

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-7899

Exam Date: 9/23/1992

1. Current Owner: ARTHUR A FAIRCHILD
914 Houston Rd
Boise ID 83706
(208)383-0000
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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JUN 24 2005

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, 67-7732, 67-14107
2. Other water rights with the same point of diversion: 67-2390, 67-7732, 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 800 acres irrigation per permit**

$$V_{I.R.} = (\text{acres irrigated}) \times (5 \text{ af/ac allowed from storage}) = 800 \times 5 = 4000 \text{ af}$$

$$V_{D.R.} = \text{Fairchild Reservoir No. 2 Capacity} = 108 \text{ af, limited to 66 af (permit 67-7732 covers the other 42 af)}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 66 \text{ af}$$

2. Volume Calculations for Other Uses:

Capacity of Fairchild Reservoir No. 2: 108 af per D67-7732

This right when combined with right 67-7732 is limited to 108 af and 1.0 cfs

G. NARRATIVE/REMARKS/COMMENTS

Sufficient fees were received in 1998 for proof of beneficial use. An SRBA claim was not required for this right. A field exam was conducted in 1992 on permits 67-2390 & 67-7732. All three rights are part of a common 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. Permit 67-7732 covers 42 af storage and this permit 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 800 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.

For some reason, this permit was issued without standard conditions as listed on associated permit 67-7732. Since both permits represent the same diversion, reservoir and acres, they should be conditioned similarly.

Have conditions of permit approval been met? ☒ Yes ☐ No

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		66.00 AF
IRRIGATION STORAGE	01/01 to 12/31		66.00 AF
	<u>Totals:</u>	1.000 CFS	66.00 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 Lo Guzman Date 6/1/05

Reviewer _____ Date _____

Graves, Lori

From: Westra, John
Sent: Thursday, June 02, 2005 8:05 AM
To: Graves, Lori; Rauhut, Manuel
Subject: FW: Fairchild No. 2 Dam (D67-7732)

Lori, Manuel,
FYI

John

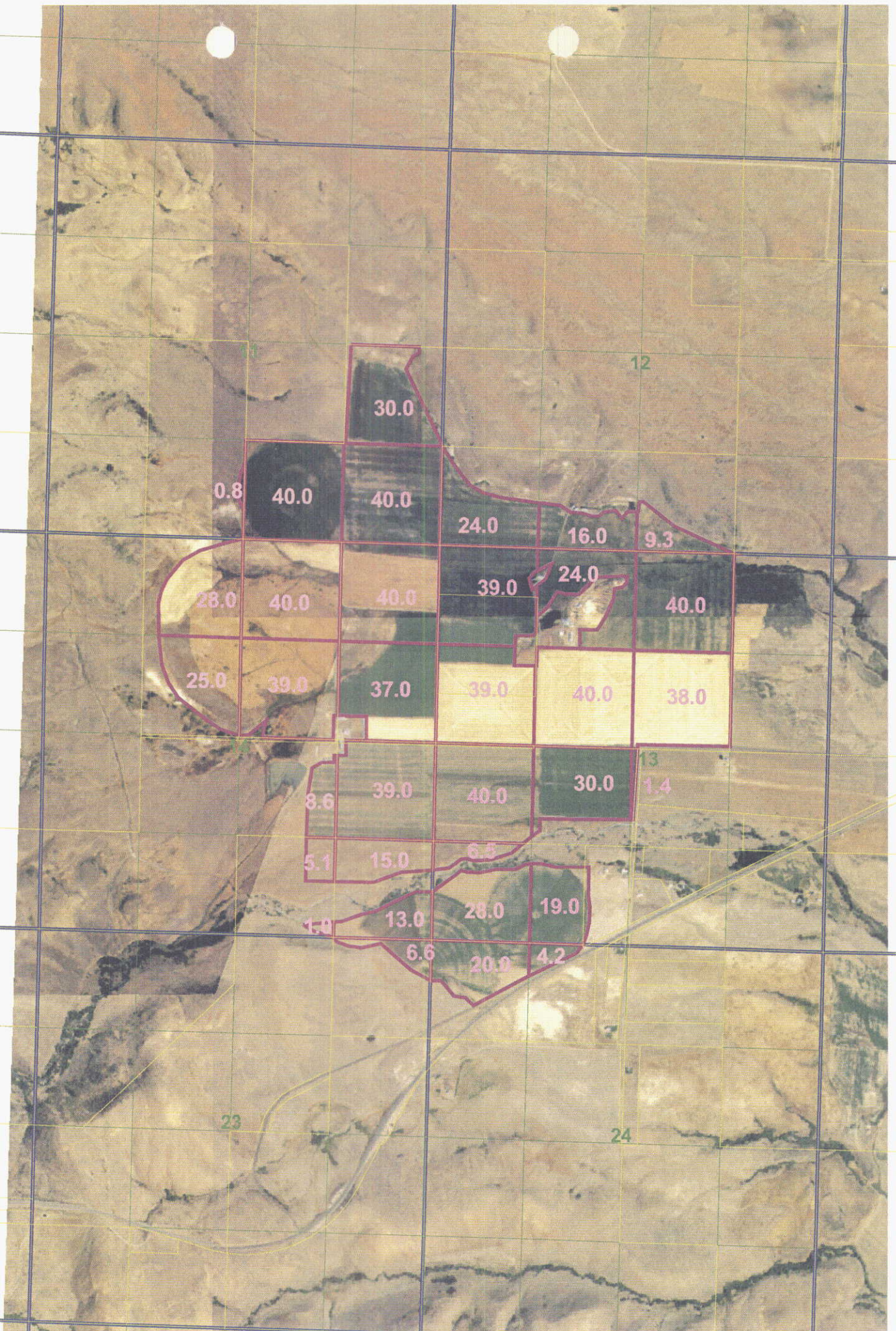
-----Original Message-----

From: Stubblefield, Mike
Sent: Thursday, June 02, 2005 8:03 AM
To: Westra, John
Subject: Fairchild No. 2 Dam (D67-7732)

John,

I have changed the data summary sheet for Fairchild No. 2 Dam so that the capacity is 108 ac-ft (80 ac-ft of active storage and 28 ac-ft dead storage).

Mike



&
or