

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33266

Exam Date: 10/21/2010

1. Current Owner: THOMAS C SELLIN
1036 IRON EAGLE DR STE 100
EAGLE ID 83616
(208)939-6641

AND/OR

KAREN A SELLIN
1036 IRON EAGLE DR STE 100
EAGLE ID 83616
(208) 939-6641

2. Accompanied by: Tom Sellin & Angie Grimm (IDWR)

Cell No: 870-6673

Address: 4047 N. Ptarmigan Pl., Star, ID 83669

Relationship to Permit Holder: same

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-12527
2. Other water rights with the same point of diversion: 63-12527

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT OF DIVERSION:

GROUND WATER NW1/4SW1/4 Sec. 32, Twp 05N, Rge 01W, B.M., ADA County

Method of Determination: GPS – same as on well log

2.

PLACE OF USE: IRRIGATION

TwpRgeSec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N01W32										2.4							2.4

Total Acres: 2.4

PLACE OF USE: STOCKWATER

TwpRgeSec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N01W32										X							

PLACE OF USE: DOMESTIC

TwpRgeSec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N01W32									X								

Method of Determination: Field Examination & Arc View

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</u>				<u>Pump Serial No. or Discharge</u>		
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Size</u>	
Domestic	Franklin Submersible	3.0	07L18-29-0578	Aqua Duty	20AV15S4PE	
Irrigation	Franklin Submersible	7.5	08J19-23-6163	Pump End	08J19	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>						
<u>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:

No measurement made.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: Theoretical calculations. Known: 34 psi @ sprinkler head during exam, static water level = 192' per well log. Domestic pressure = 40 psi

$$Q = \frac{HP \times 8.814 \times .70}{TDH}$$

$$Dom = \frac{3hp \times 8.814 \times .70}{202 + (2.31 \times 40)} = 0.06 \text{ cfs (when rounded)}$$

$$Irrigation = \frac{7.5hp \times 8.814 \times .70}{202 + (2.31 \times 34)} = 0.16 \text{ cfs}$$

See attached to exam 63-12527

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.4 \times 4.5 = 10.8 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.07 \times 1.9835 \times 260 = 36.1 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 10.8 \text{ afa}$$

2. Volume Calculations for Other Uses:

Domestic = 1 home with little landscape = 1.2 af

Stockwater = 4 head (as permitted) $\times 0.0134 = 0.1 \text{ af}$

G. NARRATIVE/REMARKS/COMMENTS

Property also known as Lot 5, Blk. 1, Chukar Point Subdivision.

Permit holder had sprinklers running at time of exam. It appeared he was watering native grasses but he submitted info to show the land had been tilled and planted. There are 2 pumps in the well. They are both submersible and permit holder had no information. Received pump information from Valley Pump and Equipment. At time of exam he was using 4" mainline with 2" sprinkler lines that were lying on top of fields. He was utilizing a mismatch of sprinkler heads (rainbirds) at time of exam. He plans to have system buried. There is a total of 7.4 acres irrigated. 5 of these are under Permit 63-12527. Two horses present at time of exam. Domestic use is for one home. Xeroxscape system north of house with drip line for plants that need it from domestic pump.

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	03/01 to 11/15	0.070 CFS	10.8 AF
STOCKWATER	01/01 to 12/31	0.010 CFS	0.1 AF
DOMESTIC	01/01 to 12/31	0.040 CFS	1.2 AF
<u>Totals:</u>		0.120 CFS	12.1 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

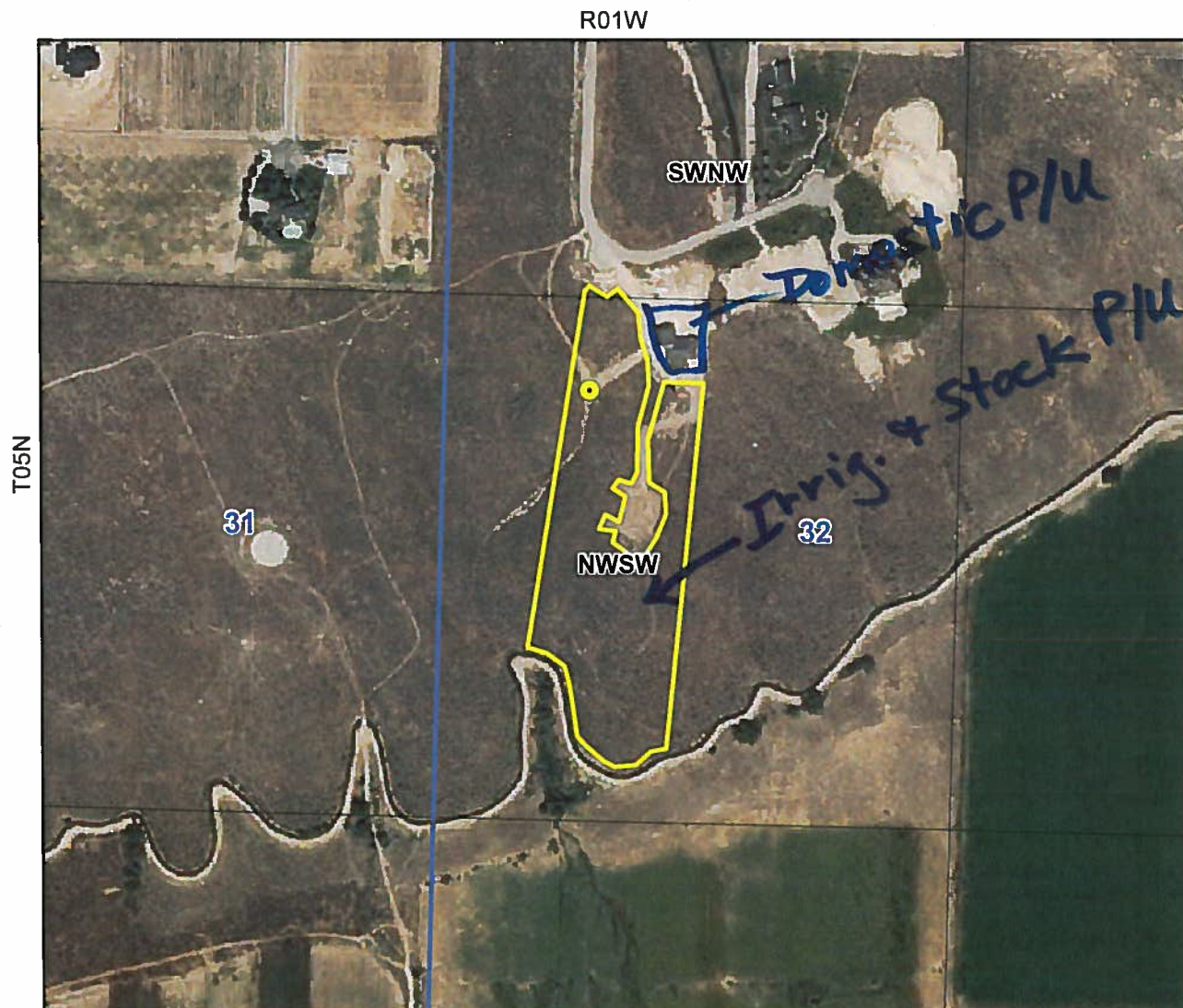
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Kay Walker Date 9/1/2011
 Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
63-33266

Water Service Area Boundary for Thomas C Sellin



0 0.05 0.1 0.2 Miles

Legend

- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

