

MEMO

To: 97-7430 McCurdy

From: Sandy Hemenway

Date: 7/26/2011

REF: Review for Licensing

A Permit was issued on 2/5/2004, with proof due on or before 2/1/2005. Proof was received on 4/14/2004, with a \$50 fee (receipt #C093491)

The 5/20/2004 **field exam** confirmed that Sanborn Creek is the only source used. A 110 volt, 10 gpm (0.1 Ace) pump, with a 5/8 inch discharge connected to a 5/8 inch hose to the pond, with an overflow that goes back to the creek. Stockwater is for 10 mixed head (cows, goats, etc). **No irrigation was found** at the time of the inspection.

The 6/23/2011 updated Tax Lot information confirms John and Tina McCurdy as **owners**. The physical address is 683 Sanborn Creek Rd, Priest River, ID 83856.

CFS

5 gallon bucket measurement:

5 gal in 60 sec = 5gpm

$(5 \times .133681)/60 = 0.01 \text{ cfs}$

Maximum capacity of 5/8 inch discharge line:

$Q = 5 \times 3.1416 \times [(0.625/12)/2]^2 = 0.0106 = 0.01 \text{ cfs}$

Recommend Total Diversion: 0.01 cfs

Volume

Stockwater/Stockwater from Storage (10 mixed head—cow, goat, pig, sheep):

Vir: 0.04, therefore recommend 0.1 af (minimum amount that can be recommended)

$2 \times 12 \times 365/325850 = 0.026$

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$2 \times 4 \times 365/325850 = 0.0089$

$4 \times 2 \times 365/325850 = 0.0089$

Stockwater/Recreation/Wildlife/Fire Protection Storage (pond):

$(78 \text{ ft} \times 69 \text{ ft} \times 6 \text{ ft} \times 0.6)/43560 = 0.4 \text{ af}$

Recommend Total Annual Volume: 0.5 af