

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-7732

Exam Date: 9/23/1992

1. Current Owner: ARTHUR A FAIRCHILD
PO BOX 158
MIDVALE ID 83645
(208)355-2248
2. Accompanied by: Art Fairchild (now deceased)
Current Owners/Contact: Tree Top Ranches LP, c/o Larry Williams, President
Phone No: 377-0998
Address: PO Box 8126, Boise ID 83707
Relationship to Permit Holder: Son-in-Law & President of Tree Top Ranches

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DEPARTMENT OF WATER RESOURCES

3. SOURCE

SAGE CREEK

TRIBUTARY

WEISER RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 67-2390, 67-7899, 67-14107
2. Other water rights with the same point of diversion: 67-2390, 67-7899, 67-14107

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

SAGE CREEK NE1/4NW1/4 Sec. 23, Twp 13N, Rge 04W, B.M.
WASHINGTON County

Method of Determination: Exam

2.

PLACE OF USE: IRRIGATION FROM STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N 04W 11												.8	30.0		40.0	40.0	110.8
13N 04W 12									24.0	16.0					9.3		49.3
13N 04W 13		40.0	38.0		24.0	39.0	39.0	40.0	30.0	40.0	35.0	19.0		1.4			345.4
13N 04W 14	40.0	40.0	39.0	37.0	28.0			25.0					39.0	8.6	6.1	28.0	290.7
13N 04W 23	6.6																6.6
13N 04W 24					4.2	20.0											24.2

Total Acres: 827.0

PLACE OF USE: IRRIGATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N 04W 14														X			

Method of Determination: 1992 FSA Maps, 1987 Aerial Photos/ArcView, Field Exam

3. See File 67-2390

- _____ 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. See pump station summary notes in file 67-2390 dated 4/11/05 for details of 5 pumps that divert water into the irrigation system from Fairchild Reservoir No. 2.

<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>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

D. FLOW MEASUREMENTS See File 67-2390

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>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

E. FLOW CALCULATIONS

____X____ Additional Computation Sheets Attached

Measured Method:

See calculations sheet dated 4/13/2005 in file 67-2390 for estimated capacity of ditch that feeds Fairchild Reservoir No. 2.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation: Limited to 400 Irrigation acres per the permit**

$$V_{I.R.} = (\text{acres irrigated}) \times (5 \text{ af/ac allowed from storage}) = 400 \times 5 = 2000 \text{ af}$$

$$V_{D.R.} = \text{Fairchild Reservoir No. 2 Capacity} = 108 \text{ af, limited to 42 af per permit}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 42 \text{ af}$$

2. Volume Calculations for Other Uses:

Capacity of Fairchild Reservoir No. 2: 108 af per D67-7732, limited to 42 af per permit

This right when combined with right 67-7899 is limited to 108 af and 1.0 cfs.

G. NARRATIVE/REMARKS/COMMENTS

Sufficient fees were received in 1991 for proof of beneficial use. An SRBA claim was not required for this right. The field exam was conducted in 1992 on this permit and permit 67-2390 since both rights are part of an integrated system. Exam memos, notes, maps and measurements are located in file 67-2390.

The reservoir represented by this right is aka Fairchild Reservoir No. 2. The p/d on Sage Creek is also a point of withdrawal for stored water injected into the creek from Fairchild Reservoir No. 1 covered on water right 67-2390.

Fairchild Reservoir No. 2 has a storage capacity of 108 af per Dam Safety File 67-7732. This permit covers 42 af storage and Permit no. 67-7899 covers the remaining. Both permits list 1.0 cfs natural flow from Sage Creek. The purpose of the permits is basically to cover additional storage of natural flow water from Sage Creek in Fairchild Reservoir No. 2 that can occur when water is not being released and injected into Sage Creek from Fairchild Reservoir No. 1.

A ditch with a flume is used to divert water from Sage Creek to Fairchild Reservoir No. 2. An 18 inch main is then used to divert water from the reservoir to a pumping station consisting of 5 pumps that feed 2 mainlines used for sprinkler irrigation.

A Mannings measurement was attempted at the flume location along the diversion ditch during the 1992 exam, but the tripod broke. Steve calculated that a flow capacity of 1.0 cfs could easily be diverted from Sage Creek based on cross section and high water mark measurements taken at the flume located on the ditch. All of Sage Creek is diverted into this ditch, which includes the injected water from the upper reservoir.

827 acres were recommended for licensing under permit 67-2390. This right is limited to 400 acres irrigation within the recommended 827 acre ppu.

Other overlaps include SRBA claims 67-14107 and 67-2302. Claim 67-14107 lists the same p/d from Sage Creek in S23 for irrigation of generally the same lands recommended for licensing. The claim is a combination of several decreed rights from Sage Creek. Claim 67-2302 is for ground water irrigation of 10 acres in S13 that appear to be separate from the acres recommended for licensing.

No measuring devices were found above and below Fairchild Reservoir No. 2 as required on the permit. Steve stated that lockable diversion works are not required and are not applicable since the entire flow in Sage Creek is diverted into the ditch. The right is subject to watermaster control. If needed, the watermaster could require some/all of the flow to remain in the creek tributary to the Weiser River. The measuring device requirement needs modified to account for water flowing into but not out of the reservoir because the re-regulating storage use of Fairchild Reservoir No. 2 for water right 67-2390 makes measurement of water flowing out of the reservoir not needed or useful. This right is subject to the 6/15 cutoff date. If cutoff, storage from right 67-2390 can continue to be diverted from Sage Creek to the re-regulating reservoir for irrigation from storage.

Have conditions of permit approval been met? ____ Yes ____X____ No See above and also page 2 of Steve's exam summary dated 4/13/05

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	1.000 CFS	
IRRIGATION FROM STORAGE	03/15 to 10/31		42.00 AF
IRRIGATION STORAGE	01/01 to 12/31		42.00 AF
	<u>Totals:</u>	1.000 CFS	42.00 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 Don Gnanen Date 6/1/05

Reviewer _____ Date _____

EXAMS 67-2390 AND 67-7732

Steve Lester
4/13/05

Per original exam notes from 9/23/92, accompanied by Art Fairchild (now deceased, how handle assignment process?)

Compare exam fees paid, Q estimated, beneficial uses & permit Q for correct license recommendations.

Little to no flow during exam and irrigation system was off.

67-2390

Divert entire unnamed stream to earth ditch.

Ditch injects into another unnamed stream aka "Summercamp Creek."

Plot P/D on topo 1.2 miles upstream along ditch from point of injection.

Measuring point #1 about $\frac{1}{2}$ way between this P/D and point of injection, used Mannings for dry ditch.

Ditch withdraws injected water from "Summercamp Creek" and additional water from "Summercamp Creek." Two stock ponds along ditch are filled. Upper pond is 3' deep, lower pond is 4' deep, estimate surface area from topo to estimate capacities.

Ditch continues to Fairchild Reservoir, 3700 af capacity per D67-2390. Dam serves as P/D for additional runoff captured in reservoir.

Sources are unnamed streams (plural) tributary to Sage Creek but not Sage Creek proper. Locals probably call drainage that reservoir is on a fork of Sage Creek.

3 P/D: ditch from unnamed stream, ditch from "Summercamp Creek" and Fairchild Reservoir dam.

Storage released into another unnamed stream below dam, flows to Sage Creek (point of injection).

Withdrawn from Sage Creek at P/D for 67-7732, storage from 67-2390 is released and re-stored in reservoir in 67-7732 as needed.

Permit used old terminology to define b.u. but needs to be updated:

- 3.16 cfs div to storage all year, use Mannings data from measuring point #1 to estimate ditch capacity. Same ditch continues past "Summercreek Creek" so this estimate is ok for entire cfs portion of permit.
- 3700 af irrigation storage all year (can have up to 5 afa/acre from storage, $740 \times 5 = 3700$. Can recommend full 3700 unless < 740 acres found. If < 740 found, can recommend # acres $\times 5 = \underline{\hspace{1cm}}$ afa storage per 5 afa/acre limit.
- Stockwater – cfs or storage? Q not defined in permit. Number/type of stock? Stock use ditch, 2 stock ponds and Fairchild Reservoir. Can split lots of hairs on this but appears intent was to develop 2 stock ponds so probably best to just cover those 2 ponds ... use cfs limit per #/type of stock vs 24 hr. fill for those ponds to see if should recommend natural flow vs. storage for stockwater. But stock P/U probably covers 2 ponds, ditches, Fairchild Res., Fairchild #2 Res. and irrigated acres (give benefit of doubt on this to wateruser). Neglected to get specs on stock during exam.

Claim 67-2390 includes a fair description of this system.

Forgot to discuss overlap with owner during exam.

67-7732

Post-1987 proof but part of integrated system.

Source is Sage Creek, P/D is point of withdrawal from creek also used by 67-2390 storage that is released upstream to Sage Creek.

Ditch with flume to Fairchild #2 Reservoir. This holds about 80 af and is primarily re-regulating storage from 67-2390 storage. But 67-2390 storage could be full and could divert from Sage Creek to provide more storage to Fairchild #2 Reservoir. OK to recommend natural flow plus storage in newer permit to cover that scenario ... would expect this to happen early in irrigation season. Ok to recommend natural flow irrigation per dept. standards.

18" main from reservoir to pumping station (5 pumps), then to 2 mainlines and onto variety of pivots, wheel lines and hand lines.

All irrigation is on north and west sides of Hwy 95. See copy of claim 67-2390 map for irrigation/stock boundary.

Permit only lists 42 af storage for this 80 af capacity. Should be ok since balance covered as re-regulation of storage from 67-2390.

Measuring point #2 is flume along Sage Creek diversion ditch. Flow too low to measure with current meter. Second tripod broke down in exam when tried to do Mannings so could not complete that (Fairchild was no longer present as I did these follow up details, no help to hold rod, which is why I used #2 tripod to hold rod). See notes about ditch easily able to convey 1.0 cfs.

No measuring devices found above & below Fairchild #2 Reservoir as required in permit. Lockable diversion works not required and n/a since entire creek diverted to ditch. Watermaster could require some/all flow to remain in creek and then to Weiser River if needed, so this is workable. Ok to license but keep measuring device requirement for water flowing into but not out of reservoir (role of 67-2390 makes measurement out of re-regulating storage not needed or useful). Also note 6/15 cutoff date for this permit.

Even if 67-7732 was cutoff after 6/15, storage from 67-2390 can be diverted from Sage Creek to re-regulating reservoir so irrigation from storage would continue.