

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-07170
Exam Date: 06/06/2010

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: 47-17686 (irrigation; 0.61 cfs; 30.3 acres; 121.2 a.f.)

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

GROUND WATER SW¼SE¼ 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	34.0	34.0	32.0	33.0									33.0	32.0	2.0		200.0

Total Acres: 200

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.

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 resulting in 0 pressure)

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

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 200.0 \text{ acres} \times 4.0 \text{ A.F.A.} = 800.0 \text{ acre feet}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 3.41 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 1447.4 \text{ a.f.}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 800.0 \text{ a.f.}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

The original field exams and well measurements for permit 47-7170 and permit 47-7169 (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 granddaughter) 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. Based on that trip and previous reviews of aerial imagery, we found that more than 200 acres had been developed under two pivots diverting water from a well that had been described in the wrong tract on the permit. The permit identified the well in the SESW, and it is actually located in the SWSE of Sec. 23, Twp 14S, Rge 15E, adjacent to the irrigation pond it discharges into. From the pond two lift pumps divert water out to two pivots.

I recommend amending the license to correct the legal description of the point of diversion as described in part 1 on page 1 of this field report and the distribution of acres within the place of use as described in part 2 on page 1 of this field report. I recommend licensing 3.41 cfs for irrigation of 200 acres with an annual volume of 800.0 acre feet.

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	3/15 to 11/15	3.41 CFS	800.0
	9/1 - 10/31		
	<u>Totals:</u>	3.41 CFS	800.0

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 Mark A. K... Date 2-11-19

Reviewer Py Sh... Date 2/19/19



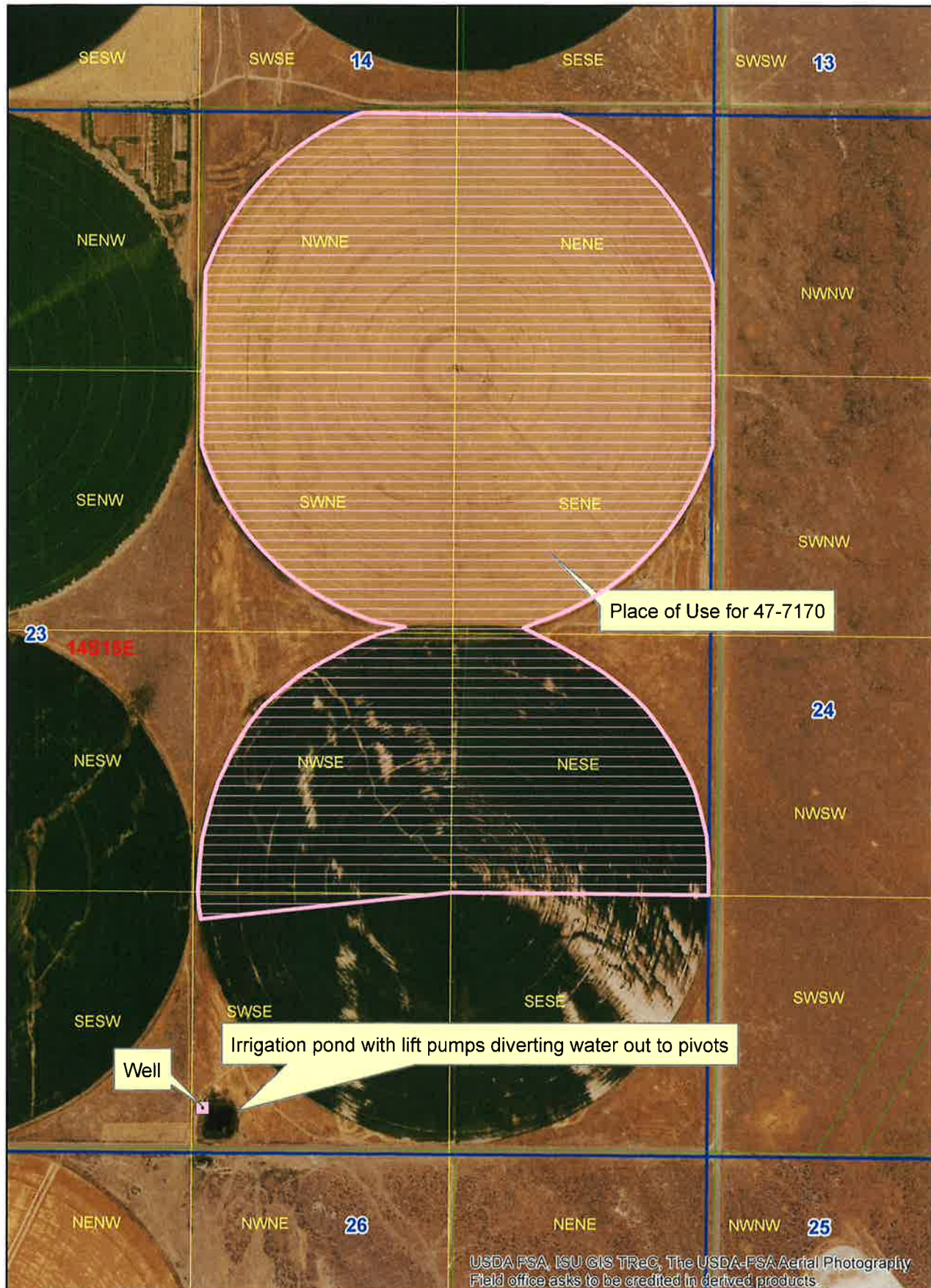
Figure 1: Point of diversion and pipeline to irrigation pond



Figure 2: POD; lift pumps and irrigation pond



System Diagram 47-7170



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

07170
MODE SELECT
INPUT 1st
OUTER DIAMETER 10.0701 IN
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