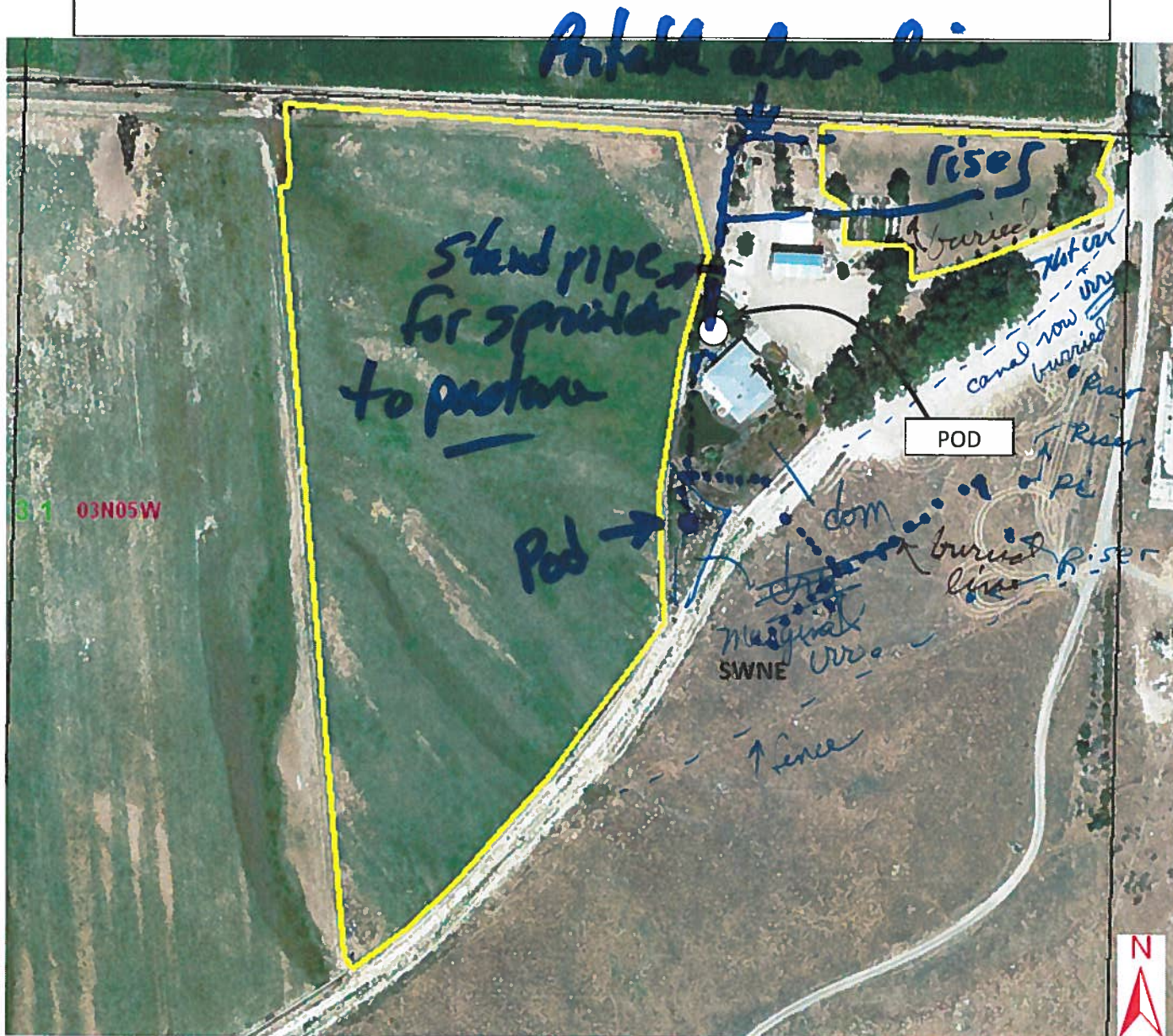
Agent

4/7-2012
KKC

FIELD EXAM MAP

Aerial photo date 2011

Twp Rng Sec QQ
3N 05W 31 SWNE



57-11698

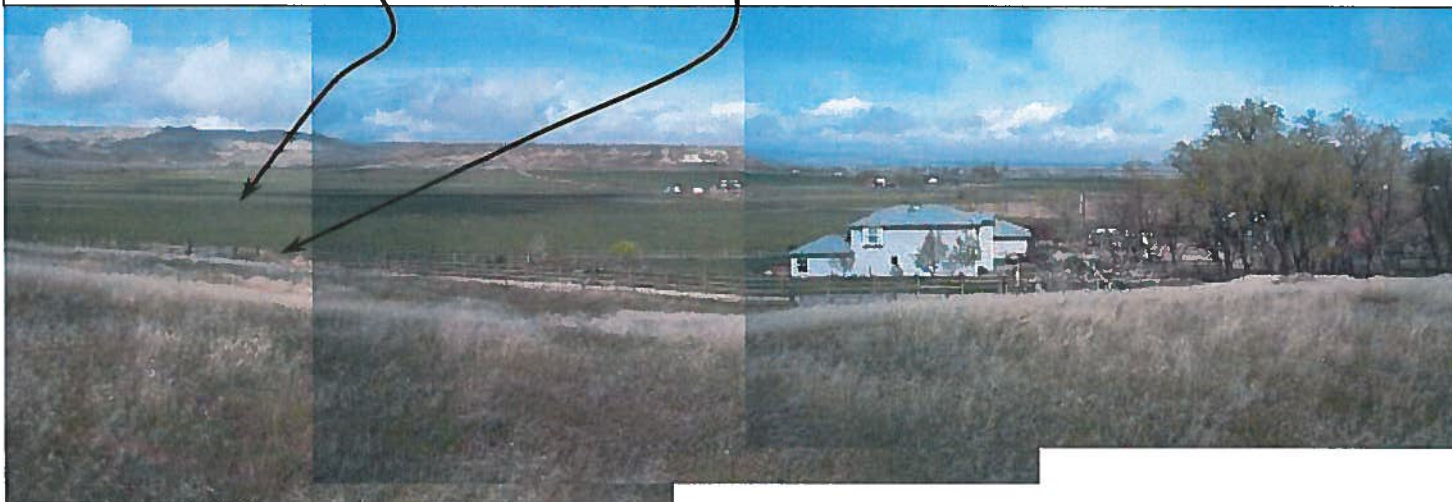
Exam date 4-17-2012

Photo set 1

This photo set is looking southwest on the left to northwest on the right. I was standing close to the eastern border of the POU. The POU extends slightly outside the picture range on either side of this photo set.

Western boundary of POU

Well



57-11698

Exam date 4-17-2012

Photos 2 and 3

Both photos are basically looking north and were taken from the middle of the eastern pasture. In the photo on the left you can see the small pasture in the northeast corner of the POU. The photo on the right shows two risers associated with the buried mainline from the well.

Risers



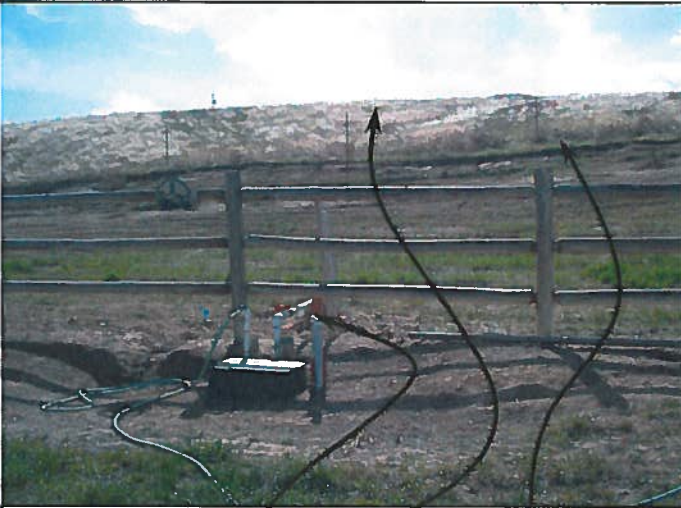
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Photos 4 and 5

You are looking east in the left photo at a junction box off the mainline running from the well to the home and beyond. A 1½ riser comes out of the box where a portable line was attached to deliver water across the canal. The canal ran northeast between the pole fence in the foreground and the wire fence further away. The canal has been tiled in this area and the surface reclaimed. The portable line ties into a riser at the wire fence for the underground delivery system described in the previous photos.

You are looking basically north in the right side photo. The ground right of the pole fence is the canal right-of-way. In the lower right corner you can see a tap into the canal pipeline that is used to supply water to the trees shown in the distance as they can no longer get water directly out of the ditch.



Mainline connection field riser pasture connection
To pasture system to buried mainline



Mainline connection To pasture system canal tap

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Photo 6

This photo is looking north toward the farmstead. The well tag number is D0012975 originally associated with domestic right 57-10243.



FIELD EXAM CONVERSATION MEMO GW SYSTEM

PERMIT # 57-11698

STAFF KKC

DATE 4-10-12

Permit Owner	Proof Contact	Tax lot Ownership	Comments
Steve Webb/Trudy	Same		
5331 Old Sullivan Ln			
Honedale Rd 83628			
337-3363			
webbcats@gmail.com			
e-mail sent 4-10-12 seeking additional info.			

APPOINTMENT DATE/TIME/PLACE _____

ANY APPARENT DISCREPANCIES BETWEEN PERMIT AND CURRENTLY AVAILABLE INFO?

(E.G. POU and/or POD mismatch when viewing ArcMap)

Potential O/C with 57-7234 (doesn't appear likely now) (forfeited)

Stockwater a part of 57-10243 (dom/stock right) dom includes lawn? recognizing lawn is independent of this right.

SYSTEM INFO

Ground Water System

Well Log Static pumping level 9'

Estimated pumping level 100

Dynamic pumping level 100

Approx HP

Approx Operating PSI

Well drilling upgrade fee P/D - Receipt WD35684

Application method

Pump Curve available

Approx type/number sprinklers used

Measurement device type

Delivery system specifications

Vol 12ac = 54af
 $.16 * 1.98 * 260 = 82.4af$

Drilling fee upgrade
 previously paid.

$$\frac{(5) \text{ Hp} * 8.8 * 0.7}{(40) \text{ PSI} * 2.31 + 100} \text{ ft} = 0.16 \text{ cfs}$$

$$0.16 \text{ cfs} * 0.02 = 0.0032 \text{ cfs/ac}$$

$$0.0032 \text{ cfs/ac} * 12 \text{ ac} = 0.0384 \text{ cfs}$$

Permit Rate =
 Proof Pd (\$ 1000) (max cfs) = 1.00 cfs max
 Found POU acres 12 * 0.02 cfs/ac = 0.24 cfs