

4/2014

IN-OFFICE BENEFICIAL USE EXAM REPORT

Permit No. 65-23477

Prepared by VICKY MUSIC

Date 8/18/2014

Same as permit Different than permit

Owner Name	☒	☐ _____
Owner Address	☒	☐ _____
Source	☒	☐ _____
Tributary	☒	☐ _____
POD	☒	☐ _____
POU	☐	☒ <u>3.5 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 ☒



65-23477 -- 2013 NAIP -- POD and delivery system labeled. POU is outlined in blue.

MEMORANDUM

TO: LICENSING FILE 65-23377
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 from a pond 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 pond source and, point of diversion and the irrigated place of use were in the 15 acres owned by the permittee. 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 pond is a metal cistern. The cistern is about 2 feet away from the edge of the pond the day of the exam, however, Mr. Logan said that it was underwater during the early spring of each year. The GPS coordinates of the cistern are N 44.11169, W -115.97892. Mr. Logan said that the pond was about 2 feet deep the day of the exam, but during early spring, it is about 6 feet deeper. The pond is a natural feature that appears on topographic maps, and looks like a remnant of the Middle Fork of the Payette River.

The electric pump is a 3 hp McDonald centrifugal, mode # 92300, and the motor is an Everson [? – rusted]. The faceplate on the motor was rusted, so the specs were illegible. Water is pumped from the cistern through a 2-inch diameter rubber hose to 1 ¼ -inch buried pipe to the 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 has planted grasses and the sites were observed to be green and mowed. The field exam verified that there are about 3.5 acres irrigated. There are no overlaps. Conditions have been met.

FLOW CALCULATION

- 1] IDWR reference for pipe flows: flow through 2 inch pipe is 0.11 cfs.
- 2] IDWR standard 0.03 cfs per acre for a $POU \leq 5$ acres $\times$ # of acres = $0.03 \times 3.5 = 0.105 = 0.11$ cfs

VOLUME CALCULATION

- 1] $Vir = 3.5 \times 3.5$ af IDWR standard irrigation requirement = 12.25 af = 12.3 af
- 2] $Vdr = 0.1$ cfs $\times 1.9835 \times 231$ days in irrigation season = 45.82 = 45.8 af

RECOMMENDATION FOR LICENSING

Recommend 3.5 acres, diversion rate recommended is the permitted rate = 0.10 cfs, and volume is 12.3, the lesser of the Vir and Vdr values.



Pump and motor. Pipe from cistern/POD seen left.



Pond surface is covered with lilies.



Metal cistern that is the POD, seen far left.