

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 25-7567

Exam Date:

1. Current Owner: BOYD FOSTER
PO BOX 308
RIGBY ID 83442
(208)745-7745
2. Accompanied by: Boyd Foster
Phone No: same as owner
Address: same as owner
Relationship to Permit Holder: self

3. **SOURCE**

WILLOW CREEK

TRIBUTARY

SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: yes
2. Other water rights with the same point of diversion: yes

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

WILLOW CREEK

SW1/4SE1/4

Sec. 16, Twp 03N, Rge 40E, B.M.

BONNEVILLE County

Method of Determination: Aerial Photography and GPS taken during field examination

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03N	40E	16											36.0	39.0			3.3		78.3
03N	40E	20	38.0			40.0													78.0
03N	40E	21	15.0	16.0	40.0	39.0	40.0	39.0	40.0	40.0					40.0	40.0	40.0	40.0	429.1
03N	40E	22							5.5										5.5
03N	40E	27						28.0											28.0
03N	40E	28	40.0	40.0															80.0

Total Acres: 698.8

Method of Determination: 2004, 2006 Aerial Photography, 1998, 2003 Landsat imagery, and maps produced by field examiner

3. ☐ 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.

<u>Well or Diversion 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 Size</u>
70430	Westinghouse	600	73F5669	Layne&Bowler	44567
Booster (sec 28)	Westinghouse	200	7604	unknown	Cast# H20M17100A
70428	GE	100	BXJ201284	Vertiline	
70429					

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
flowmeter	Sonic	Fuji				

2. Measurements:

See attached

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

Q= 4390.5 GPM or 9.78 CFS Limited To 9.5 CFS by permit

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

#1 pivot @ 1600 gpm #4 circle
 #2 pivot @ 800 gpm
 #6 and 7 pivot @ 1000 gpm each
 #14 and 10 Pivot @ 100 GPM each

~80 nozzles for corners

This water right only authorizes the diversion of water from pump in sec. 16 in Willow Creek

Two ground water wells. Exchange well (sec 5) injects water into Anderson Canal (Progressive Irrigation) to replace water pumped from willow creek. The willow creek exchange pumps (sec 16) divert water into the mainline system that irrigates the place of use. The second ground water well (sec 28) with booster pumps water directly into mainline system that irrigates the place of use. The second groundwater well (sec 28) with booster pumps water directly into mainline. The mainline system also has a booster (sec 21). Mainline delivers water to ~13 center pivots and hand-lines with sprinklers.

The exchange well (sec 5) has a measuring device. During the initial exam the meter was broken. After the meter was repaired it did not appear to be accurate. Groundwater measurement district was able to take a sonic meter reading.

The exchange pumps (sec 16) pumps from Willow Creek have meters but were broken at the time of the exam. Several attempts were made to measure the diversion rate (using polysonic TF-P #149743/26863 and the DCT-7088). The sonic meter readings indicate that all diversion rate (exchange pump) measurements from willow creek were inaccurate.

(Exchange pump from willow creek under 25-7567 and 25-7592)

A single beneficial use field exam was conducted for 25-7494C, 25-7567, and 25-7592

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>
IRRIGATION	06/01 to 09/01	9.500 CFS	
<u>Totals:</u>		9.500 CFS	

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 Kieth Wilson Date June 22, 1998

Reviewer Nate Arave Date June 6, 2007

13058015

7/7/95 NORTH 12000PM 220.56714
- 301.85910

13058015
Boyde Foster
LOG NAME:WILLOY
START :02-08-07 14:53
END :02-08-07 15:03
INTERVAL:00:01:00

02-08 14:53:00
+4.906E+0 ft/s
+4.427E+3 gal/m
+9.864E+0 ft3/s
+TOTAL 0011582 gal
NORMAL

02-08 14:54:00
+4.841E+0 ft/s
+4.369E+3 gal/m
+9.735E+0 ft3/s
+TOTAL 0015976 gal
NORMAL

02-08 14:55:00
+4.851E+0 ft/s
+4.378E+3 gal/m
+9.754E+0 ft3/s
+TOTAL 0020371 gal
NORMAL

02-08 14:56:00
+4.844E+0 ft/s
+4.371E+3 gal/m
+9.739E+0 ft3/s
+TOTAL 0024768 gal
NORMAL

02-08 14:57:00
+4.877E+0 ft/s
+4.401E+3 gal/m
+9.807E+0 ft3/s
+TOTAL 0029143 gal
NORMAL

02-08 14:58:00
+4.886E+0 ft/s

+4.409E+3 gal/m
+9.825E+0 ft3/s
+TOTAL 0033564 gal
NORMAL

02-08 14:59:00
+4.894E+0 ft/s
+4.416E+3 gal/m
+9.840E+0 ft3/s
+TOTAL 0037973 gal
NORMAL

02-08 15:00:00
+4.844E+0 ft/s
+4.371E+3 gal/m
+9.740E+0 ft3/s
+TOTAL 0042384 gal
NORMAL

02-08 15:01:00
+4.884E+0 ft/s
+4.407E+3 gal/m
+9.820E+0 ft3/s
+TOTAL 0046790 gal
NORMAL

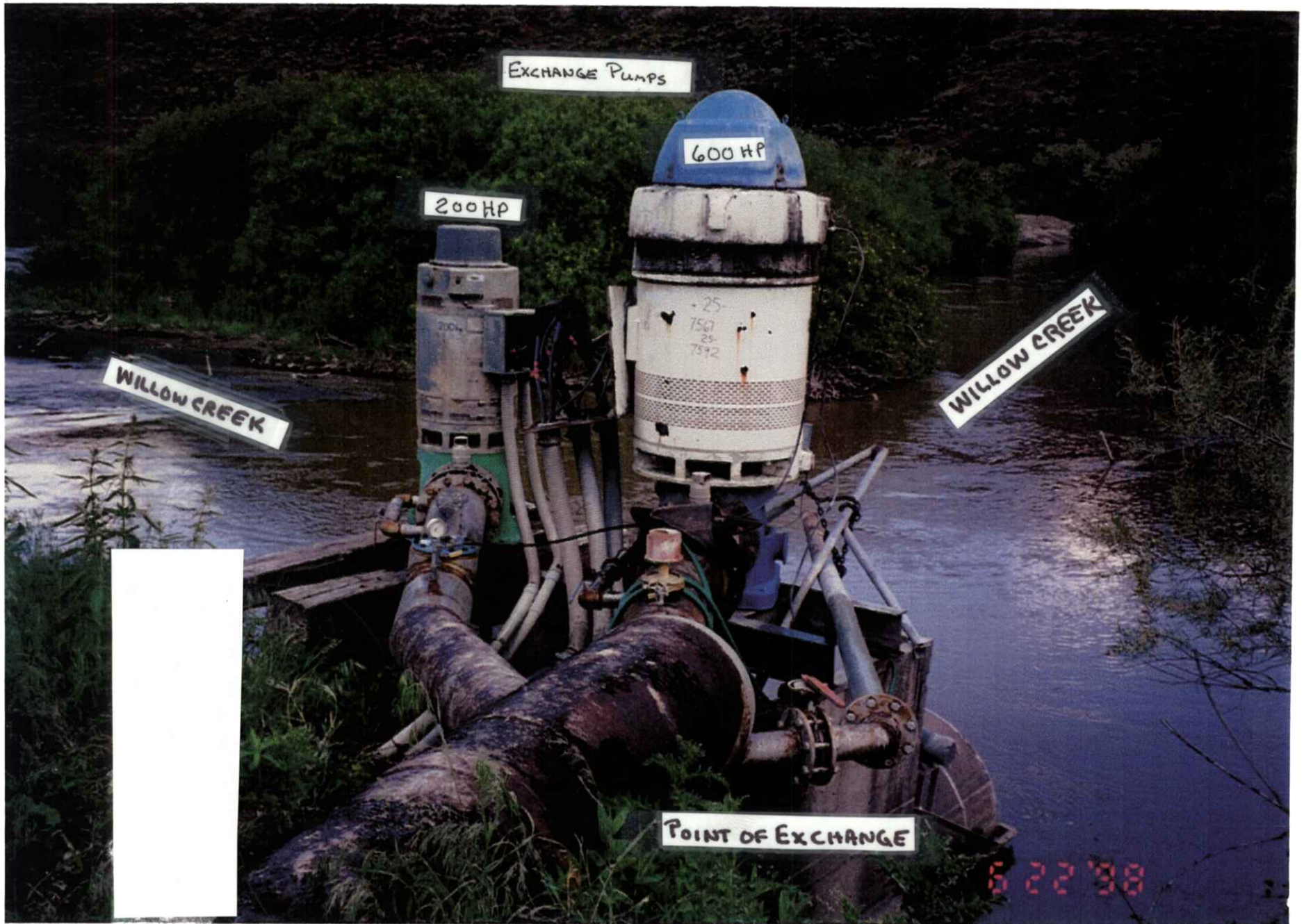
02-08 15:02:00
+4.851E+0 ft/s
+4.378E+3 gal/m
+9.755E+0 ft3/s
+TOTAL 0051210 gal
NORMAL

02-08 15:03:00
+4.841E+0 ft/s
+4.369E+3 gal/m
+9.734E+0 ft3/s
+TOTAL 0055599 gal
NORMAL

$$Q_{max} = 9.86 \text{ cfs}$$

$$Q = 4390.5 \text{ gpm} = 9.78 \text{ cfs}$$

$$Pcc = 4.62 \times 80$$



EXCHANGE PUMPS

200 HP

600 HP

WILLOW CREEK

WILLOW CREEK

POINT OF EXCHANGE

6 22 '98

Comment Report

25-7567

1. kwilson 6/22/1998 Field Report Narrative

Comment: #1 pivot @ 1600 gpm #4 circle

#2 pivot @ 800 gpm

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#14 and 10 Pivot @ 100 GPM each

~80 nozzles for corners

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2. narave 6/6/2007 POD

Comment: Updated shape

3. narave 6/6/2007 POU

Comment: Updated Shape

4. narave 6/6/2007 POU

Comment: Updated PLS

5. narave 6/6/2007 Place of use comparison
Comment: Water rights with overlapping POUs are:

25-7494C

25-57A

25-57B

25-59

25-136B

25-137B

25-7592

6. ANDREGG 11/9/1992 Proof of Beneficial Use Rcvd
Comment: Proof of Beneficial Use Rcvd

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	25 2123	LEO H PARKER,	GROUND WATER	03N40E16					40	40	23	23									126
Right	25 7018	NANCY MC CRACKEN, BONNIE BARNES,	GROUND WATER	03N40E16	39	40	32	39									23				173
Right	25 7068	LEO H PARKER,	GROUND WATER	03N40E16					40	40	23	23									126
Permit	25 7567	BOYD FOSTER,	WILLOW CREEK	03N40E16											40	40			12		92
Permit	25 7494C	FOSTER CO,	GROUND WATER, WILLOW CREEK	03N40E16										40	40	40				20	140
Rec	25 7018	RUSSELL SCHWENDIMAN, MALISSA SCHWENDIMAN,	GROUND WATER	03N40E16	39	40	34	39									30	1			183
Rec	25 14161	MALISSA SCHWENDIMAN, RUSSELL SCHWENDIMAN,	GROUND WATER	03N40E16	39	40	34	39									30	1			183
Rec	25 2123	DIANE P SCHWENDIMAN, VAL E SCHWENDIMAN,	GROUND WATER	03N40E16					40	40	33	26									139
Rec	25 7068	VAL E SCHWENDIMAN, DIANE P SCHWENDIMAN,	GROUND WATER	03N40E16					40	40	33	26									139
Rec	25 14164	DIANE P SCHWENDIMAN, VAL E SCHWENDIMAN,	GROUND WATER	03N40E16					40	40	33	26									139
Right	25 7567	BOYD FOSTER,	WILLOW CREEK	03N40E16											36	39			3.3		78.3

[illegible]

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	25 57A	HOLLIS T SARGENT,	WILLOW CREEK	03N40E21													30	12	35	40	117
Right	25 57B	HOLLIS T SARGENT,	WILLOW CREEK	03N40E21					33	33	33	33									132
Right	25 59	HOLLIS T SARGENT,	WILLOW CREEK	03N40E21													30	12	35	40	117
Permit	25 7567	BOYD FOSTER,	WILLOW CREEK	03N40E21	10	8	40	40	40	40	40	40					40	40	40	40	418
Right	25 136B	FOSTER CO,	WILLOW CREEK	03N40E21													30	12	35	40	117
Right	25 137B	FOSTER CO,	WILLOW CREEK	03N40E21													30	12	35	40	117
Permit	25 7592	FOSTER LAND & CATTLE CO,	WILLOW CREEK	03N40E21		24							40	40	40	40					184
Permit	25 7494C	FOSTER CO,	GROUND WATER, WILLOW CREEK	03N40E21	25	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	625
Rec	25 137B	FOSTER CO,	WILLOW CREEK	03N40E21													30	12	35	40	117
Rec	25 57A	FOSTER CO,	WILLOW CREEK	03N40E21													30	12	35	40	117
Rec	25 59	FOSTER CO,	WILLOW CREEK	03N40E21													30	12	35	40	117
Rec	25 136B	FOSTER CO,	WILLOW CREEK	03N40E21													30	12	35	40	117
Rec	25 57B	FOSTER CO,	WILLOW CREEK	03N40E21						33	33	33	33								132
Right	25 7494C	FOSTER CO,	GROUND WATER, WILLOW CREEK	03N40E21	15	16	40	39	39	36	40	40	40	40	40	40	40	40	40	40	585
Right	25 7567	BOYD FOSTER,	WILLOW CREEK	03N40E21	15	16	40	39	40	39	40	40		0.1			40	40	40	40	429.1

[illegible]

[illegible]

[illegible]