

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 2-10269
Exam Date: 10/22/2007

1. Current Owner: SUNRISE SKY PARK HOMEOWNERS ASSN
11158 AIRPARK LP
MELBA ID 83641-4263
(208)495-2941

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

SNAKE RIVER

TRIBUTARY

COLUMBIA RIVER

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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

SNAKE RIVER L1 NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 16, Twp 01N, Rge 03W, B.M. OWYHEE County

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	
01N	03W	16								.3									.3

Total Acres: 0.3

Method of Determination:

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>
710861	Century AC	1.5	B - 102 - 17	Red Lion	1303

*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>
N/A						

2. Measurements:

Due to system design, no direct measurement method possible

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Theoretical:

$$Q = (8.8 * 1.5 * .70) / ((3 + (2.31 * 44)) = 0.09 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.3) \times (4.5) = 1.4$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.021) \times (259) \times 1.9835 = 10.3$$

* = recommended rate based on lower rate of permit versus theoretical rate of 0.09 cfs

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.4$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

This license is for a very small sprinkler system for a third of an acre on a 3 acre lot. Place of use is the SENW Sec16 T01N R03W on the Owyhee County side of the Snake River near Givens Hot Springs. Point of diversion is a small 1.5hp pump that pulls water directly from the snake. Intake pipe and all pipe connecting system is 1 and one quarter inch pvc line. System is divided into two zones. Zone one has five sprinkler heads and zone two has seven heads. Nozzle size on sprinklers is 1/8 of an inch. Due to design of system no direct measurement could be made on discharge of pump. See theoretical calculations. Last page of this field report is the pump manufacturers specifications on pump used. Model number between pump on specification sheet and model number on pump actually used is different, however phoned manufacturer and was informed output is the same.

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>
IRRIGATION	03/01 to 11/15	0.020 CFS
<u>Totals:</u>		0.020 CFS

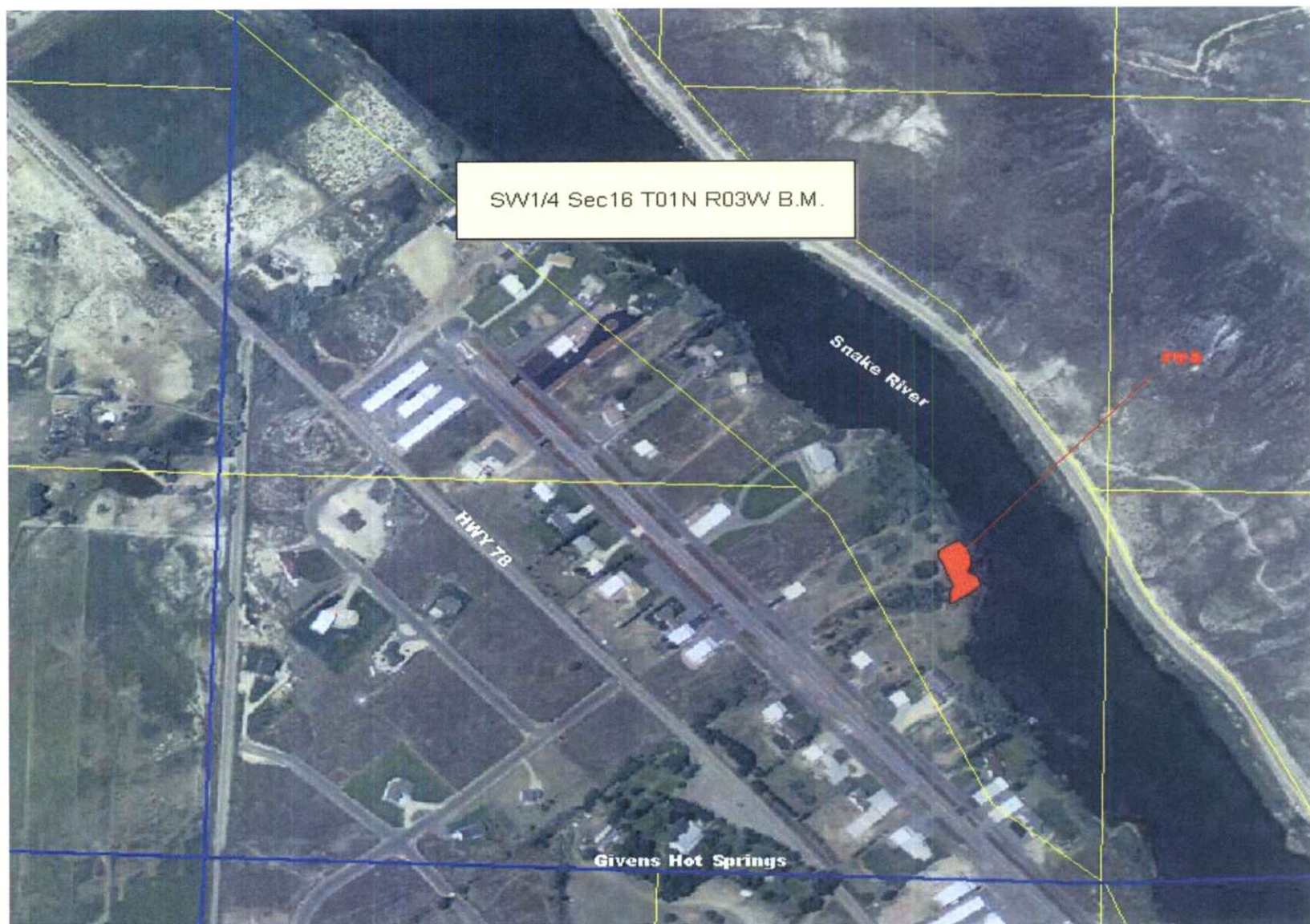
2. Recommended Amendments

☐ 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 Nick Van Dyke Date 10/22/07
 Reviewer Nick Van Dyke Date 12/21/07



Sections
QQ
Pou.shp

0 0.2 Miles





0 0.08 Miles





-Blue line is the intake pipe from the river to pump. Pipe hidden from view by grass.



- This is the pou. The left side of the three combined pictures represents the SE corner of the pou, then looking in a westerly direction spans across the 0.3 acre pou to its NE corner.

Applications:

Ideal for both residential and commercial lawn and turf sprinkling systems.

Features:

- Rugged cast iron casing.
- Cast-in pump base.
- High efficiency thermoplastic impeller and diffuser.
- 2" NPT Suction and 1 1/2" NPT discharge. 2" NPT Suction and discharge on RLHE-300.
- Self priming to 25 feet.
- Maximum pressures to 47 PSI.
- Flow rates to 89 U.S. GPM.
- CSA approved.
- RLSP Series can be set for use with 115V or 230V.
- 1 Year over-the-counter warranty.



RLSP

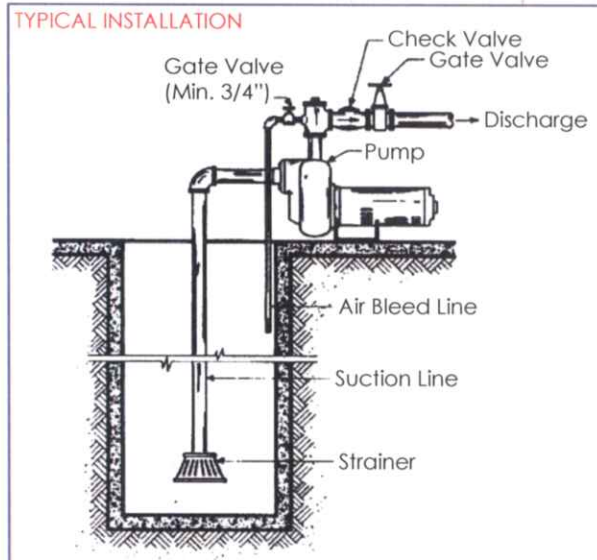
Performance Table

Model No.	HP	Discharge Pressure in PSI at 5 ft. Lift								Max. PSI
		10	20	30	40	45	50	55		
		Pump Capacity in U.S. GPM								
RLSP-75	3/4	58	46	29	7	-	-	-	39	
RLSP-100	1	63	54	38	11	-	-	-	43	
RLSP-150	1 1/2	71	60	44	15	-	-	-	44	
RLSP-200	2	89	75	60	36	-	-	-	48	
RLHE-300	3	124	110	95	77	67	54	36	59	



Model No.	Order No.	UPC	HP	Voltage	Ship Wt. (lbs.)	Length	Width	Height	Carton Cubes (cu. ft.)
RLSP-75	614670	085635-14670-5	3/4	115/230	54	19.9"	9.25"	10.6"	1.13
RLSP-100	614671	085635-14671-2	1	115/230	57	19.9"	9.25"	10.6"	1.13
RLSP-150	614672	085635-14672-9	1 1/2	115/230	60	19.9"	9.25"	10.6"	1.13
RLSP-200	614673	085635-14673-6	2	115/230	63	19.9"	9.25"	10.6"	1.13
RLHE-300	614481	085635-14481-7	3	230	134	26.5"	13.5"	15"	2.88

* RLSP Repair Kit Listing On Page 21



RLHE-300
* Cast iron diffuser