

4/2014

IN-OFFICE BENEFICIAL USE EXAM REPORT

Permit No. 65-23169

Prepared by VICKY MUSIC

Date 8/18/2014

Same as permit Different than permit

Owner Name	☒	☐ _____
Owner Address	☒	☐ _____
Source	☒	☐ _____
Tributary	☒	☐ _____
POD	☒	☐ _____
POU	☐	☒ <u>2.5 acres irrigation - not 5</u>
Beneficial Use(s)	☒	☐ _____

Exam Fee Required for Permitted Rate \$50

Exam Fee Paid \$50

Overlaps ☒ No ☐ Yes, summarize _____

Amendment ☒ No ☐ Yes, summarize _____

Technical Confirmation Tools

ArcMap	☒	GPS	☒
Taxlot	☒	Photos	☒
Well Log	☐	Diagrams	☒
Other	☒ explain: <u>field exam</u>		

Conditions/Comments see memo in file

Exam Date Entered ☒

Draft License Created ☒

Shapes Updated ☒



65-23169 -- Riverpond Campground. 2013 NALP. Place of irrigation use is outlined in blue. POD and delivery system labelled.

MEMORANDUM

TO: LICENSING FILE 65-23169
FROM: VICKY MUSIC
SUBJECT: FIELD EXAM AND LICENSING RECOMMENDATIONS
DATE: 8/19/2014

The permit was issued for 0.10 cfs for the irrigation of five acres within the Riverpond Campground in Crouch, Idaho. The correct fee was timely paid. This permit qualified for an in-house licensing review; however, I was uncertain as to where the place of use was in the 15 acres owned by the permittee. Also, I wanted to verify the point of diversion from the Middle Fork of the Payette River. The field exam was conducted on 8/15/2014. George Logan, the permittee accompanied me on the exam. Field photographs are included in this memo.

The point of diversion from the river is close to shore, and there is an elevation difference of about 10 feet between the river and the pump. The GPS coordinates of the pump are N 44.10977, W -115.97871. The POD from the river is about 10 feet south of the GPS point.

The electric pump is a 3 hp magnatec with a Century AC motor. There is a pressure gauge on the pump/motor assembly. Mr. Logan stated that the pressure is 80 psi during operation. The motor SN is 182801.

Water is pumped through a 2-inch diameter rubber hose to 1 ¼ -inch buried pipe to the 12 sprinklers. The piping reduces in size to ¾- or 1-inch diameter to the sprinkler heads. The purpose of the irrigation is to keep camp and RV sites green. Mr. Logan planted grasses in the past, but much of the vegetation appears native or weedy. The sites were observed to be green and mowed. The field exam verified that there are about 2.5 acres irrigated. There are no overlaps. Conditions have been met.

FLOW CALCULATION

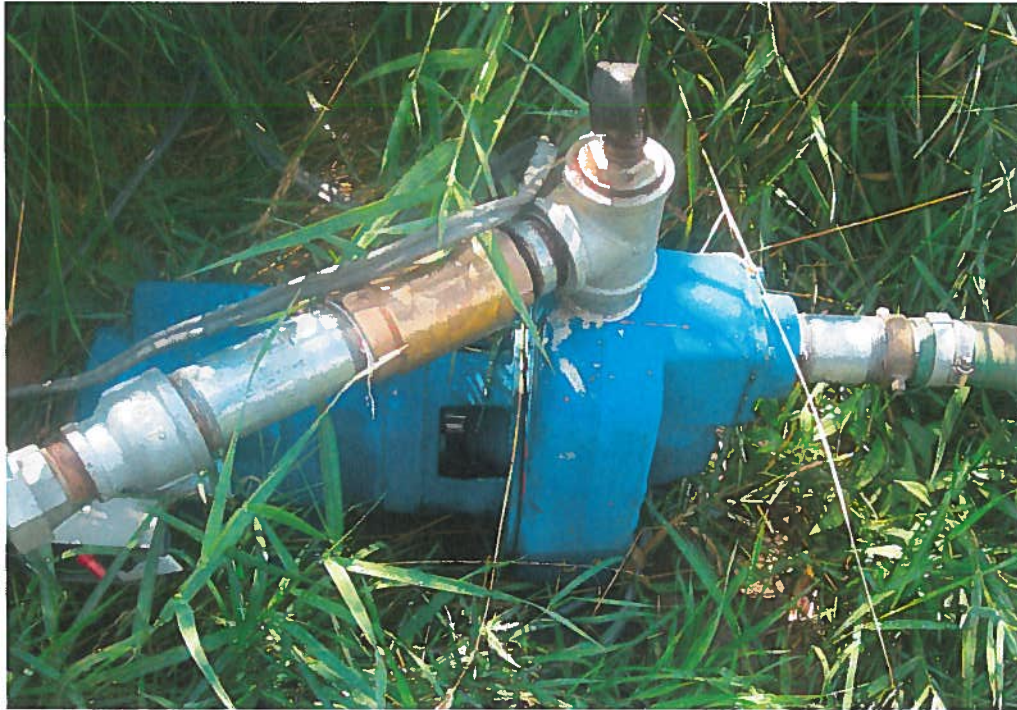
- 1] Theoretical calculation: $8.8 \times 3 \text{ hp} \times 0.7 / 10' + [2.31 \times 80 \text{ psi}] = 0.095 \text{ cfs} = 0.1 \text{ cfs}$
- 2] IDWR standard $0.03 \text{ cfs per acre for a } \text{POU} \leq 5 \text{ acres} \times \# \text{ of acres} = 0.03 \times 2.5 = 0.075 = 0.08 \text{ cfs}$

VOLUME CALCULATION

- 1] $\text{Vir} = 2.5 \times 3.5 \text{ af IDWR standard irrigation requirement} = 8.75 \text{ af} = 8.8 \text{ af}$
- 2] $\text{Vdr} = 0.08 \text{ cfs} \times 1.9835 \times 231 \text{ days in irrigation season} = 36.66 = 36.7 \text{ af}$

RECOMMENDATION FOR LICENSING

Recommend 2.5 acres, diversion rate = 0.08 cfs, and volume is 8.8, the lesser of the Vir and Vdr values.



Pump and motor.



Sprinkler head.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

May 15, 2013

George Logan
5683 Bogart
Garden City, ID 83714

RE: Scheduling Field Exam for Water Right Permit No. 65-23169

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 27, 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 0.10 cfs of surface water from the Middle Fork of the Payette River for irrigation of 5.0 acres.

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 24, 2013, to conduct the exam during the week of May 27, 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.