

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-7356

Exam Date: 7/14/2009

1. Current Owner: SIMPCO LANDS OF CA LTD PARTNERSHIP
C/O LARRY SIMONSON
PO BOX 1199
RIGGINS ID 83549
(208)628-3295
2. Accompanied by: Larry Simonson
Phone No: 208/628-3295
Address: larry@mountainlakesrealty.com
Relationship to Permit Holder: Registered agent for Simpco (registered in the state of CA)

3. SOURCE TRIBUTARY
LITTLE SALMON RIVER SALMON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 78-7357 (stockwater from Little Salmon), 78-7363 (groundwater for irrigation of 15 acres and stockwater/full overlap), 78-12334 and 78-12335 (stockwater from springs)
2. Other water rights with the same point of diversion: 78-7357

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:LITTLE SALMON RIVER NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 29, Twp 23N, Rge 01E, B.M. IDAHO County

Method of Determination: Site visit

2.

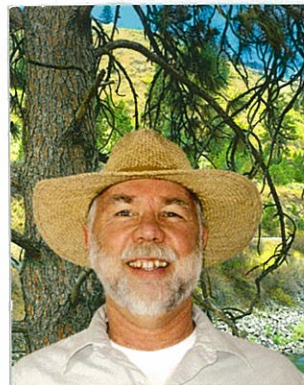
PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
23N 01E 29															12.0	3.0	15.0

Total Acres: 15

Method of Determination: site visit

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



Larry Simonson
SALES ASSOCIATE

Riggins Office: (208) 628-9236
McCall Office: (208) 634-2728
Fax: (208) 628-9241
Home: (208) 628-3295
Larry@MountainLakesRealty.com

MOUNTAIN LAKES REALTY
419 N Main, P.O. Box 407
Riggins, ID 83549

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>
None	Baldor	7.5	see photo	Model 1.5 wh 7.5-1-2 SBL 358A-A00	Serial 155517.6.56

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>
Pitot tube	psi gauge

2. Measurements: Measurements were taken at 4 out of the 20 sprinkler heads. Sprinkler heads have 5/32 nozzles and are Aqua Burst Model HF 30. At each sprinkler measured, the pressure was 50 psi. The Aqua Burst Performance chart shows the output at 50 psi as 4.9 gpm. 4.9 gpm x 20 sprinklers = 98 gpm total or 0.22 cfs

E. FLOW CALCULATIONS

___x___ Additional Computation Sheets Attached
(see spec sheet for sprinkler)

Measured Method:

Since the information was available to do a hp equation to determine pump capacity, I will include that in this report as a way of verifying the physical measurement and corresponding rate. Note that I used the standard efficiency rating of 70% in the equation.

hp = 7.5
Lift = 98'
psi = 50

$$\frac{8.8 \times 0.7 \times 7.5}{98' + (2.31 \times 50)} = \frac{46.2}{213.5} = 0.22 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 15 \text{ acres} \times 4 \text{ af} = 60 \text{ acre feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.22 \text{ cfs} \times 294 \times 1.9835 = 128.3 \text{ acre feet}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 60 \text{ af}$$

2. Volume Calculations for Other Uses: na

G. NARRATIVE/REMARKS/COMMENTS

The applicant has complied with the fish screening condition per Steve Lester's 6/18/09 memo. The system irrigates roughly 3 acres at one time and gets rotated around on a weekly/monthly basis. The land that is irrigated is used for grazing grounds. At the time of the field exam no stock were on site however, it is apparent by the presence of stock troughs that beneficial use has taken place.

The permit was conditioned to be supplemental to groundwater right 78-7363 however upon the field inspection it was found that the groundwater is used only around the cabin to the North of the house and that this right primarily irrigates the 15 acres. Larry stated that the cost of pumping from the well was too high and that using the surface water right made more sense. The supplemental condition on the permit simply stated "This right is supplemental to ground water right 78-7363" and did not include specific language about what "supplemental" means or how this affects the development of the water right. Therefore, the department cannot enforce the condition, instead the department will add a combined use condition to the license.

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	02/15 to 11/30	0.220 CFS	60 AF
	<u>Totals:</u>	0.220 CFS	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 Cherie Padilla Date of exam 7/14/09

Reviewer _____ Date _____

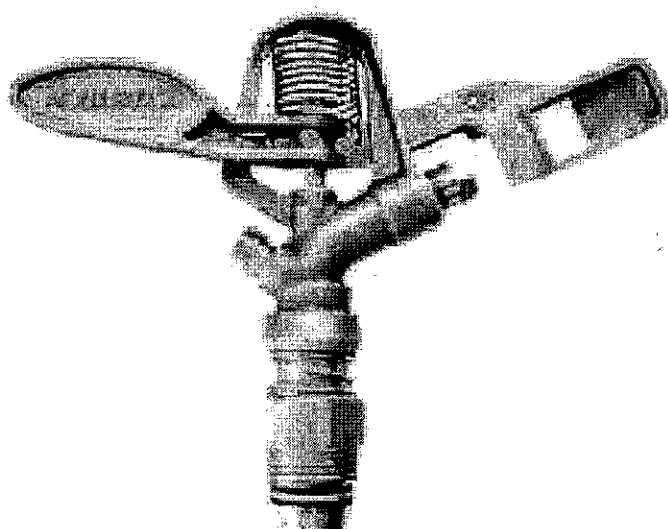
BAFSCO

B.A. FISCHER SALES CO., INC.

2178 Centurion Place • Boise, Idaho 83709 • 888.375.1411 • 208.375.1411 • Fax: 208.375.8022 • E-mail: bafscos@mindspring.com

3/4" BRASS IMPACT SPRINKLER

Effective 1/1/09



3/4" Full-Circle Brass Impact

Full-circle impact - 25° trajectory

3/4" male N.P.T.

Single (HF30) or dual nozzle (HF30D)

(Fits 3/4" size nozzle DN-3 series)

Sprinkler Head Does Not Include Nozzle

Cast brass drive arm with I-Beam construction and improved balance and durability

Cast brass body with triple bridge construction and cored water passage

Efficient at both high and low operating pressures

Seal-Lock bearing creates a captive seal

Spindle with debris journal to slow bearing wear

Stainless steel fulcrum pin, arm spring and bearing spring for long wearing reliability

Ideal for hand line, wheel line, solid set and a wide-range of other applications

HF30	(single)
HF30-C	(single w/chrome bearing)
HF30D	(dual)
HF30D-C	(dual w/chrome bearing)

60/case

List
\$ 19.20
\$ 19.62
\$ 20.40
\$ 20.82

AQUA BURST® Performance Chart

Normal Stream Height At 9' Above Nozzle at Normal Pressure

Single Nozzle
Diameter - GPM

Dual Nozzle
Diameter - GPM

PSI	1/8" nozzle	9/64" nozzle	5/32" nozzle	11/64" nozzle	3/16" nozzle
25	77 - 2.1	80 - 2.8	82 - 3.5	86 - 4.3	88 - 5.1
30	78 - 2.2	81 - 3.0	84 - 3.8	87 - 4.6	89 - 5.5
35	79 - 2.4	82 - 3.3	86 - 4.1	89 - 5.1	91 - 5.9
40	81 - 2.6	83 - 3.5	87 - 4.5	91 - 5.3	93 - 6.4
45	82 - 2.9	84 - 3.7	88 - 4.7	92 - 5.7	94 - 6.7
50	83 - 3.1	85 - 4.0	89 - 4.9	94 - 6.1	96 - 7.2
55	84 - 3.3	86 - 4.3	90 - 5.1	96 - 6.4	97 - 7.5
60	85 - 3.5	87 - 4.5	92 - 5.4	97 - 6.7	99 - 7.8
65	86 - 3.7	88 - 4.7	93 - 5.7	98 - 7.0	100 - 8.1
70	87 - 3.9	89 - 4.8	94 - 5.9	99 - 7.2	102 - 8.4
75	88 - 4.0	90 - 5.0	95 - 6.2	100 - 7.5	103 - 8.6
80	89 - 4.2	91 - 5.1	96 - 6.4	101 - 7.7	105 - 9.0

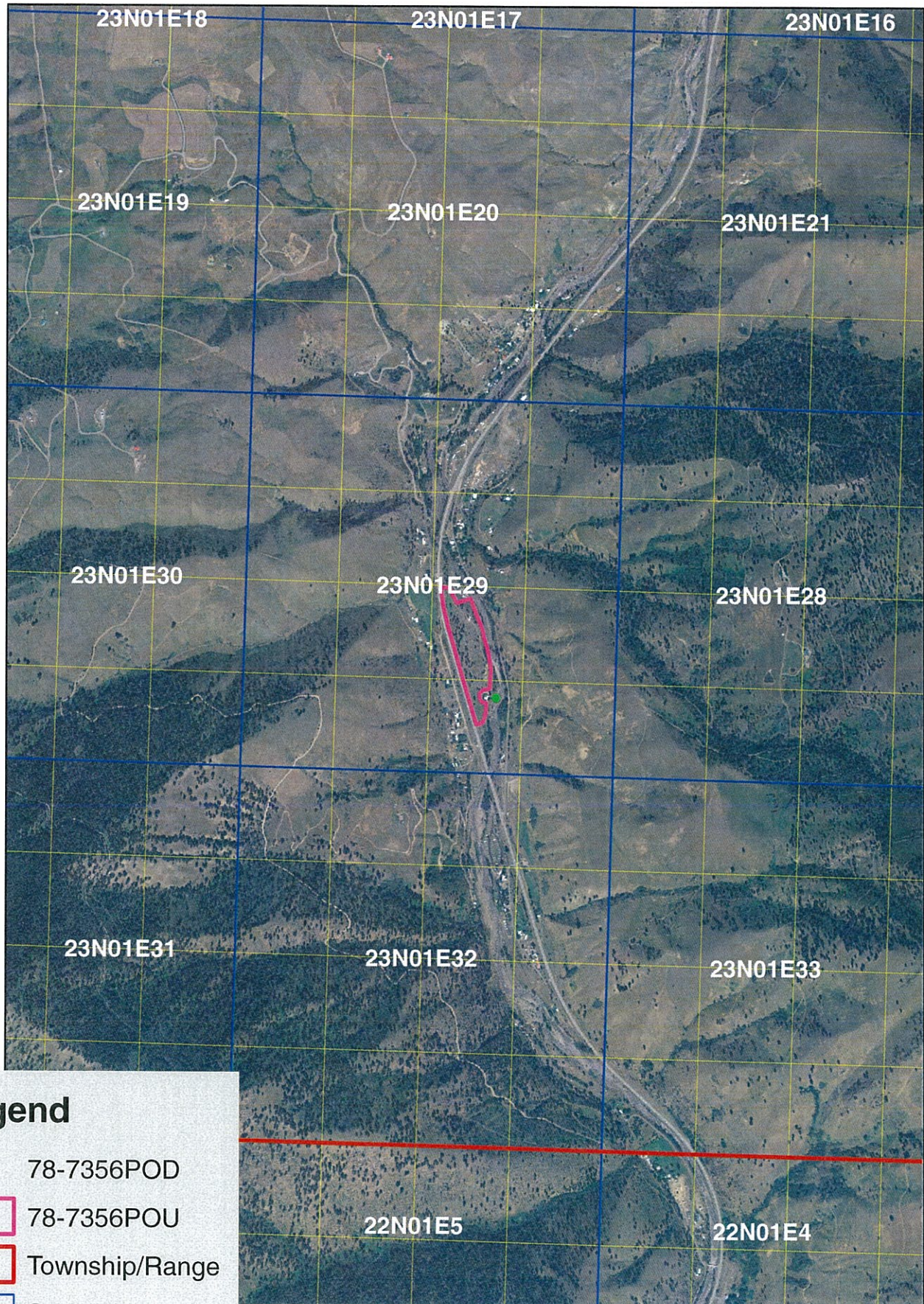
PSI	1/8"x3/32" nozzles	9/64"x3/32" nozzles	5/32"x3/32" nozzles	11/64"x3/32" nozzles	3/16"x3/32" nozzles
25	78 - 3.5	80 - 4.1	82 - 4.8	85 - 5.6	86 - 6.5
30	79 - 3.8	81 - 4.4	85 - 5.3	87 - 6.0	88 - 7.0
35	80 - 4.1	82 - 4.8	87 - 4.7	89 - 6.4	92 - 7.4
40	81 - 4.4	83 - 5.2	88 - 6.1	91 - 7.0	95 - 8.0
45	82 - 4.6	84 - 5.5	89 - 6.5	92 - 7.5	97 - 8.6
50	83 - 4.9	85 - 5.8	90 - 6.8	94 - 7.9	99 - 9.1
55	84 - 5.2	86 - 6.1	91 - 7.1	96 - 8.3	100 - 9.5
60	85 - 5.4	87 - 6.3	92 - 7.4	97 - 8.7	101 - 9.8
65	86 - 5.7	88 - 6.6	93 - 7.8	98 - 9.0	102 - 10.3
70	86 - 5.9	89 - 6.9	94 - 8.1	99 - 9.4	104 - 10.6
75	87 - 6.2	90 - 7.1	95 - 8.3	100 - 9.7	105 - 11.1
80	87 - 6.4	91 - 7.4	96 - 8.7	101 - 10.0	105 - 11.4

- 6 -
All Prices Subject To Change Without Notice



This drawing illustrates the system diagram as set up on the day of the field exam. The sprinkler lines are repositioned weekly. See the place of use map for the remaining irrigated area.

Water Right 78-7356



Legend

- 78-7356POD
- 78-7356POU
- Township/Range
- Sections
- QQ

NAIP 2004 Imagery



Water Right 78-7356



Legend

- 78-7356POD
- 78-7356POU
- QQ



Field Exam Photos for 78-7356 taken 7/14/2009
Field Examiner Cherie Padilla



← Cabin

Picture taken facing
North
Field is w/i
the POV



← Little Salmon

Pump

Field Exam Photos for 78-7356 taken 7/14/2009
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Diversion Works



Picture taken facing SW

POV is within fenced area

Field Exam Photos for 78-7356 taken 7/14/2009

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Field Exam Photos for 78-7356 taken 7/14/2009

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Point of
diversion



Fish screen

Field Exam Photos for 78-7356 taken 7/14/2009
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diversion works

Field Exam Photos for 78-7356 taken 7/14/2009
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Aqua Burst
HF 30
5/32 nozzle



POV
Picture taken
facing NW

Field Exam Photos for 78-7356 taken 7/14/2009

Field Examiner Cherie Padilla



POV is within
fenced area

Picture taken
facing NW

Field Exam Photos for 78-7356 taken 7/14/2009
Field Examiner Cherie Padilla



Hose from
Little Salmon
to pump

Field Exam Photos for 78-7356 taken 7/14/2009
Field Examiner Cherie Padilla



POV
Picture taken
facing North



POV
Picture taken
facing North