

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-16808
Exam Date: 02/05/2025

1. Current Owner:
M H SPRINGS LLC PO BOX 588 BUHL ID 83316-0588
2. Accompanied by: In-house with Enoch Olsen & Calem Olsen
Phone No: (208) 543-6002
Address: Same as above
Relationship to permit Holder: Business Owners

3. **SOURCE:**
GROUND WATER

Method of Determination: Verified by owners & 47-7829 Field exam performed by Jim Stanton on 6/5/2002

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
47-2242	Ground Water; Springs	Stockwater/Heating	Decreed
47-4296	Unnamed Spring	Irrigation	Decreed
47-7829	Ground Water	Commercial; Heating; Aesthetic; Recreation & Domestic	License

Comments: 47-7829 will be recommended for licensing with this water right

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
47-2242	Ground Water; Springs	Stockwater/Heating	Decreed
47-7829	Ground Water	Commercial; Heating; Aesthetic; Recreation & Domestic	License

Comments:

C. DIVERSION AND DELIVERY SYSTEM

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

GROUND WATER SE¼ NW¼ NE¼, Sec. 31, Twp 08S, Rge 14E, B.M. TWIN FALLS County

Method of Determination: On-site inspection by Jim Stanton on 6/5/2002

PLACE OF USE: HEATING

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08S	14E	31	X	X															

Method of Determination: Verified by owners & 47-7829 Field exam performed by Jim Stanton on 6/5/2002

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X 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.

XX Aerial Photo Attached (required for irrigation of 10+ acres).X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0003170	Baldor	7.5	F0103023005	Berkeley	B3ZP1S

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Ultrasonic	Portaflow	Fuji	FLCS011			

2. Measurements: Measured by Jim Stanton on 6/5/2002 for beneficial use field exam for water right 47-7829;
4482 gallons/12 minutes = 373.5 gpm = **0.83 cfs**

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: Heating:

$$0.20 \text{ cfs (rate applied for on application for permit)} \times 365 \times 1.9835 = \mathbf{144.8 \text{ af}}$$

G. NARRATIVE/REMARKS/COMMENTS

The measurement used for this field exam was done by Jim Stanton on 6/5/2002 during the field exam for water right 47-7829 for the same well this water right is diverted from.

On 1/30/2025, Corey Skinner and I met with Enoch & Calem Olsen (current owners), to discuss this and permit 47-7829, hoping to find a path forward for licensing both permits. After the meeting, it appeared that we had sufficient information and justification to license both permits.

On 2/5/2025 I visited the facility to complete this field exam.

A memo from 2/26/2023 written by D. Gibson, indicates that this permit was filed for additional heating use for a new pipeline to heat new greenhouses and possibly other structures and then return the water into the system. The memo also indicated that it would not increase the diversion rate and the right would be non-consumptive.

Aerial imagery does show a couple of greenhouses that have been constructed in recent years in the NWNE. Water right 47-7829 covers a number of beneficial uses in the NWNE, including heating but it does not authorize any uses in the portion of the property located in the NENE. The heated restrooms for the campground are located in both the NWNE and the NENE of Sec. 31, so this water right gives us the opportunity to cover additional heating use which occurs in the NENE. There is also a home located in the NENE that is provided heating water through the system.

Typically, the Department calculates heating based on heating the interior of a building. However, this mostly non-consumptive water use is all about utilizing the heat the water provides whether it be for commercial, recreation, aesthetic and/or heating use. People soak in the open pools, the private baths, are warmed by the heated sidewalks and restrooms, stay in the heated domes, etc. The heating component on water right 47-7829 should have matched the overall rate and volume of the commercial, aesthetic and recreation uses. However, the applicants only applied for 0.42 cfs for heating under permit 47-7829. On that application for permit the applicant justified the heating rate by calculating the interior spaces of buildings, building efficiency and BTU hours. The Department and/or the applicant should have recognized that use of this water in a hot springs resort is all about utilizing the heat value the water yields and as such base the heating rate and volume on the rate and volume used in the system. The commercial, recreation and aesthetic uses under 47-7829 have been recommended for licensing at the measured rate of 0.83 cfs and volume of 601.0 af the well produces.

This permit provides additional rate and volume by authorizing another 0.20 cfs and 144.8 af for heating use but still keeps the overall authorized heating use rate and volume of both rights (combined 0.62 cfs, 448.8 af) below the commercial, recreation and aesthetic use rate and volume water right 47-7829 authorizes. A condition has been placed on both 47-7829 and 47-16808 that limits all rights diverted from this well to the total diversion rate of 0.83 cfs and the total volume of 601.0 af authorized under water right 47-7829.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
HEATING	01/01 to 12/31	0.20 CFS	144.8 AF

Totals: 0.20 CFS 144.8 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 ☒ None

I. AUTHENTICATION Bill Mills - Water Resource Agent, Senior

Field Examiner's Name

Date

Reviewer

Date

2-20-2025
2/28/2025



Figure 1: Distant shot of open soaking pools and dressing rooms
(taken from a distance to prevent including guests soaking in pools)



Figure 2: Two of the heated domes

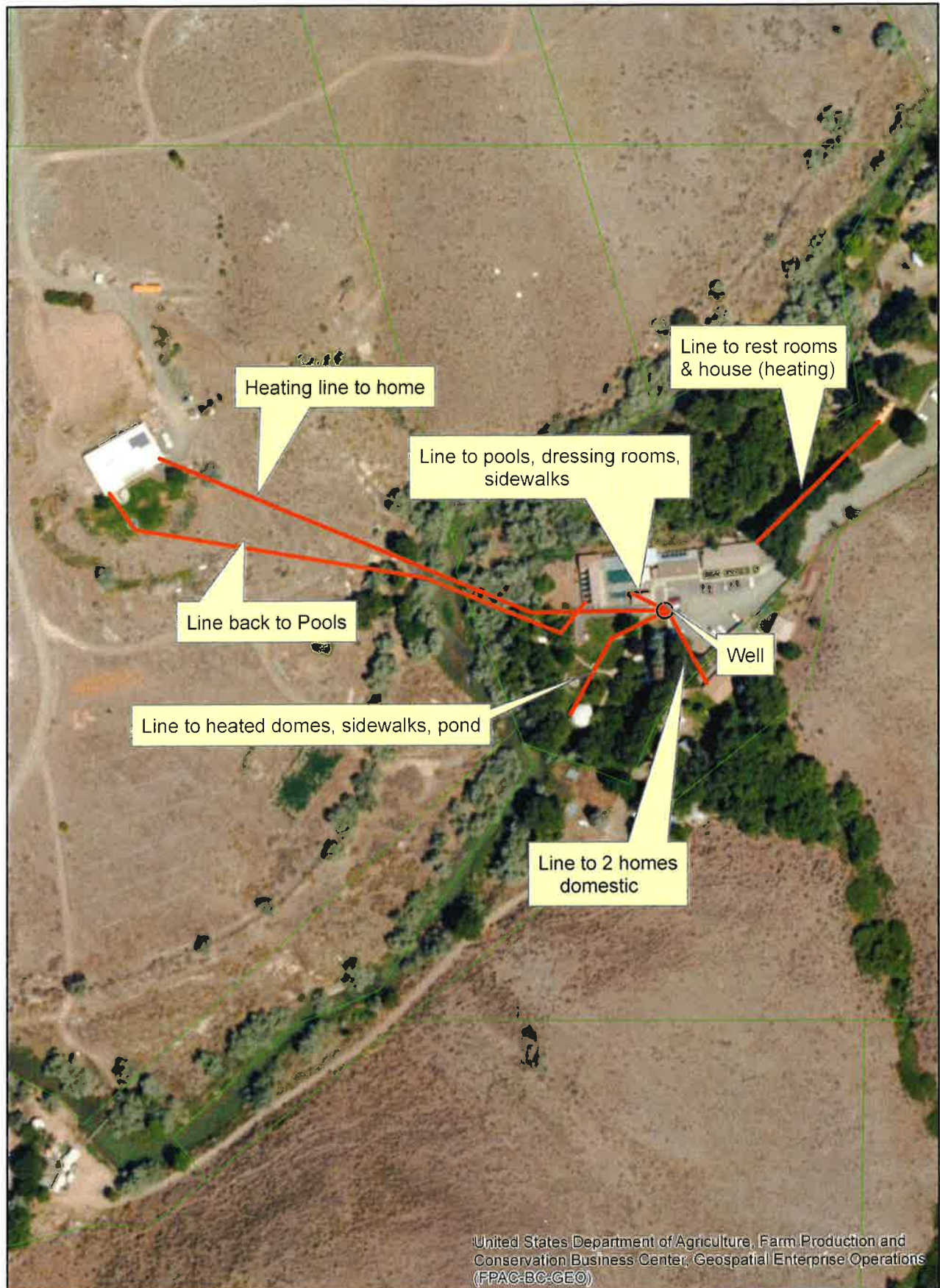


Figure 3: The well and distribution system

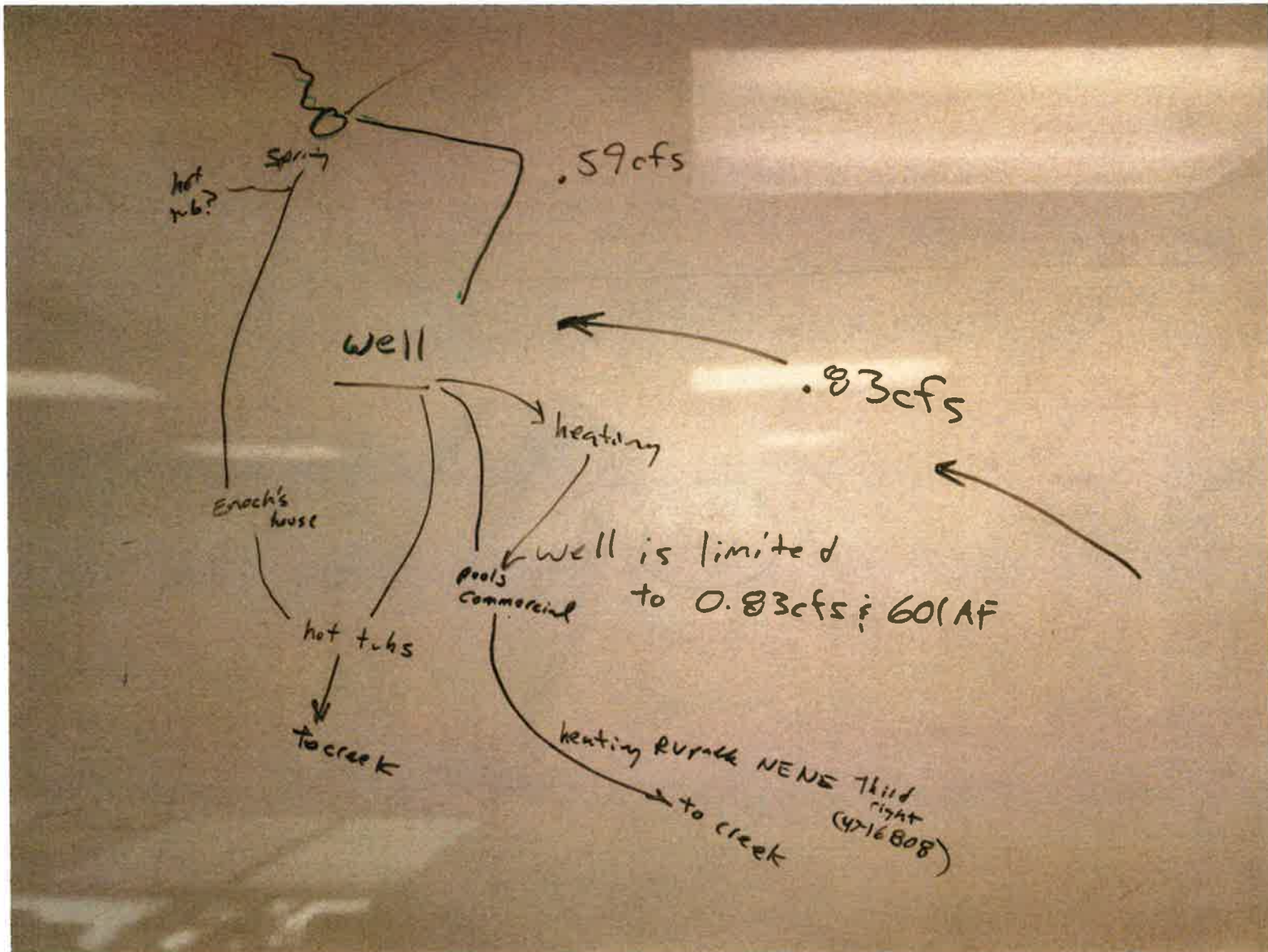


Figure 4: Heated Restrooms

System Diagram



System Diagram for M H Springs LLC



Measurement from 8/5/2002
Fuji Portaflow log & Field Notes
(4 pages)

LD02

No.02

LOG NAME:

START :06-05 10:20

END :06-05 10:30

INTERVAL:00:00:01

6/5/2002 10:20

+4.012E+0 ft/s

+6.188E+0 gal/s

+3.712E+2 gal/m

+TOTAL 0010767 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:21

+3.982E+0 ft/s

+6.141E+0 gal/s

+3.685E+2 gal/m

+TOTAL 0011114 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:22

+4.007E+0 ft/s

+6.179E+0 gal/s

+3.707E+2 gal/m

+TOTAL 0011485 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:23

+4.016E+0 ft/s

+6.194E+0 gal/s

+3.716E+2 gal/m

+TOTAL 0011859 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:24

+4.018E+0 ft/s

+6.197E+0 gal/s

+3.718E+2 gal/m

+TOTAL 0012233 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:25

+3.961E+0 ft/s

+6.109E+0 gal/s

+3.665E+2 gal/m

+TOTAL 0000143 gal

-TOTAL 0000000 gal
NORMAL

6/5/2002 10:26
+3.957E+0 ft/s
+6.102E+0 gal/s
+3.661E+2 gal/m
+TOTAL 0000512 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:27
+3.989E+0 ft/s
+6.152E+0 gal/s
+3.691E+2 gal/m
+TOTAL 0000849 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:28
+4.007E+0 ft/s
+6.179E+0 gal/s
+3.707E+2 gal/m
+TOTAL 0001220 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:29
+3.933E+0 ft/s
+6.066E+0 gal/s
+3.639E+2 gal/m
+TOTAL 0001588 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:30
+4.049E+0 ft/s
+6.244E+0 gal/s
+3.746E+2 gal/m
+TOTAL 0001958 gal
-TOTAL 0000000 gal
NORMAL

6.65" OD

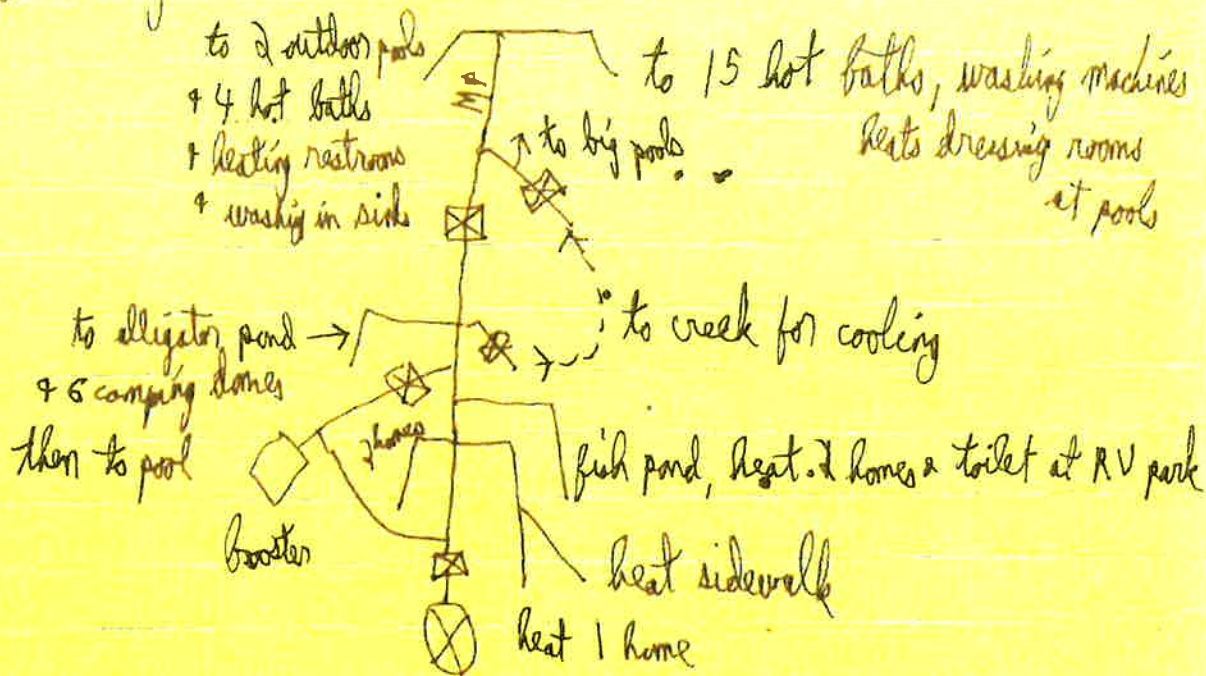
will put in flow meter if required.

114° at MP = 5043"/sec velocity

4.197
5.374" spacing on ^{large} ~~small~~ transducer

360-382 gpm 4482 gal/12 min. = peak flow = 373.5 gpm ave = 0.83 cfs

Outflow from pools goes into some natural ponds with a few fish, & then into creek. outflow from RV park goes to fish pond & then into stream, hot spring runs directly to hot pools & then into ponds & creek. no irrigation. fish in ponds for customers to fish for at no charge. alligator in one pond for viewing



2 culinary uses (showers, etc)

run 1/2" line along with drain line to field across creek

4
Baldor 7 1/2 hp booster motor F0103023005

Berkeley pump Model B3ZP1S #1 9338

total of 20 small hot baths