

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 25-7592

Exam Date: 6/22/1998

1. Current Owner: FOSTER LAND & CATTLE
PO BOX 40
RIRIE ID 83443

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE**

WILLOW CREEK

TRIBUTARY

SNAKE RIVER

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

WILLOW CREEK

NW1/4SE1/4

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

BONNEVILLE County

Method of Determination: **SEE ORIGINAL FIELD REPORT**

2. **PLACE OF USE:** IRRIGATION

Method of Determination: 1992 aerial photography

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	40E	16									9.6	.9	36.0	40.0			4.6		91.1
03N	40E	20	37.0	36.0	37.0	40.0									40.0	31.0	34.0	40.0	295.0
03N	40E	21	15.0	16.0	40.0	39.0	39.0	39.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	588.0
03N	40E	22							5.4			30.0	38.0						73.4
03N	40E	27						29.0	18.0			39.0	40.0						126.0
03N	40E	28	40.0	40.0	40.0	39.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	639.0
03N	40E	29	40.0	31.0	33.0	40.0									40.0	30.0	32.0	40.0	286.0
03N	40E	32	25.0	.7		15.0													40.7
03N	40E	33	40.0	40.0	40.0	22.0	40.0	40.0	31.0	24.0						2.3			279.3
03N	40E	34						33.0	5.6										38.6

Total Acres: 2457.1

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. **SEE ORIGINAL FIELD REPORT**

<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>

D. FLOW MEASUREMENTS SEE ORIGINAL FIELD REPORT

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>

2. Measurements: SEE ORIGINAL FIELD REPORT

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: SEE ORIGINAL FIELD REPORT

F. VOLUME CALCULATIONS SEE ORIGINAL FIELD REPORT**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: SEE ORIGINAL FIELD REPORT**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

Rob Harris notified us that the licensing field exam place of use for permits 25-7567, 25-7592 and 25-7494C was incomplete. James Cefalo, Dave Carlson and I met with Rob to review the aerial photos from 1992 and agreed that more acres were irrigated in 1992 than had been identified in the licensing field exam. Some of the additional acres were covered under the permits; some of the additional acres were not. A small part of the place of use is covered under a trespass agreement with federal government. Another small part belongs to another land owner; an agreement between the parties is induced. We found that 2457.1 acres were being irrigated under the entire system of pivots and handlines. 25-7592 and 25-7567 are from a pump system on willow creek the total measured cfs from this source is 9.78 cfs. 25-7494C is a groundwater right from two wells, one that currently pumps water into the existing system and the other well pumps water downstream of the willow creek pump into the Anderson canal(part of progressive irrigation district) in an exchange agreement.

The total cfs from the two wells was measured at almost 27.00 cfs. The maximum allowable under permit 25-7494C is 22.00 cfs from the amounts indicated on the two proof of beneficial use submitted in 1992. Each permit had a smaller place of use. The permits will be combined into a larger combined place of use. Each permit will be limited to the number of acres listed in the respective applications. The Willow Creek rights will be limited to 9.78 cfs, including the decreed rights. The groundwater right is limited to the 22.00 cfs.

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	04/01 to 10/31	7.900 CFS	
<u>Totals:</u>		7.900 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 B. M. Jan Date 2, aug 2011

Reviewer _____ Date _____