

MEMORANDUM

Date: December 30, 2008
To: Water Right File 36-8752
From: cpadilla
Re: License Review

The system has already been inspected in a field report done on right 36-8567, which authorizes the diversion rate of 3 cfs between 11/15 and 3/15 from the same springs as 36-8752. I used that field report to license this permit since all pertinent information was provided.

This right initially was permitted for wildlife use in the amount of 3 cfs from 3/16 to 11/14 and wildlife storage in the amount of 54 af. The right holder relinquished the 3 cfs in 2006 and at the same time relinquished 2 cfs from associated right 36-8567, reducing the diversion rate from 5 cfs to 3 cfs.

License 36-8752 will include the 54 af for the ponds and since the two rights share the same point of diversion and no additional rate was authorized under this license, it will also receive a rate of 3 cfs and the same season of use as 36-8567. Appropriate combined use limits have been added to the conditions.

RECEIVED

NOV 26 1996

Department of Water Resources

COPY
from 36-8567

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 36-08567

1. Owner: Big Bend Mining & Irrigation Co. Phone No. 837-6411

Current Address: Ivan Gustafson PO Box 209, Hagerman, ID 83333

2. Accompanied by: Mr. Gustafson EXAM DATE: 3-1-96

Address: _____ **Phone No.** _____

Relationship to Permit Holder: land owner & on company board of directors

3. Source: Upper & Lower Tucker Springs tributary to Riley Creek

B. OVERLAP REVIEW

1. Other water rights with the same place of use: ~~none for wildlife~~ Permit 36-08952

2. Other water rights with the same point of diversion: Many irrigation & fish propagation rights

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

[illegible]

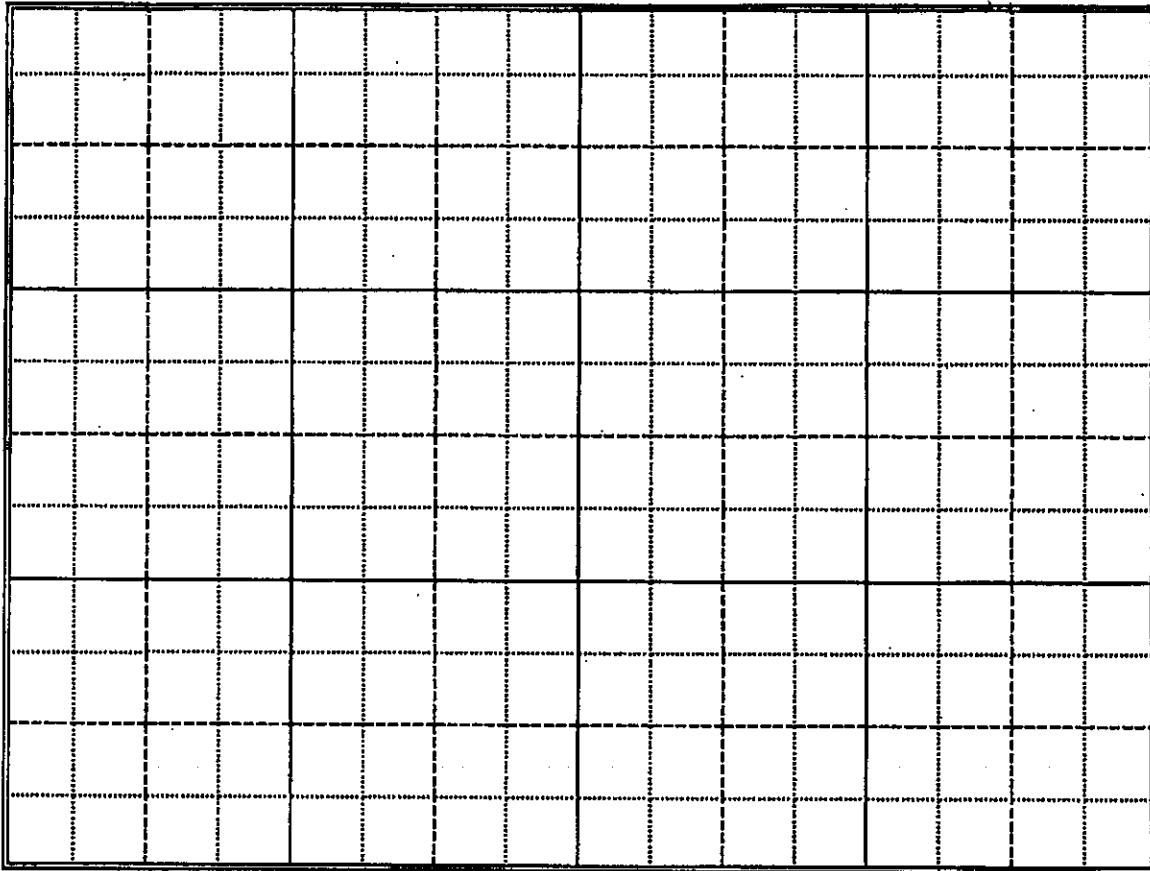
2. Place(s) of Use:

Indicate Method of Determination

[illegible]

APR 03 2002

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.D. as applicable.



Scale: 1" = _____

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

☒ Aerial Photo Attached (required for irrigation of 10+ acres)

☒ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: Flow not measured.

MICROFILMED

APR 30 1972

APR 03 21

E. NARRATIVE/REMARKS/COMMENTS

Water is diverted from Tucker Springs via the Big Bend Ditch all year long. The Ditch flows about five miles thru the Hageman Valley before ending on Mr. Gustafson's property. Water is taken out of the Ditch at various points above his property for irrigation and other uses. He also gets irrigation water thru this ditch. A total of 9539 cfs is recommended to the Big Bend Irrigation Co. in the SRBA. Depending on what upstream users are doing, flows reaching the Gustafson property vary from almost nothing to 5 cfs during the non-irrigation season.

This system is not set up to be measured. Mr. Gustafson gets what he gets and has no control over the water coming to his property. He has essentially the 1st priority on the Big Bend Ditch, so his use of water for wildlife does not affect any other users' water leaving his property and up in the ~~Sanborn~~ Buckeye Ditch.

While this permit only covers direct flow from wildlife, it should also have included wildlife storage. More water is available ~~for~~ for storage during the winter than during the summer. ^{But} Mr. Gustafson recently obtained Permit 36-08952, which includes year-round wildlife storage for the full volume of the ponds, so I am only recommending direct flow under 36-08567. Condition of Approval #11 seems to authorize storage even though no storage was applied for. We certainly don't want to license the same storage twice.

Condition of approval #5 (measuring devices) should be dropped, as it is meaningless & burdensome. The Big Bend Ditch has always run into the area where the ponds are located. Mr. Gustafson is the 1st irrigation on the ditch.

Due to the variable nature of the available flow, no realistic channel volume can be assigned.

Have conditions of permit approval been met?

yes ☒ no ☐
MICROFILMED

APR 03 2002

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{LR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{LR} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (ata)
	From	To		
Wildlife	11-16	3-14	5.0	
Totals:			5.0	

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. AUTHENTICATIONField Examiner's Name J. P. Stanton Date 11-22-96

Reviewer _____ Date _____

SEAL

MICROFILMED

APR 03 2002

From PH. CONVERSATION WITH MR. IVAN GUSTAFSON THE
Ponds Range From 1.5 to 8 FT DEEP WITH AN
AVERAGE DEPTH OF 3 FT.

4/18/91 - 10:00am - Quentin No. 8 TT

I am going to base Volume Calculations on
an AVERAGE DEPTH OF 4 FT, BECAUSE IN THE
PERMIT STAGE.

VOLUME:

Pond # 1 - $\frac{1}{2}$ acre

$$.5 \text{ ac} \times 4 \text{ ft deep} = \underline{2 \text{ ac-ft}}$$

Pond # 2 - $\frac{1}{2}$ acre

$$= \underline{2 \text{ ac-ft}}$$

Pond # 3 - 5 acres

$$5 \text{ ac} \times 4 \text{ ft deep} = \underline{20 \text{ ac-ft}}$$

Pond # 4 - 3 acres

$$3 \text{ ac} \times 4 \text{ ft deep} = \underline{12 \text{ ac-ft}}$$

TOTAL VOLUME: 36 ac-ft

EVAPORATION LOSSES: NOV. 15 - MARCH 15

ESTIMATE 2 ft

$$\frac{1}{2} \text{ ac} + \frac{1}{2} \text{ ac} + 5 \text{ ac} + 3 \text{ ac}$$

$$= 9 \text{ ac} \times 2 \text{ ft EVAP./season} = \underline{18 \text{ ac-ft}}$$

5 1/2 ac
Total

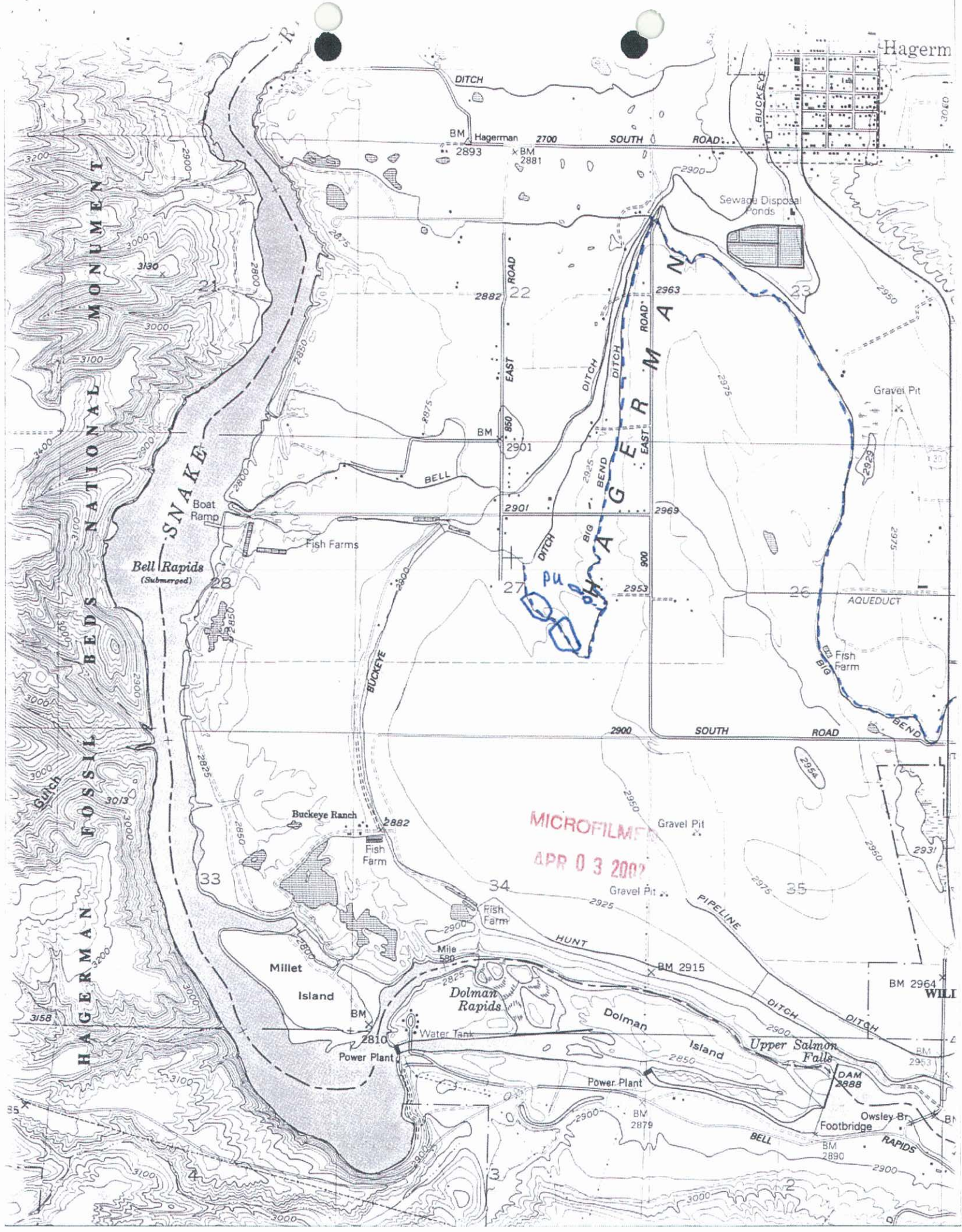
NOV. 15 - MARCH 15 - 121 days

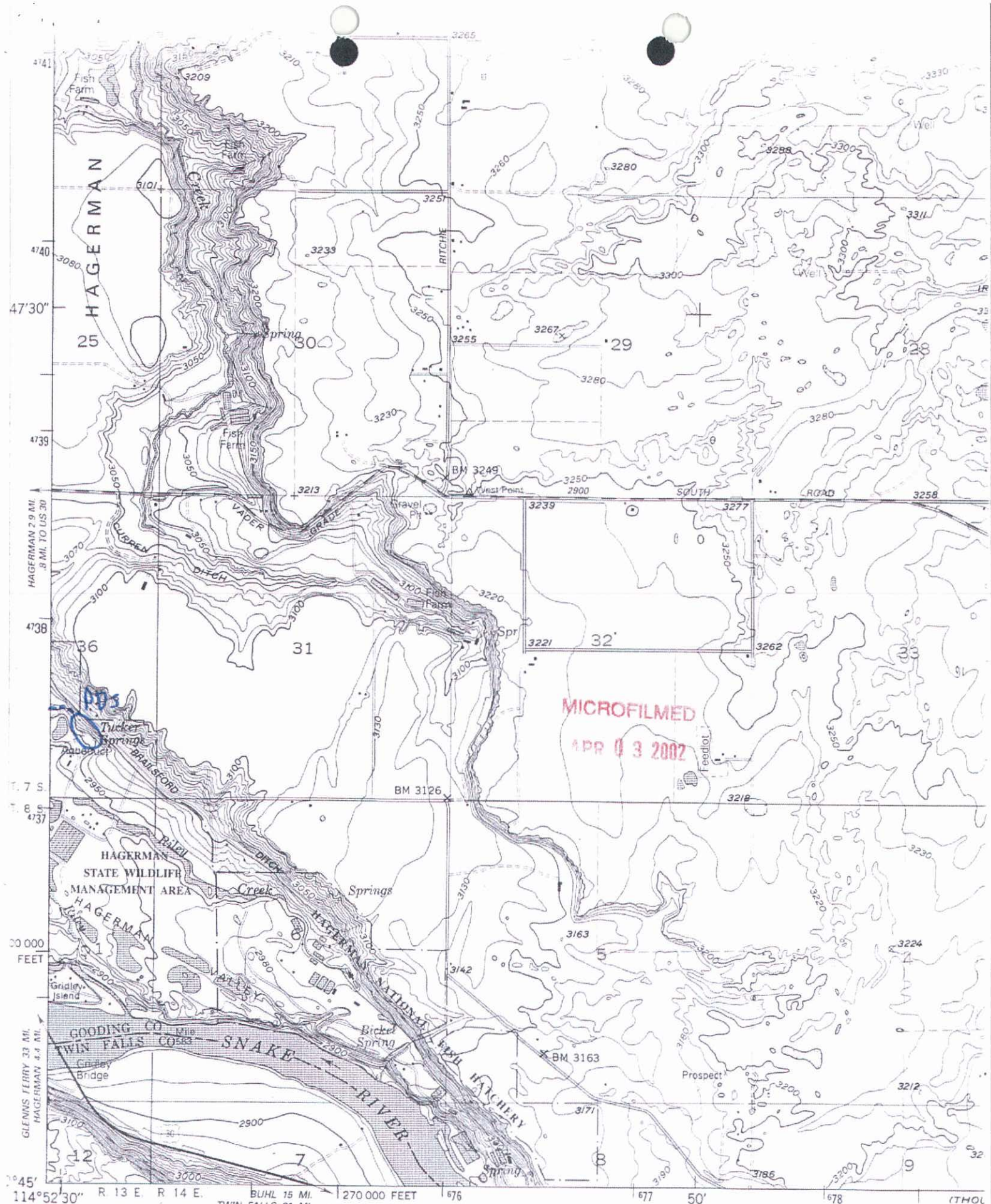
$$18 \text{ ac-ft} / 121 \text{ days} = .14876 \text{ ac-ft/day}$$

$$= .075 \text{ ft}^3/\text{sq} \quad \text{Cen: Quentin No. 8 TT}$$

W10-0111

2002





22 23
27 26

551
T-740

3
6.7

509
T-686
17.4

2
19.4

4
3.9

2
3.7

1
9.3

4
8.4

5
4.7

3
3.7

2.1

532
7.6
T-717

3

1602
T-1533

35.9

5
10.8

2.1

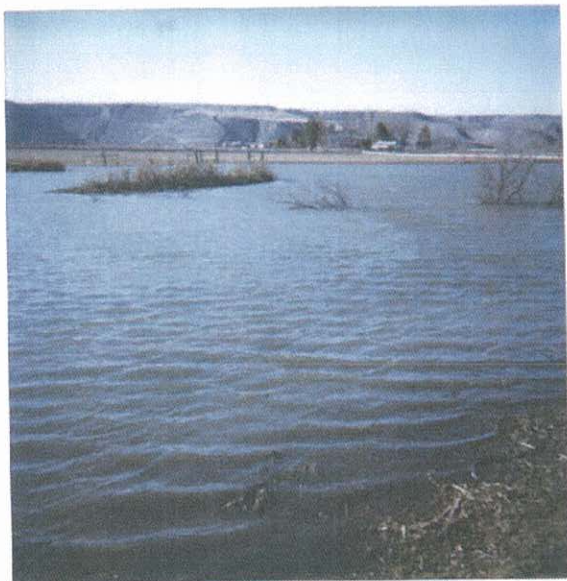
1400
T-1450

117.0

27 26
31 35

13
11.0

MICROFILMED
APR 03 2002



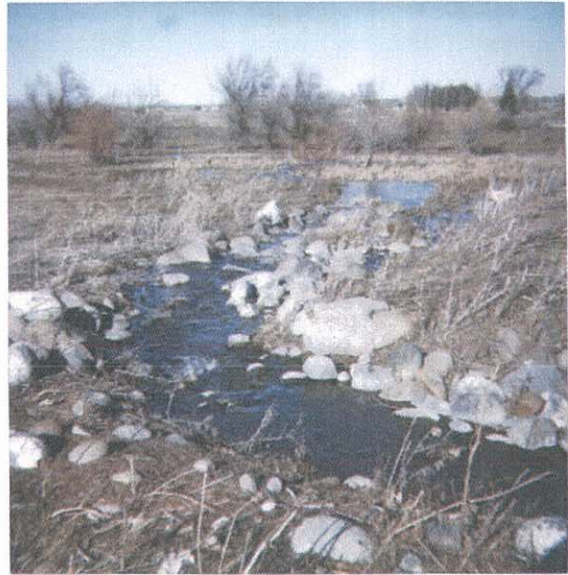
Large Ponds

MICROFILMED
APR 03 2002

36-8567
3-1-96 JES



Big Bend Ditch,
Headgate in Ditch



Private Ditch to North Pond

Pond



MICHO...

36-8567
3-1-95 JES

