

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-15643

Exam Date: 7/17/2014

1. Current Owner: KELLY STIGILE
850 S 2500 E
HAZELTON ID 83335
(208)829-4115

And

VALERIE STIGILE
850 S 2500 E
HAZELTON ID 83335
(208)829-4115

2. Accompanied by: Kelly Stigile

3. SOURCE

WASTE WATER

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

WASTE WATER

L10 SW1/4SW1/4SW1/4

Sec. 31, Twp 09S, Rge 21E, B.M.

JEROME County

Method of Determination: A waypoint was collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2011 and 2013 aerial photography and verified the points of diversion are located as recorded. See attached map.

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	
09S	21E	31									5.9	.1	9.5	5.7		9.1	15.5	2.7	48.5
												L 9	L 10						

Total Acres: 48.5

Method of Determination: Place of use determined visually on-site and using 2013 aerial photography and verified the place of use is located as recorded. See attached map.

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>
	Baldor Reliance	15Hp			

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>
Flow Meter	Sonic	Fuji	Portaflo	7K0085TB		March 2014

2. Measurements: Flow meter measured a rate 740.4 gpm or 1.65 cfs was being pumped from the ponds.

E. FLOW CALCULATIONS N/A

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 48.5 \text{ acres} \times 4 \text{ afa} = 194 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.970 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 473.3 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 194 \text{ af}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Permit is for 0.970 cfs of irrigation applied to 48.5 acres. Application for permit was submitted 5/7/2001 by Donna M. McKinnon. A review of the application, point of diversion, place of use and receipts submitted by the applicant, indicated the irrigation system had been developed in the spring of 1980 and qualified for an exception from the Snake River Basin Moratorium consumptive use permit deadline of 11/19/1987. Proof of beneficial use was submitted 11/27/2001. Permit was assigned to Kelly and Valerie Stigile, the current owners, on 10/15/2010.

The source of the waste water developed under this permit is a ditch that carries the waste water from the North Side Canal's service area on lands just south of the Stigile property and flows into a pond on his property (which is within the Big Wood Canal Co. service area) and then continues to flow under the 2400 East Rd. and back into the North Side Canal service area where it used by other irrigators and eventually sinks in the desert approximately 1.2 miles west of the Stigile property.

According Mr. Stigile the pond is dry outside of the irrigation season.

On the day of the exam Mr. Stigile had all of the wheel lines he uses to irrigate the 48.5 acres in operation. Mr. Stigile told me that in the north parcel he uses a wheel line and furrow irrigation, and he can't operate both simultaneously as he would lose pressure in the wheel line. Using a Fuji Portaflow flow meter, I measured a 1.65 cfs flow rate diverted from the pond. I checked all the parameters of the meter, speed of sound (within 2%) and the number of bars on the display (4 out of 5) and everything was within acceptable parameters. Since all of the irrigation in use at the time was sprinkler irrigation, I asked Mr. Stigile if he was irrigating more acreage and he told me the pvc pipelines that deliver water to the adjacent parcels have several leaks. I drove and walked out to each parcel to verify place of use, and found a mix of hand-lines and wheel lines, and the irrigation was consistent with 2013 imagery. Driving between the southwest and southeast parcels, I did notice a substantial leak in the pvc pipeline.

Mr. Stigile also uses 236 shares of American Falls Reservoir District No. 2 water delivered from the Milner-Gooding canal, some of which he uses on approximately half of the northern parcel and the rest on other lands he owns to the east of these parcels.

Recommend licensing 0.97 cfs, with a volume of 194 af for the irrigation of 48.5 acres.

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	03/15 to 11/15	0.970 CFS	194 AF
<u>Totals:</u>		0.970 CFS	194 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 Bill Mills Date 7-29-2014

Reviewer [Signature] Date 8/7/14



Figure 1: 15 Hp pump adjacent to the pond.

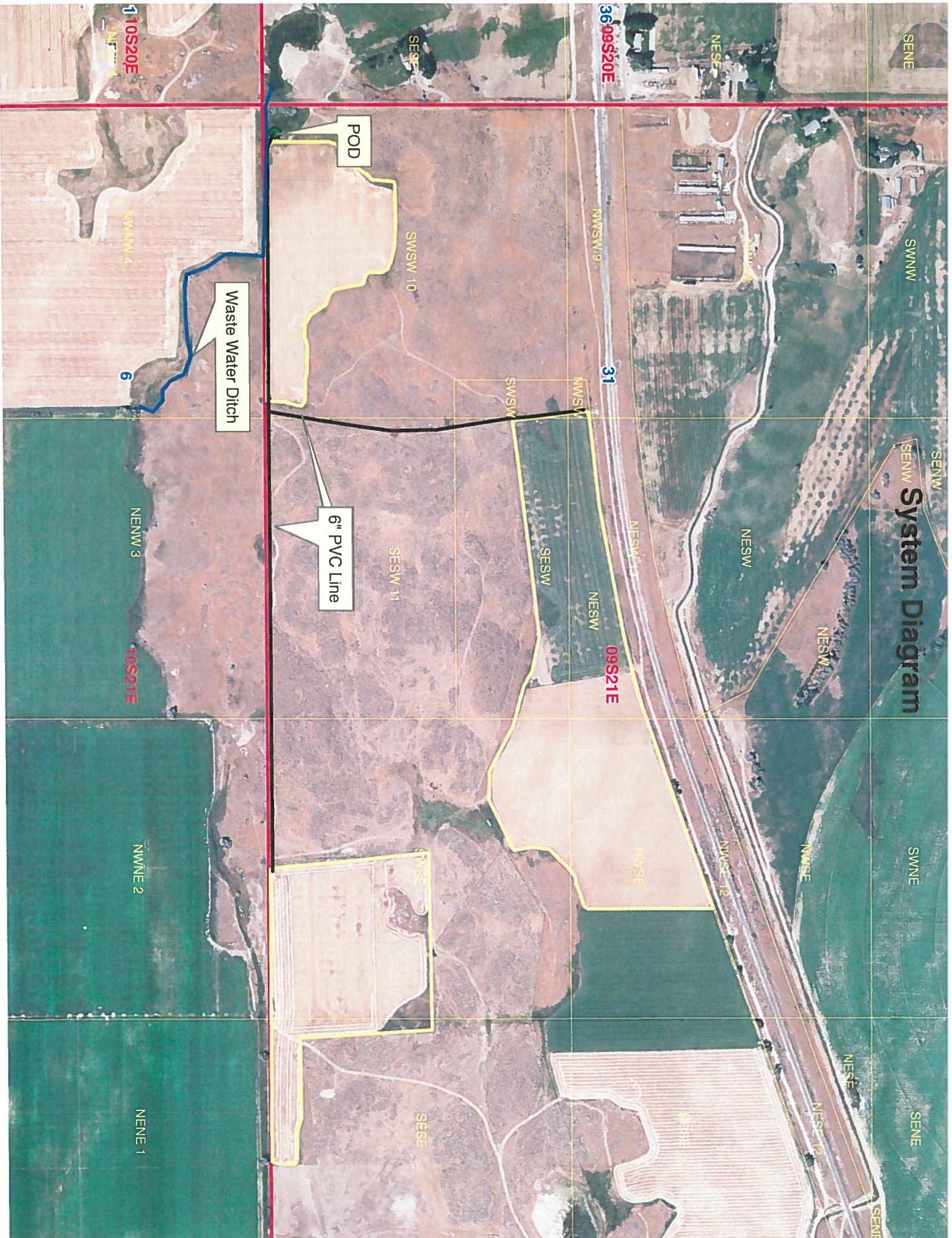


Figure 2: Screen over diversion in pond.



Figure 3: Waste water flowing westward past the Stigile property.

System Diagram



KS

LD02
No. 02
LOG NAME:KS
START :07-17 13:05
END :07-17 13:15
INTERVAL:00:01:00

07-17 13:05:00
+2.087E+0 ft/s
+7.380E+2 gal/m
+TOTAL 0000000 gal
NORMAL

07-17 13:06:00
+2.070E+0 ft/s
+7.321E+2 gal/m
+TOTAL 0000730 gal
NORMAL

07-17 13:07:00
+2.069E+0 ft/s
+7.319E+2 gal/m
+TOTAL 0001471 gal
NORMAL

07-17 13:08:00
+2.111E+0 ft/s
+7.466E+2 gal/m
+TOTAL 0002210 gal
NORMAL

07-17 13:09:00
+2.085E+0 ft/s
+7.376E+2 gal/m
+TOTAL 0002952 gal
NORMAL

07-17 13:10:00
+2.116E+0 ft/s
+7.483E+2 gal/m
+TOTAL 0003695 gal
NORMAL

07-17 13:11:00
+2.136E+0 ft/s
+7.554E+2 gal/m
+TOTAL 0004440 gal
NORMAL

07-17 13:12:00
+2.091E+0 ft/s
+7.394E+2 gal/m
+TOTAL 0005182 gal
NORMAL

07-17 13:13:00
+2.077E+0 ft/s
+7.348E+2 gal/m
+TOTAL 0005922 gal
NORMAL

07-17 13:14:00
+2.092E+0 ft/s

KS

+7.400E+2 gal/m
+TOTAL 0006662 gal
NORMAL

07-17 13:15:00
+2.080E+0 ft/s
+7.356E+2 gal/m
+TOTAL 0007404 gal
NORMAL