

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-17686
Exam Date: 6/6/1996

1. Current Owner:
ED YRAGUI PO BOX 975 TWIN FALLS ID 83303-0975 (208) 733-3988
2. Accompanied by: Visited property with permission from Michelle Fletcher.
Phone No: 208-733-3988
Address: PO BOX 975
Relationship to Permit Holder: Ed Yragui's granddaughter and a trustee of the Yragui estate.
3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: N/A
2. Other water rights with the same point-of-diversion: 47-7170 (irrigation; 3.41 cfs; 200 acres; 800.0 a.f.)

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**GROUND WATER SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 23, Twp 14S, Rge 15E, B.M. TWIN FALLS County

Method of Determination: On-site visit and GPS coordinates.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14S	15E	23															27.0	3.3	30.3

Total Acres: 30.3

Method of Determination: Utilizing satellite imagery in ArcMap and Google Earth and on-site inspection.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
PODID 928896	G.E.	200	5K6325XA80B	Unknown	

*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
Tyme-Flyte	Ultrasonic Meter	Polysonics		149744		06/06/1996

2. Measurements: On 06/06/1996 Dan Nelson measured a total flow rate of 1530 gpm, or **3.41 cfs** from the well where this will be licensed. Permit 47-7169 was originally permitted for 4.0 cfs & 200 acres of Irrigation, and has been split into two permits: this permit, 47-17686 will only retain 30.3 acres of irrigation (0.152 percent of the 200 acres) resulting in a permitted flow rate of: 0.152% x 4.0 cfs = 0.61 cfs.

E. FLOW

Additional Computation Sheets Attached

CALCULATIONS

Measured Method: Theoretical Yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

H

Where Hp =

Eff = Efficiency = 70% assumed

H = total head = pumping level + (2.31 x system pressure)

H = 270' + (0 x 2.31) = 270' (from Driller's Report; well is open discharge = 0 pressure)

$$Q = \frac{8.8 \times 200 \times .70}{270} = 4.56 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 30.3 \text{ acres} \times 4.0 \text{ a.f.a.} = 121.2 \text{ acre feet}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.61 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 258.9 \text{ a.f.}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 121.2 \text{ a. f.}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

The original field exams and well measurements for permit 47-7169 and permit 47-7170 (permitted on adjacent properties), were performed on 06/06/1996. For various reasons over the years, both permits which are owned by Ed Yragui, were never licensed. After reviewing these permits this last fall, it was decided by Corey Skinner and myself that a new attempt at licensing these two permits should be started. I made several attempts at contacting Mr. Yragui by phone to no avail and eventually sent a letter to his address of record. After several weeks had passed, I received a call from his attorney, Mr. Russ Kvanvig and he indicated that Mr. Yragui was recovering from surgery, but had indicated to him that he would like us to proceed with licensing these permits. A meeting was scheduled with Mr. Kvanvig and Michelle Fletcher (Mr. Yragui's relative) to discuss the permits on 12/12/2018. Unfortunately, Mr. Yragui passed away prior to the meeting. At the meeting it was emphasized how important licensing these permits had become due to Mr. Yragui's passing, as his estate will now be owned by multiple parties that apparently want to sell the properties.

On 01/16/2019, Corey Skinner and I went out to the permitted properties to do a follow up exam of the well location and extent of irrigation. We found two separate diversion systems that both pump water from two separate wells

and discharge it into two separate irrigation ponds. Then two lift pumps in each pond deliver water from the ponds out to two pivots on each farm. Based on that trip and previous reviews of aerial imagery, we also found that although this permit was originally permitted for 200 acres, only 169.7 acres were developed on the Yragui property under permit 47-7169. Meanwhile, more than the 200 acres authorized under permit 47-7170 had been developed on the adjacent farm. At the afore-mentioned meeting, the possibility of splitting permit 47-7169 and licensing part of the additional acres developed on property owned by Mr. Yragui and adjacent to grounds permitted under 47-7170 had been discussed. After our visit to the properties, Corey contacted all parties involved and it was decided to move forward and split the permit as previously discussed. This resulted in two license amendments: one for, 47-7169, for 169.7 acres, 3.39 cfs flow rate and a volume of 678.8 acre feet annually and for this permit, 47-17686, for 30.3 acres, 0.61 cfs and 121.2 acre feet annually, which will be diverted from a different well and irrigation system that is also the same system used to divert ground water under 47-7170 and will be licensed on grounds adjacent to 47-7170's place of use. Since that system was measured at a maximum flow rate of 3.41 cfs water right 47-7170 (3.41cfs) and 47-17686 90.61 cfs) when combined will be limited to a diversion rate of 3.41 cfs.

I recommend amending this license to reflect the point of diversion and place of use as listed on page 1 of this field report. I'm recommending 0.61 cfs of irrigation on 30.3 acres, with a volume of 121.2 acre feet annually.

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 ~~11/01~~ 10/31	0.61 CFS	121.2
	<u>Totals:</u>	0.610 CFS	121.2

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 ☐ None

I. AUTHENTICATION

Field Examiner's Name Portl & North Date 2/11/19

Reviewer Cap Shinn Date 2/19/19



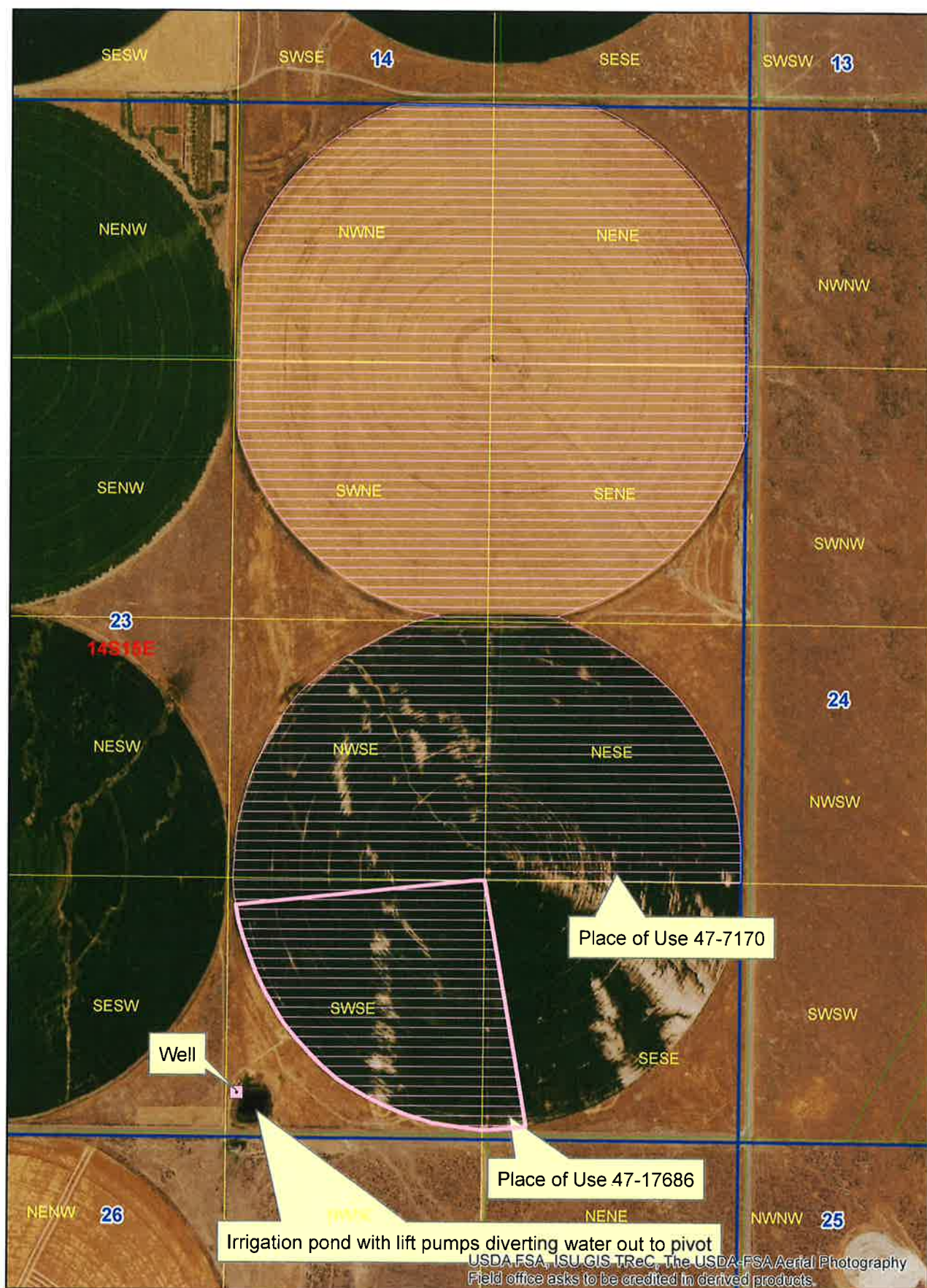
Figure 1: Point of diversion and pipeline to irrigation pond



Figure 2: POD; lift pumps and irrigation pond



System Diagram 47-17686



Attachment #1
Tyme-Flyte Measurement for 47-7170 POD 6/6/1996

07170

MODE SELECT
INPUT 1st

OUTER DIAMETER 10.0701 IN new

PIPE MATERIAL
? CS,SS

WALL THICKNESS
0.1000 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
7.567 IN U

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

ZERO MODE
ZERO OPR

06-06 10:0600 *R
+002.90 % AI2

MODE SELECT
T0 CHECK

0366.8 MMSEC
099.46 % T0

06-06 10:0700 *R
+ 1.520E 3GPM

06-06 10:0700 *R
+ 1.520E 3GPM

06-06 10:0800 *R
+ 1.530E 3GPM