

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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DEPARTMENT OF
WATER RESOURCES

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 13-7596

1. Owner Barbara J. Senter or Robert W. Timmons - See Attachment A.1 Phone No. _____
Current address _____
2. Examiner's name Paul H. Scoresby, PE EXAM DATE August 23, 2012
3. Accompanied by Barbara J. Senter Email info@maplegrovehotsprings.com
Address 11386 N. Oneida Narrows Road, Thatcher, Idaho 83283
Relationship to permit holder Barbara is the permit holder Phone No. 208-339-5832 (C)
4. Source Maple Grove Hot Springs tributary to Bear River

B. OVERLAP REVIEW

1. Other water rights with the same place of use 13-4347, 13-7135, 13-7577
2. Other water rights with the same source and point of diversion 13-7577

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
	NA		SW	NE	7	13S	41E	Franklin	IDWR Website/GIS/On Site Inspection

2. Place(s) of Use: Method of determination IDWR Website/GIS/On Site Inspection

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13S	41E	7			X														

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Maple Grove Hot Spring	NA	NA	NA	NA	NA

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Mechanical Flowmeter	Propeller	McCromet	M0306	12-08338-06	6 in.	9/13/12

2. **Measurements:** _____

The make is McCrometer. This flow meter is a saddle type held in place with metal straps around the pipe.

Measurement of the flow was made by physically reading the gallon per minute mechanically driven indicator.

E. NARRATIVE/REMARKS/COMMENTS

The purpose of this water right is to make naturally occurring Maple Grove Hot Springs water available for public enjoyment in constructed hot tubs and a pool. The hot tubs and pool are fed from naturally occurring hot springs located on the property. The Maple Grove Hot Springs consist of visible hot water bubbling up within a pond and water bubbling to the surface around the east end of the same pond and then flowing into the pond. The Maple Grove Hot Springs actually consists of several springs. The hot springs have varied water temperatures as high as 177 deg. F and as low as 110 deg. F. The hot spring pond is 140 deg. F. The hot springs and pond are fenced for safety. The hot spring water is diverted in a six inch plastic pipe and gravity flows to fill the hot tubs and pool. The hot spring water is not mixed with any other water source to achieve proper temperature for bathing. Rather, the owners have constructed a series of pipe coils just off shore in the Oneida Narrows Reservoir that are used to cool the hot spring water. The elevation head difference from the hot spring pond to the hot pool and hot tubs allows for flow-back from the coils into the hot tubs and pool. The cooled hot spring water is then mixed with uncooled hot spring water to achieve optimum temperature for soaking and bathing. The hot spring water is constantly diverted and flows through the pool and hot tubs en-route to its natural destination of the Bear River. The hot tubs and pool are periodically bypassed one at a time for cleaning. Each are fitted with a drain that empties into the Oneida Narrows Reservoir. With the diversion valve, the entire diverted stream can be periodically shut off for maintenance and cleaning of the diversion pipe. Under these conditions, the hot spring overflows directly into the Oneida Narrows Reservoir in a natural bypass channel exiting the hot spring pond. Excessive hot spring production not diverted for beneficial use also overflows direct from the hot spring pond to the Oneida Narrows Reservoir.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

Water Right Number 13-7576, Attachment A.1 – Owners

Robert W. Timmons
74 East Valley View Drive
Preston, Idaho 83263

Phone: 208-851-1138

Barbara J. Senter
11386 N. Oneida Narrows Road
Thatcher, Idaho 83283

Phone: 208-851-1137 (W)
208-339-5832 (C)

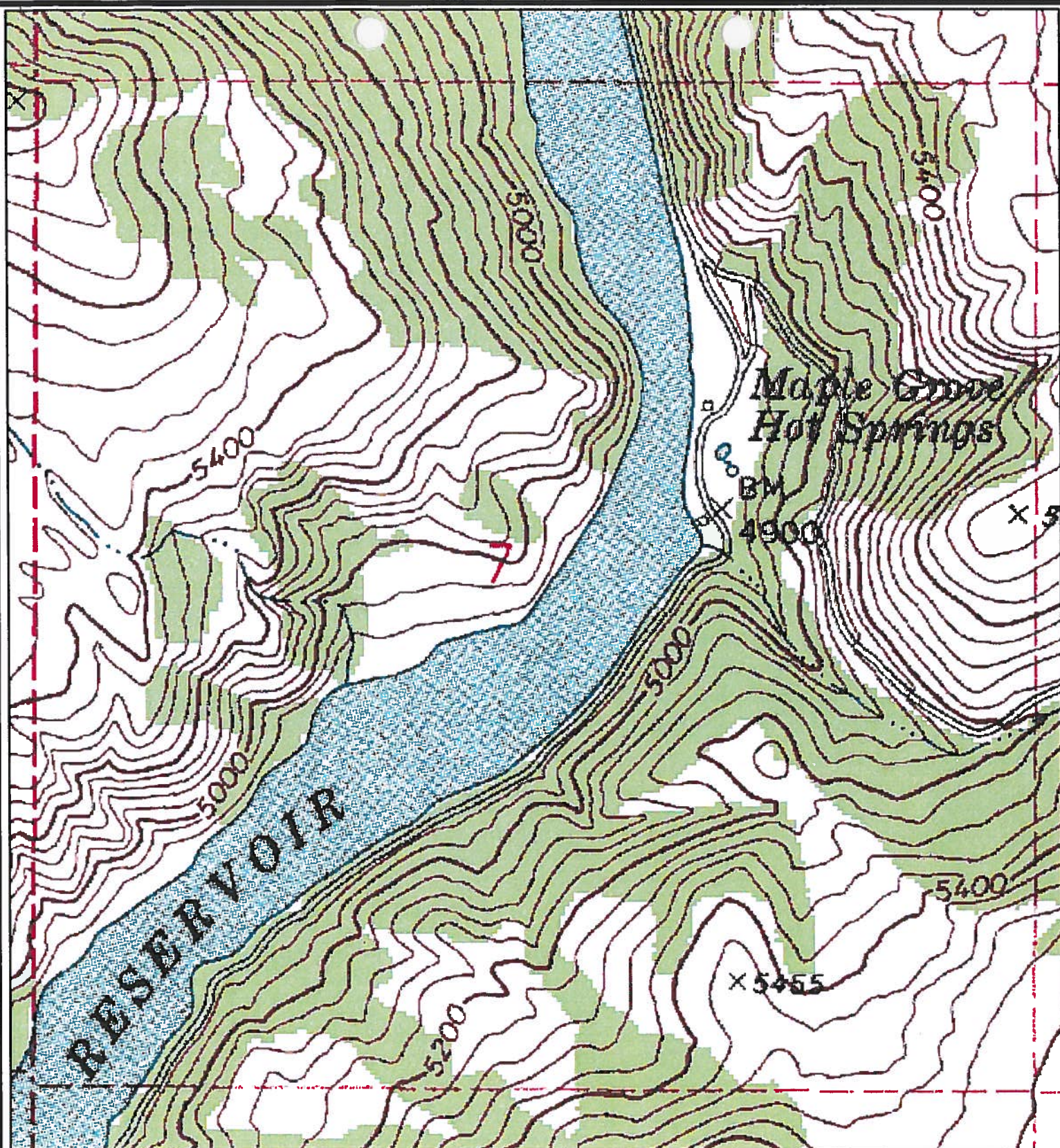
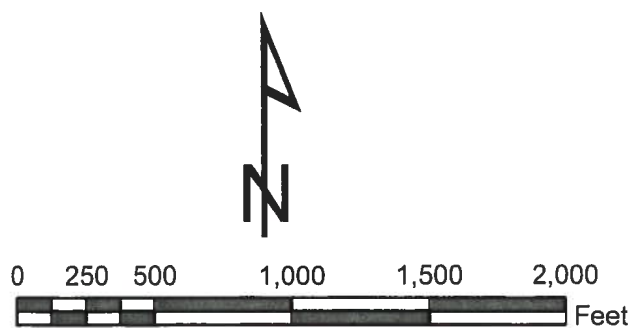


Exhibit C.3
USGS Quad Map





0 87.5 175 350 525 700
Feet

Exhibit C.3 Aerial Photo



Overall view of resort area. Hot springs are to the left (east) of the photo. The pool is beneath the cloth canopy in front of the building. The smaller hot tub-type pools are in the grassy area near the big shade trees at the center right of the photo. The Oneida Narrows Reservoir on the Bear River is in the background on the right of the photo.



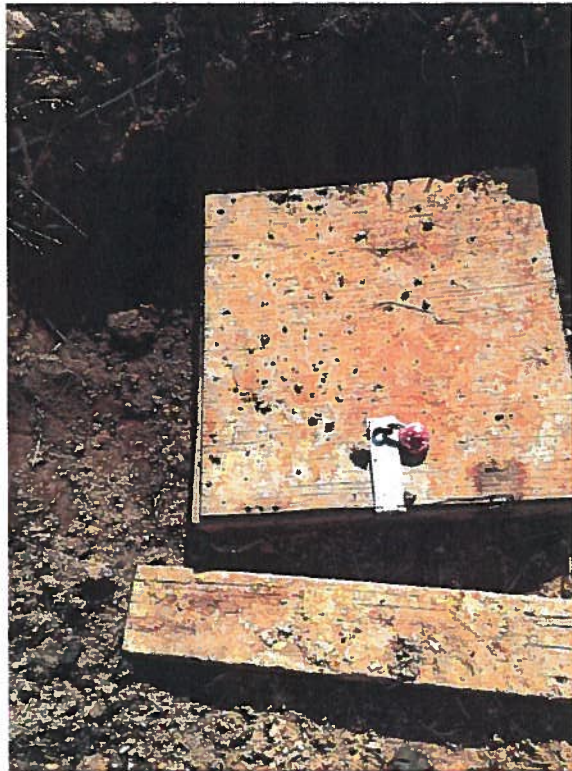
East side of hot spring pond with hot springs flowing into the pond in the background.



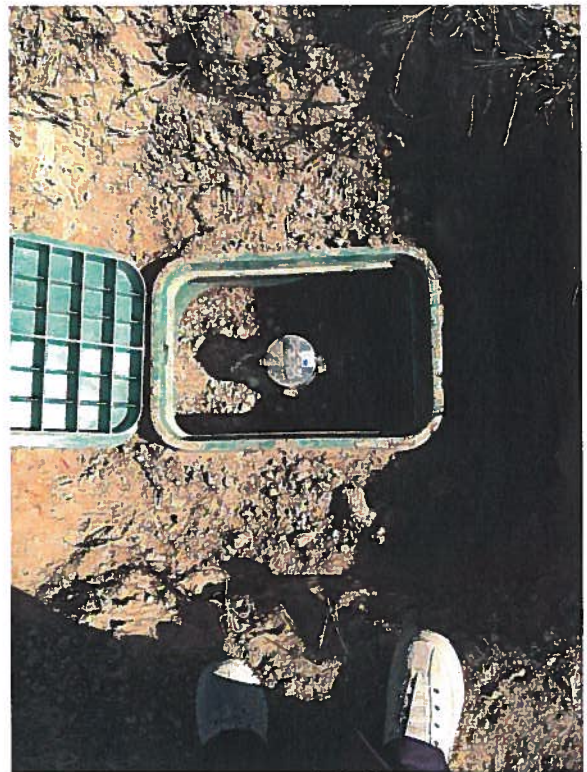
West side of hot spring pond with Oneida Narrows Reservoir in background. The valve box feeding the diversion pipe is shown at bottom right.



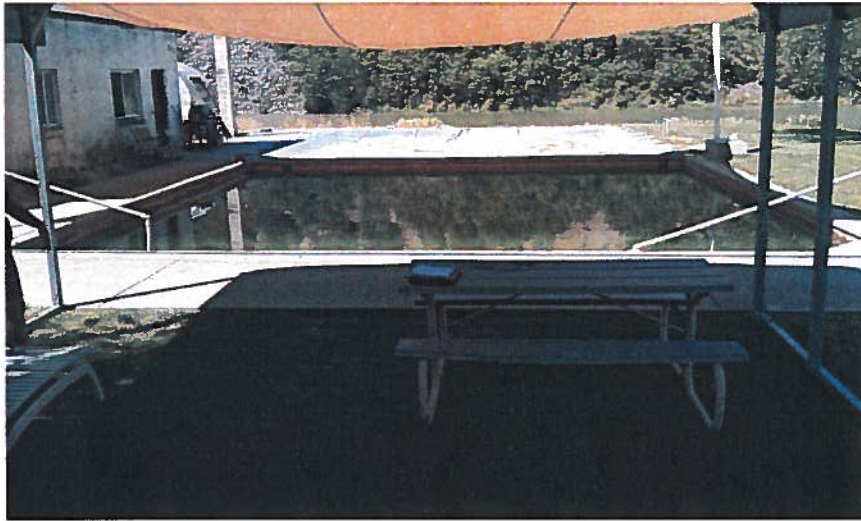
Diversion valve with box.



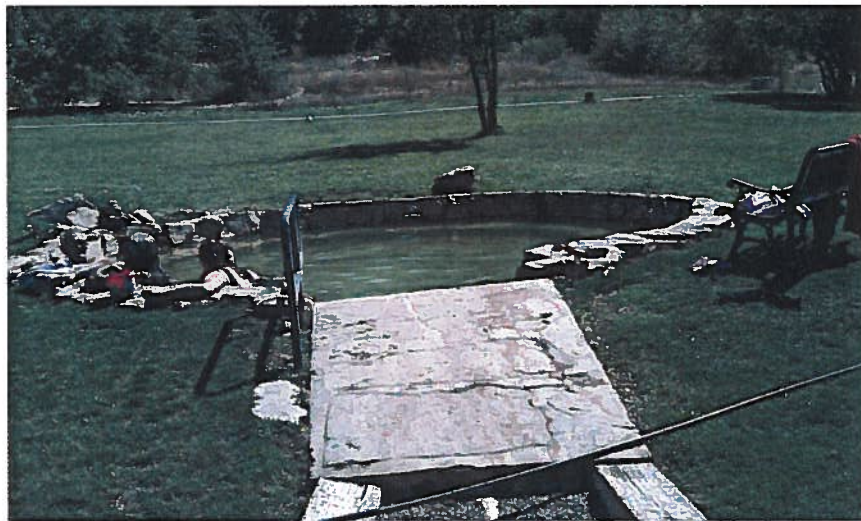
Diversion box with newly installed lockable closure.



Flowmeter in box downstream of valve box.



Hot pool under cloth canopy.



Hot Tub #1



Hot Tub #2



Hot Tub #3



Discharge back into the river



Cooling pipe coils

Water Right Number 13-7576, Exhibit C.3 - Photographs



Hot spring pond overflow direct to Oneida Narrows Reservoir



A close up view of hot springs adjacent to and east of the hot springs pond.

F. FLOW CALCULATIONS

☐ Additional computation sheets attached

Measured Method:

Direct read of propeller type flow meter mechanical indicator. Indicator read 360 gpm or 0.800 CFS.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\text{NA}}$$
$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\text{NA}}$$
$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \text{NA}$$

2. Volume Calculations for Other Uses:

$$360 \text{ gpm}/448.8 \text{ gpm/cfs} = (0.8021 \text{ cfs})(1.9835)(365 \text{ days}) = 580.7 \text{ afa}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From Jan. 1	To Dec. 31		
Recreational			0.800	580.7 afa
		Totals:	0.800	580.7 AFA

2. Recommended Amendments

- | | | |
|---|--|--|
| ☐ Change P.D. as reflected on page 1 | ☐ Add P.D. as reflected on page 1 | ☒ None |
| ☐ Change P.U. as reflected on page 1 | ☐ Add P.U. as reflected on page 1 | ☐ Other |

I. AUTHENTICATION

Field Examiner's Signature [Signature]

Date 11-13-12

Reviewer

Date 11-17-12