

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7241

Exam Date: 7-3-2012

1. Current Owner: ALBERT M SHEPHERD
6331 N OLD HWY 191
MALAD CITY ID 83252
(208)766-4857
2. Accompanied by: Albert Shepherd
Phone No: Same as above
Address: Same as above
Relationship to Permit Holder: Permit holder

3. SOURCE TRIBUTARY

GROUND WATER

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:

GROUND WATER

NW1/4SE1/4

Sec. 24, Twp 13S, Rge 36E, B.M.

ONEIDA County

Method of Determination: Map and GPS

2.

PLACE OF USE: RECREATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
13S	36E	24														X			

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
13S	36E	24									4.0					8.3			12.3

Total Acres: 12.3

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
13S	36E	24															X		

DIVERSION TO STORAGE same as RECREATION STORAGE

Method of Determination: 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>
A0018267		10		Irrigation Pump	
Same well		5		Fish pond Pump	

*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>
Flowmeter	Ultrasonic	Fuji	S10A1-00Y	A0L55371		

2. Measurements: Measured flow from well near wellhead with a Fuji flowmeter.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Fish Pond Pump- 42.87gpm (0.01 cfs) Measured flow
 Irrigation pump- 145.59gpm (0.32 cfs) Measured flow

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 12.3 \text{ acres} \times 3.5 \text{ AF/acre} = 43.05$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.3 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 127.34 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 43.05 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\text{Recreation- } 0.04 \text{ cfs} \times 1.9835 \times 182.5 \text{ days} = 14.5 \text{ AF} \quad (\text{Owner intends to run every other day.})$$

G. NARRATIVE/REMARKS/COMMENTS

The POD consists of a single well with a 10 HP pump for irrigation and a 5 HP pump for the pond. The pond dimensions are 110 x 180 feet with an average depth of 7 feet. Overflow from the pond is used for irrigation in the summer, and flows into New Canyon Creek, which flows through the property, in the winter. Irrigation for the farm ground is carried out by hand lines.

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>
RECREATION	01/01 to 12/31	0.040 CFS	14.50 AF
IRRIGATION	04/01 to 10/31	~~0.300~~ CFS 0.25 cfs	43.10 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.040 CFS	
RECREATION STORAGE	01/01 to 12/31		3.00 AF
<u>Totals:</u>		~~0.300~~ CFS 0.29 cfs	57.60 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 James Bitzenburg

Date 7-3-2012

Reviewer James Cefalo

Date Nov 5, 2012

15-7241

Fish Pond Pump

	4 'VELOCITY	'FLOW RAT	'+TOTALIZE	'RAS
	ft/s	gal/min	gal	
7/3/2012 13:39	4.091	43.5803	194488.1	'00000000000000000000000000000000
7/3/2012 13:40	4.072	43.3768	194531	'00000000000000000000000000000000
7/3/2012 13:41	4.04	43.0417	194574.4	'00000000000000000000000000000000
7/3/2012 13:42	4.042	43.0631	194617.5	'00000000000000000000000000000000
7/3/2012 13:43	4.027	42.9032	194660.7	'00000000000000000000000000000000
7/3/2012 13:44	4.006	42.6734	194703.7	'00000000000000000000000000000000
7/3/2012 13:45	4.022	42.8489	194746.3	'00000000000000000000000000000000
7/3/2012 13:46	4.012	42.7367	194789.1	'00000000000000000000000000000000
7/3/2012 13:47	4.01	42.7163	194831.6	'00000000000000000000000000000000
7/3/2012 13:48	3.999	42.6009	194874.1	'00000000000000000000000000000000
7/3/2012 13:49	3.99	42.5111	194916.8	'00000000000000000000000000000000

42.87gpm ave. for 10 min. run

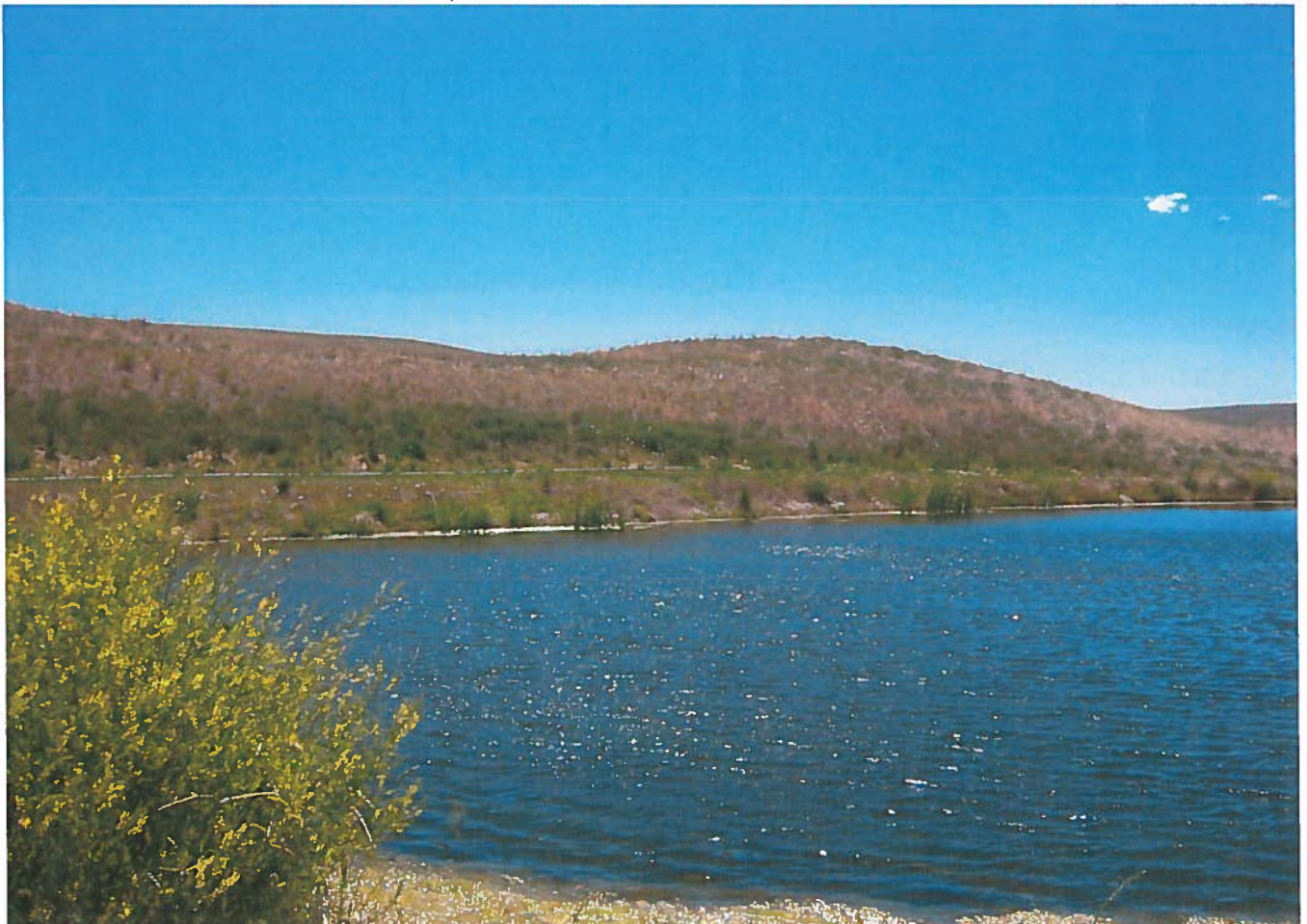
Irrigation pump

ft/s gal/min gal

145.59 ave gpm for 10 min. run



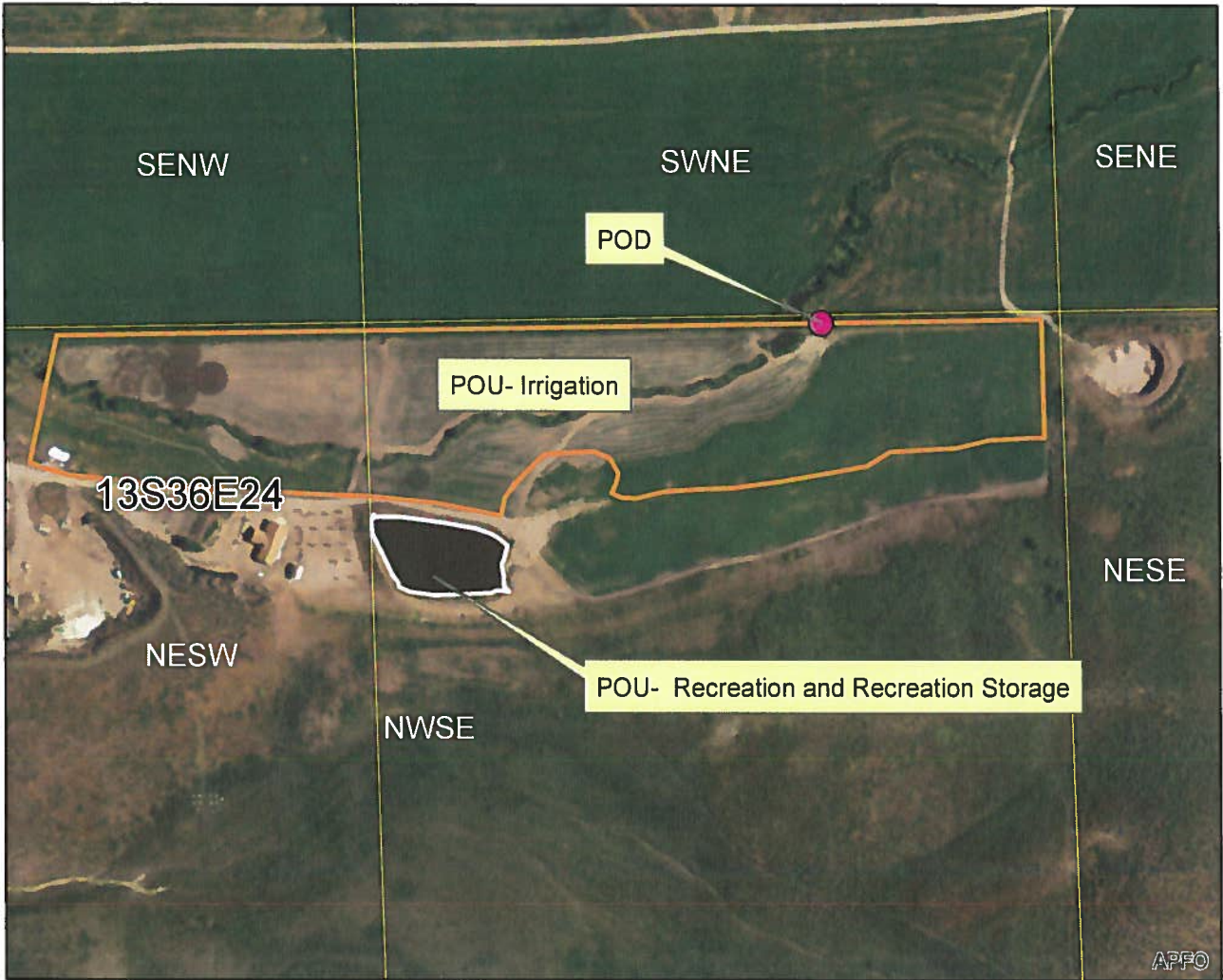
Mr. Shepherds fish pond





Irrigation on hay field

Idaho Department of Water Resources



Shepherd
15-7241

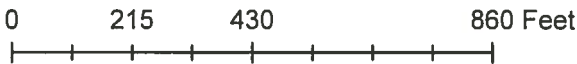


Legend

- 15-7241 Irrigation
- Township/Range
- Sections
- QQ

2011 Aerial Photography

1 inch = 343 feet





well with irrigation pipe



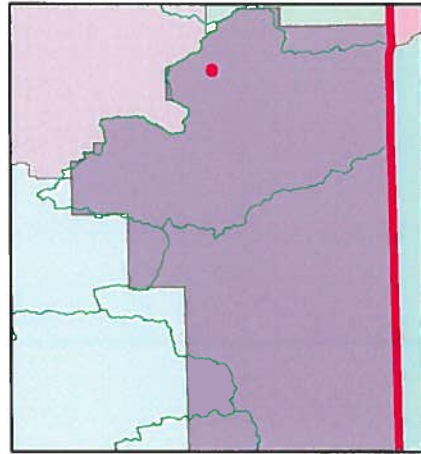
Pump house (Underground) and fish pond plumbing



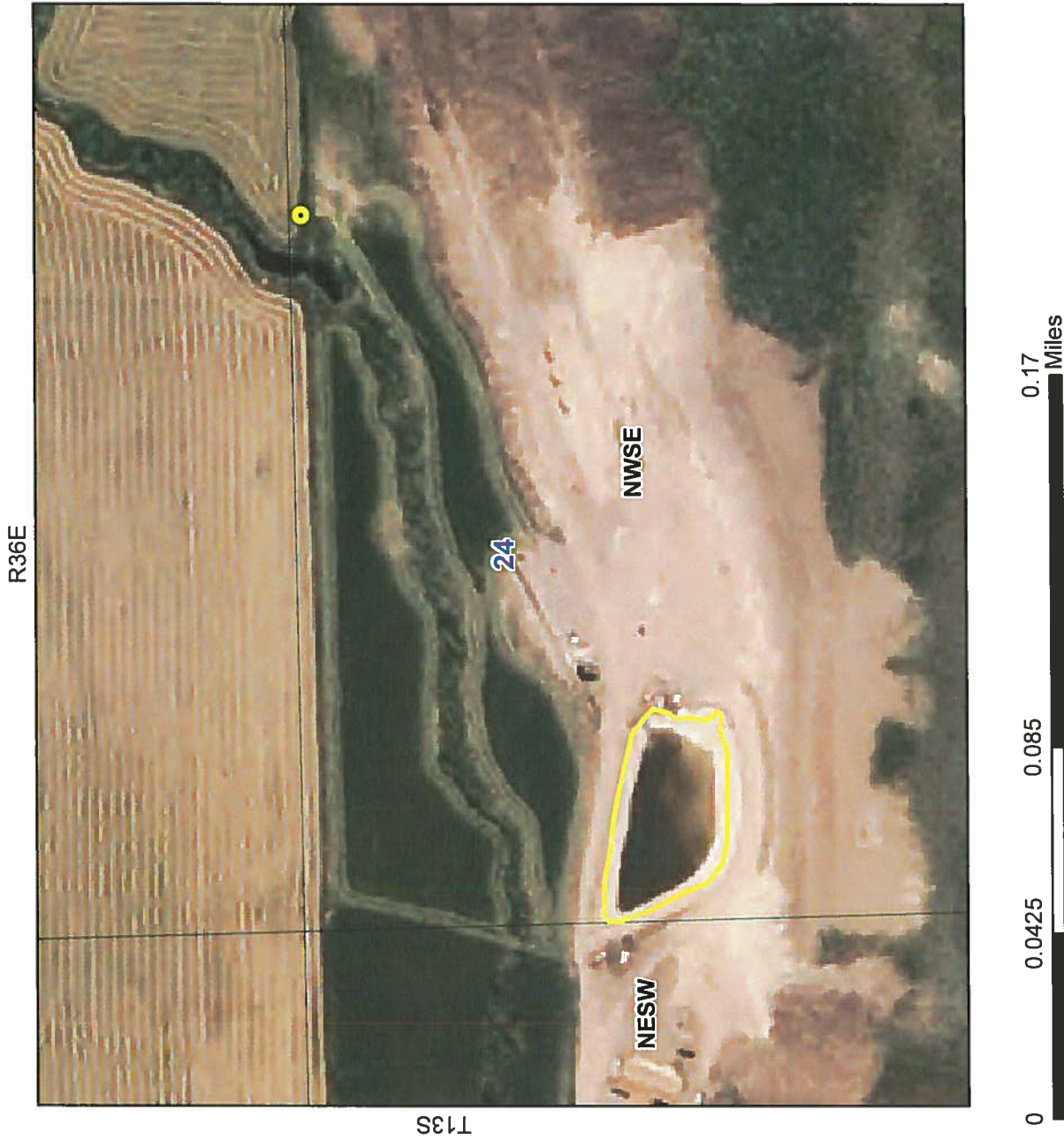
Idaho Department of Water Resources

Water Right
15-7241
(RECREATION)

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Oneida County
IDWR Basin 15
Prepared by Bitzenburg, James
On October 16, 2012
2009 Aerial Photography



Owner: Albert M Shepherd
NOTE: Only one owner is listed. There may or may not be more than this in the IDWR database.

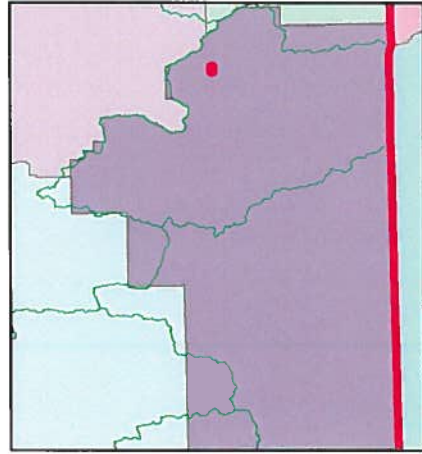


Idaho Department of Water Resources

Water Right
15-7241
(IRRIGATION)

R36E

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Oneida County
IDWR Basin 15
Prepared by Bitzenburg, James
On October 16, 2012
2009 Aerial Photography



0 0.075 0.15 0.3 Miles

Owner: Albert M Shepherd
NOTE: Only one owner is listed. There may or may not be more than this in the IDWR database.