

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12527

Exam Date: 10/21/2010

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

AND

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. **SOURCE** **TRIBUTARY**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-33266
2. Other water rights with the same point of diversion: 63-33266

C. DIVERSION AND DELIVERY SYSTEM**1. 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									5.0								5.0

Total Acres: 5

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 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

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

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

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

↑
static level = 192' per well log
+ 10' (pump less than 10 hp)
202' for dynamic pumping level

information only -
use covered under
Rt. 63-33266

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5 \times 4.5 = 22.5 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \times 1.9835 \times 260 = 51.6 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 22.5$$

2. Volume Calculations for Other Uses: None – domestic use under 65-33266

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 over the winter

used 13-15 sprinkler heads at a time.

Have conditions of permit approval been met? ☒ Yes ☐ No

Mr. Ray (original permit holder) had leased 60 af of storage water for 10 years in November of 2001. The permit holder will need to obtain more storage water for the 2012 irrigation season. Rt. under this 60 acre feet lease are: 63-12527 and 63-12530 – all others have been lapsed or withdrawn. This right = 5 ac x 3.5 af consumptive use = 17.5 af

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	0.100 CFS	22.5
<u>Totals:</u>		0.100 CFS	22.5

2. Recommended Amendments

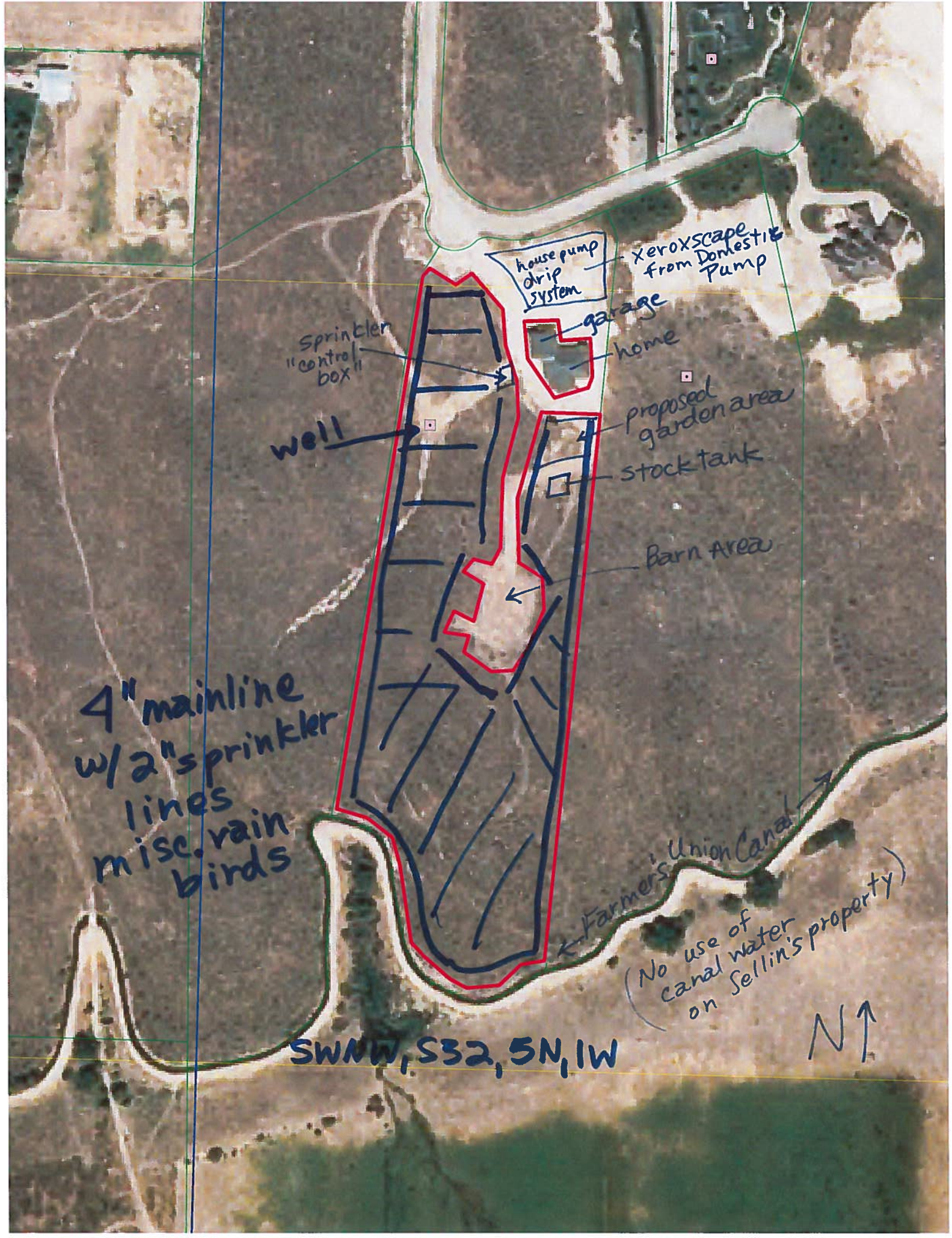
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ 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 _____



house pump
drip
system

xeroxscape
from Domestic
Pump

garage

home

sprinkler
"control
box"

well

proposed
garden area

stock tank

Barn Area

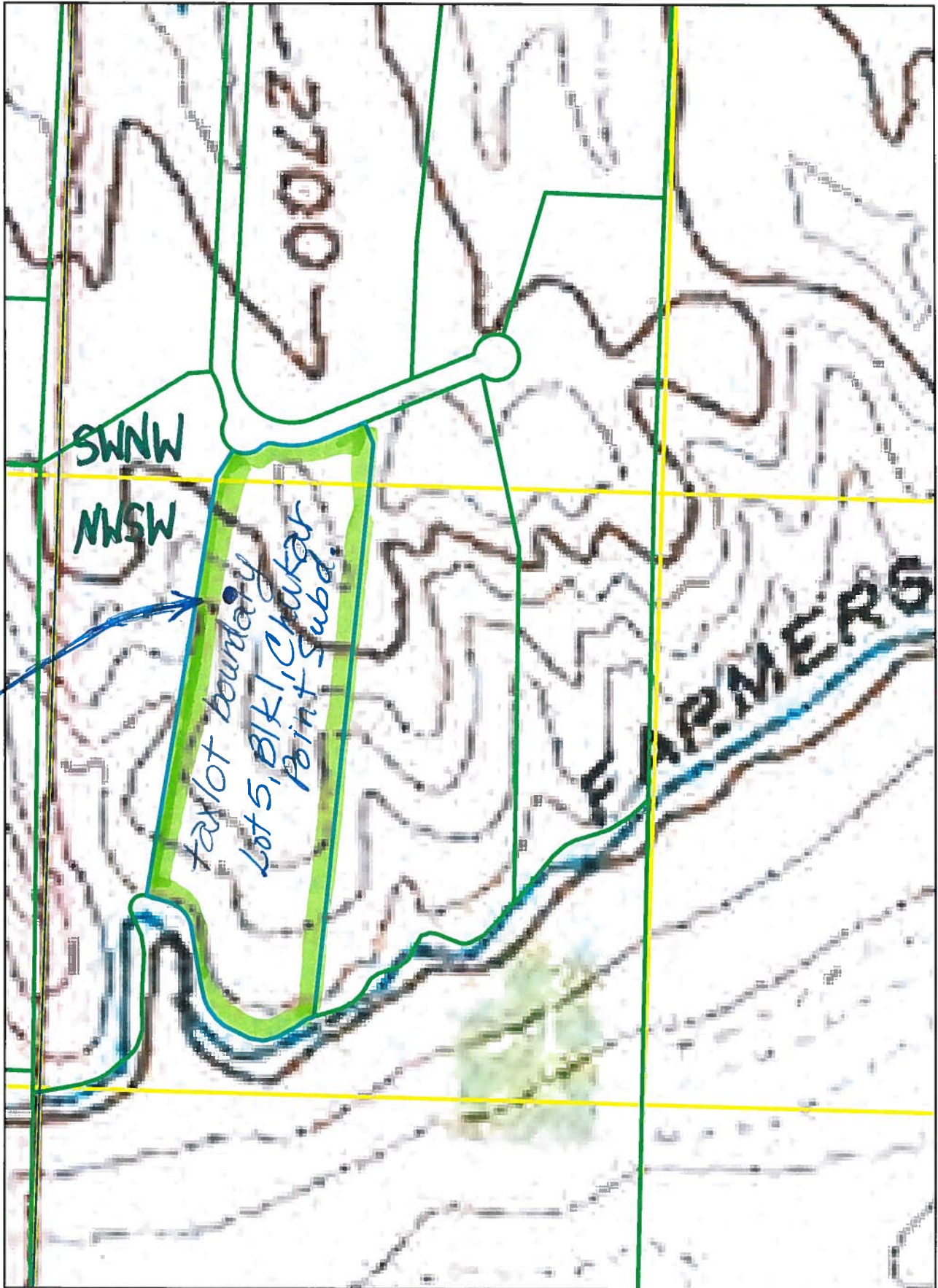
4" mainline
w/ 2" sprinkler
lines
misc. rain
birds

Farmers Union Canal

(No use of
canal water
on Sellin's property)

SWNW, S32, 5N, 1W

N ↑



5N-1W-32

63-12527
63-33266
1010

Field exam Permits 63-12527 and 63-33266
10/21/2010



Picture of Well head – submersible pumps in well



Place of use – note sprinkler lines around edge of “field” – south west edge of property

Field exam Permits 63-12527 and 63-33266
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Place of use runs to fence line in middle of photo – looking west



From barn area – west side of property

Field exam Permits 63-12527 and 63-33266
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Location where permit holder intends to build barn – building there is for horses – barn will be separate. Note house on hill above – domestic use is complete.



Place of use south of barn area – Farmers Union Canal at southern edge of property

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Place of use on south side of barn area



Place of use – east side of barn area



Place of use east side of barn area



Location sprinkler system is currently operated from – Note pressure gage and pipeline



Pressure gage – running at 34 psi (Permit holder had sprinklers running on native grasses)



Water is being used for stock watering – Note stock tank in picture



Drive By
Field Exam 63-12527
August 10, 2011



*pictures showing Sellin property -
not covered w/native growth
any longer.*