

## IN-OFFICE BENEFICIAL USE FIELD REPORT

Permit No: 65-12974B

Examiner: Phill Hummer

Date: 11/16/2017

In-office qualification (IDAPA 035.01.r):

- ☒ Irrigation  $\leq 5$  acres  
☐ Stockwater storage  $\leq 14.6$  af  
☒ Total diversion rate  $\leq 0.24$  cfs and not irrigation or storage

Current Owner Name: James Gebert

Address: HC 76 BOX 4043 Garden Valley ID 83622

Beneficial Use Fee Paid: \$100.00 Receipt: C033902

Source: Groundwater

 Source change? ☒ N ☐ Y Change clarifies originally intended source.  
 If not – void permit.

| Point of Diversion |     |     | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    |
|--------------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Twp                | Rge | Sec | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |
| 10N                | 04E | 33  |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |
|                    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

Method of Determination: Taxlot Data, Field Examination Report and Notes

POD change? ☒ N ☐ Y

| Place of Use |     |     | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|--------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| Twp          | Rge | Sec | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 10N          | 04E | 33  |    |    |    |    |    |    |    |    |    | D  |    |    |    |    |    |    |        |
|              |     |     |    |    |    |    |    |    |    |    |    | H  |    |    |    |    |    |    |        |

Method of Determination: Aerial Imagery (ArcMap), Taxlot Data, Field Examination Report and Notes

POU change? ☒ N ☐ Y

Purpose of Use: Domestic, Heating, Irrigation

Purpose change? ☒ N ☐ Y

Method of Determination:

Standard Season of Use: H/D 01/01-12/31, I 03/15-10/31

Update required on license? ☒ N ☐ Y**Overlap Review**POD overlap? ☐ N ☒ Y WR's: 65-12974A

Analysis Attached ☒ Comments: The field examination report and notes show that the POD used for the permit is in a different location than originally proposed (but same QQ). A new well was not constructed instead an existing well on Livingston Estates Lot A.

POU overlap? ☐ N ☒ Y WR's: 65-13526 and 65-3238

Comments: The shapefiles for these water rights overlap the place of use for this permit but the permit authorizes the use of a different source (groundwater) so there is no issue with overlapping rights. These two rights serve a different subdivision.

**Diversion Rate**

Permitted Rate: 0.03/0.03/0.03 cfs BU Standard Limit: 0.03/NA/0.02 cfs

I/H/D

BU Fee Limit: 1.00 total cfs Theoretical: NA/0.02/NA cfs Total System: 0.06 cfs

**Recommended Diversion Rate: NA/0.02/0.02 cfs Total: 0.02 cfs****Annual Volume**

For Irrigation: Not Recommended

For other uses: Heating:  $V_{div} = Q * d * (h/24) * 1.9845 = 0.02 * 180 * (12/25) * 1.9835 = 3.57$  afa

Domestic: Application Processing Memorandum No. 22 sets a standard volume for Domestic use of 0.6 afa when irrigation is not included.

## IN-OFFICE BENEFICIAL USE FIELD REPORT

**Recommended Amounts**

| Beneficial Use | Season of Use | Diversion Rate (cfs) | Annual Volume (af) |
|----------------|---------------|----------------------|--------------------|
| Heating        | 01/01-12/31   | 0.02                 | 3.6                |
| Domestic       | 01/01-12/31   | 0.02                 | 0.6                |
| Totals         |               | 0.02 cfs             | 4.2 af             |

**Amendments Required**

☐ Change P.D.      ☐ Add P.D.      ☒ None  
☐ Change P.U.      ☐ Add P.U.      ☐ Other:

**Conditions:** A drilling prospectus for the construction of the well is not on file, this is okay since a new well was not constructed in the development of this permit. Instead an existing well was developed that had been constructed prior to the submission of the original application.

Changes: Update 09C to R07. Remove 046, 016, 026, 057 and the text condition. Add WB5 and X10.

Have conditions of permit been met? ☒ Y ☐ N

**Narrative:** : An on-site examination was performed by Maria Minicuccion 06/09/1998, any remarks regrading a field examination, examination notes, or examination report are in reference to the examination conducted at that time and those documents generated as a result of that examination. The home and secondary building were under construction at the time of the field examination but the well had been drilled and the pump/motor was installed along with the piping necessary to deliver water to the home. Since the majority of the system was in place at the time of the examination and the use of water for heating and domestic purposes under this permit have likely been occurring for nearly 20 years an extension of the "stub-in" policy for subdivisions can be used to validate the beneficial use. However, the rate for both heating and domestic should be reduced. There is no evidence in the report or notes that suggests a pool, spa, or greenhouse was constructed as described in the design plans submitted with the application. Using the Heating/Cooling spreadsheet and the information submitted by the permit holder (see conversation memo dated 07/14/1998), 0.01 cfs should be adequate rate to provide enough heat for the home with an additional 0.01 cfs to provide heat to the garage and outbuilding. A beneficial use from a Low Temperature Geothermal source cannot be made until it is first used for heating purposes. For this reason the rate for domestic purposes should be reduced to 0.02 cfs, this is also the standard rate applicable for internal domestic use. There was nothing in the field examination report or the notes that indicates water was ever used for irrigation purposes nor is there any evidence that shows sprinklers or other irrigation systems were in place at the time of the exam. Irrigation use should not be licensed.

**Workflow**

Exam Date Entered ☒  
 POU/POD shapes ☒  
 Combined Rights Entry ☐ NA  
 Wild & Scenic Entry ☐ NA  
 Draft License and Map ☒  
 FE Database (N: drive) ☒

**Supporting Documents**

Aerial Photograph ☐      Well Log ☒  
 POU/POD Map ☒      Diagrams ☒  
 LandSat ☐      Theoretical ☒  
 Photographs ☒      Other:  
 Site Visit Date: 06/09/1998

**Authentication**

Field Examiner's Name: PH

Date: 1/25/18

Reviewer: Angela H. Gorman

Date: 2/7/18

# IDAHO DEPARTMENT OF WATER RESOURCES

## WELL INSPECTION FORM

1. DRILLING PERMIT NO: \_\_\_\_\_ OTHER APPLICABLE NO: 65-12974A

2. OWNER: Richard/Suzanne Andrews Phone: \_\_\_\_\_  
Address: \_\_\_\_\_

3. WELL LOCATION: Twp 10N, Rge. 4E, Sec. 33, NW 1/4 SW 1/4  
County Boise (Provide sketch map and photo on reverse.)

4. DRILLER: \_\_\_\_\_ Lic. No. \_\_\_\_\_  
When Drilled? \_\_\_\_\_

5. WELL CONSTRUCTION:

Casing Diameter \_\_\_\_\_ inches Water tight cap? ☐ Yes ☐ No Access Port: ☐ Yes ☐ No

Casing  $\geq$  12 inches above ground? ☐ Yes ☐ No - Describe \_\_\_\_\_

Depth of Casing \_\_\_\_\_ ft. Method Drilled \_\_\_\_\_

Condition of Well Casing: ☐ Good ☐ Fair ☐ Poor Describe \_\_\_\_\_

Control Valve? ☐ Yes ☐ No Pressure Gauge: ☐ Yes ☐ No

Condition of Piping and Valving \_\_\_\_\_

Auger to a depth of \_\_\_\_\_ ft. Evidence of Annular Seal ☐ Yes ☐ No

Are there obvious construction problems that may be a source for contamination or waste of water?  
☐ Yes ☐ No (Describe in Remarks and Attach Photo - On Reverse)

6. HYDROLOGIC INFORMATION:

Depth to Static Water \_\_\_\_\_ ft. Water Temperature \_\_\_\_\_ °F

Flowing Artesian ☐ Yes ☐ No Pressure: \_\_\_\_\_ (psi)

Water Sample Taken? ☐ Yes ☐ No If yes, describe purpose \_\_\_\_\_

Water Quality Measurements/Observations (Describe) \_\_\_\_\_

7. WELL USE:

|                                       |                                                   |                                     |
|---------------------------------------|---------------------------------------------------|-------------------------------------|
| <input type="checkbox"/> Domestic     | <input type="checkbox"/> Irrigation               | <input type="checkbox"/> Stock      |
| <input type="checkbox"/> Test         | <input type="checkbox"/> Municipal                | <input type="checkbox"/> Industrial |
| <input type="checkbox"/> Abandoned    | <input type="checkbox"/> Waste Disposal/Injection | <input type="checkbox"/> Not Used   |
| <input type="checkbox"/> Other: _____ |                                                   |                                     |

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Chemigation? ☐ Yes ☒ No

If yes, is there a check-valve present? ☐ Yes ☐ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? \_\_\_\_\_

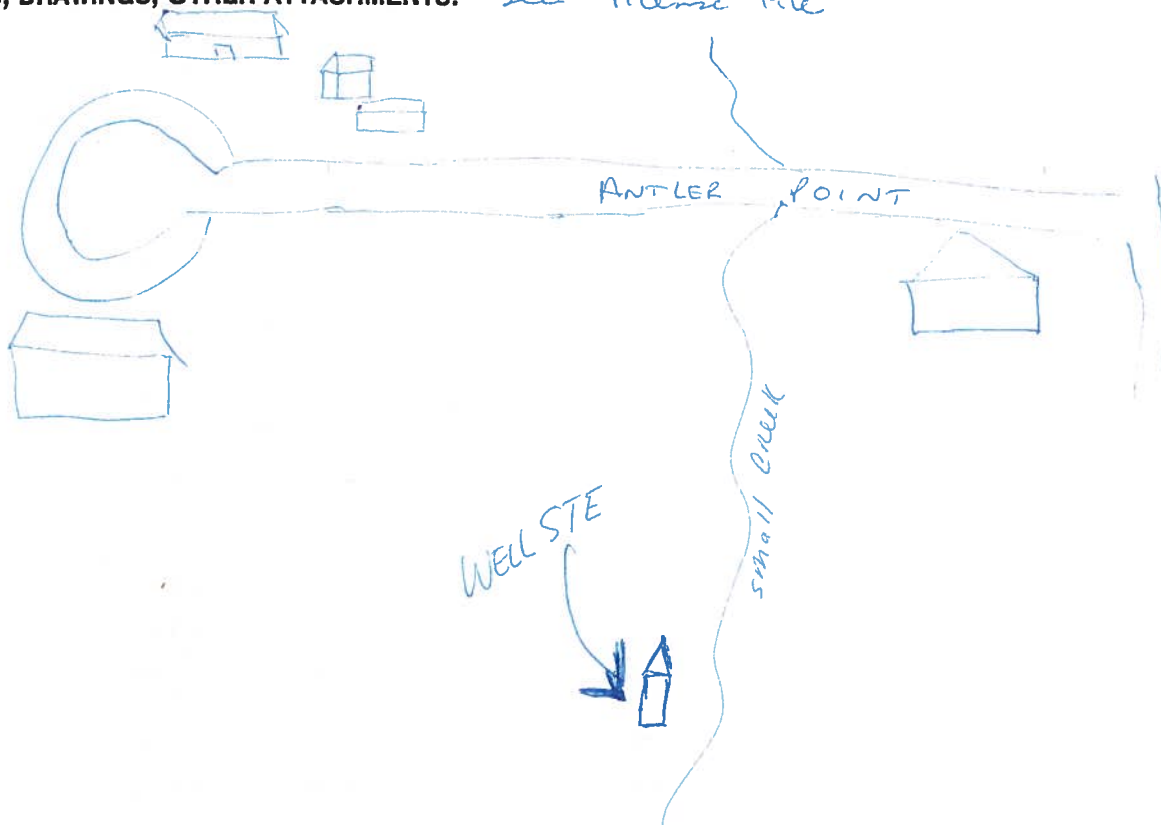
How far away from the well is this source? \_\_\_\_\_

9. REMARKS: Well located on Lot 4, Livingston Estates, Serves homes on Lots 2+3.  
This well ~~was~~ does not serve Lot 1 or Lot 1 of Castle Mountain  
Creek Subdivision No. 1.

H. H. [Signature] Sr. Water  
Signature of Dept. Representative & Title

9 JUNE 98  
Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS: See license file



Nancy + Ed Herring

6/9/1998

Their property is covered  
by 65-07770F? YES

Heating + domestic

Herrings live in Livingston's  
original house

Property goes to creek  
Well + 2 homes on  
other side of  
creek.

1 well in common area serves two homes

↓  
Lots 2+3 in Livingston Estate  
Well is located on Lot A

2nd well on lot  
x street from  
Herring - no  
development  
(house or  
foundation  
or garage)

Well 6" casing

Jacuzzi pump

Installed Sept 18, 1995

Model No. 2823018110

2HP

Motor: 1 1/4 standstill down well

2' above ground

GPS SITE ID A0001462

Now 7 ANTLER PT

Valley Pump

Emmett

765-2972

Dennis White

No pools or spas @ either home (Andrews or Bebert)

Well #2 GPS SITE # A0001461

6" casing

No development

No foundation or electricity seen.

Septic is in.

From: DWR06::"kneely@idwr.state.id.us" "Ken Neely" 11-JUN-1998 11:44:17.48  
To: mminicuc@idwr.state.id.us ('Maria')  
CC:  
Subj: Castle Mt. Creek wells.

Maria,

It looks to me that well 1461 is in the NE 1/4 of the SE 1/4 of Section 32.=

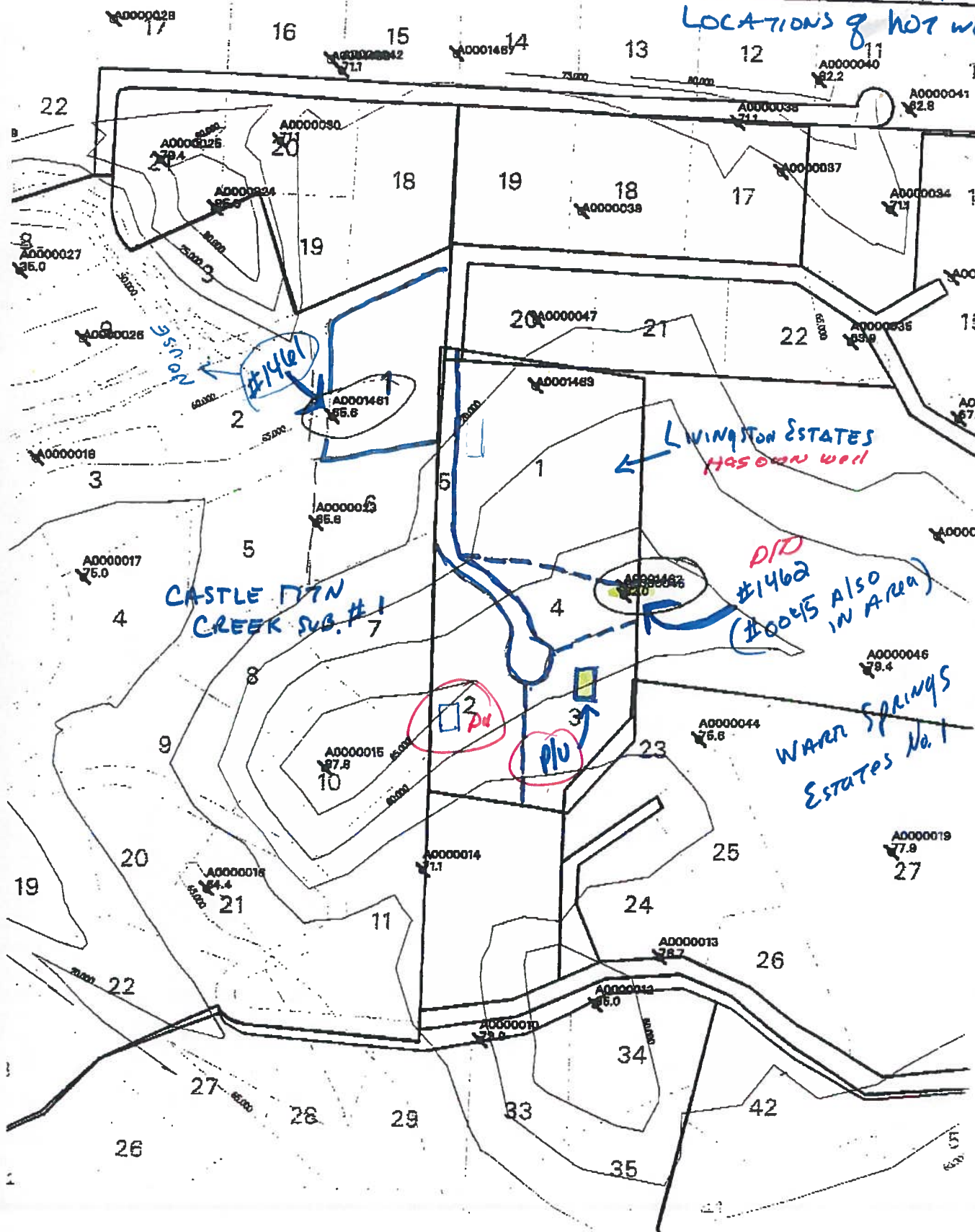
=

Well 1462 is in the NW 1/4 of the SW 1/4 of section 33.

Ken

draft 6/24/96 1:2400

map from K. Neely  
of IDWR Technical  
STAFF (STATE OFFICE)  
LOCATIONS of HOT wells



| TRS      | Process      | Basin Sequence | Owner                                               | Source                | POD | Use | NENE | NWNE | SWNE | SENE | NENW | SWNW | SENW | NESE | NWSE | SWSE | SESE | Total Acres |
|----------|--------------|----------------|-----------------------------------------------------|-----------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-------------|
| 10N04E33 | Water Permit | 65-12974A      | ANDREWS, RICHARD;<br>ANDREWS, SUZANNE;              | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Permit | 65-12974B      | GEBERT, JAMES;<br>LIVINGSTON, EARL D;               | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Permit | 65-12974C      | GOFFIN, MARTIN; GOFFIN,<br>SUE, LIVINGSTON, EARL D; | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12287       | FREEMAN, DONNA S;<br>FREEMAN, LLOYD J;              | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12289       | ARMSTRONG, BETTY B;<br>ARMSTRONG, DICK W            | WARM SPRINGS          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12290       | WILDER, ANNA LOU;<br>WILDER, JOHN J                 | WARM SPRINGS          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12292       | GREDA, DENNIS A;<br>GREDA, SHERI L; MC              | WARM SPRINGS          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12301       | GUERNSEY, DORIS L;<br>GUERNSEY, ROGER L             | WASTE WATER           | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12302       | EARL, FRANK M;<br>HAMPTON, DEBBY;                   | SPRINGS               | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12719       | BUNN, D ANN; BUNN,<br>GARY L; PARTRIDGE,            | SPRINGS               | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-12985       | TERRACE LAKES<br>RECREATIONAL RANCH                 | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-13050       | ANDERSON, JAMIE A;<br>JARVIS, LON; JARVIS,          | SPRINGS               | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-13411       | SPOFFORD, CONNIE L;<br>SPOFFORD, ROBIN S            | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-13457       | TERRACE LAKES<br>RECREATIONAL RANCH                 | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-13562       | JANSEN, JOHN A; JANSEN,<br>NICOLA M; STOUT, BILL;   | SPRING                | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-13737       | JANSEN, JOHN A; JANSEN,<br>NICOLA M; STOUT,         | SPRING                | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-18076       | SCHREINER, BARBARA L;<br>SCHREINER, LOUIS I         | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-22440       | MILLER, BARBARA A;<br>MILLER, CLEO R; SCHULZ,       | WARM SPRINGS          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-22441       | ERO RESOURCES CORP;<br>GRAY, CHAD T; JARVIS,        | WARM SPRINGS          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-22687       | KNIGGE, RICHARD;<br>KNIGGE, VICKI                   | WARM SPRINGS<br>CREEK | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-22793       | BEEMAN & ASSOC PC;<br>CASTLE MOUNTAIN CREEK         | SPRINGS               | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-22794       | CASTLE MOUNTAIN CREEK<br>OWNERS ASSN INC;           | SPRINGS               | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-23085       | TERRACE LAKES WATER<br>CO; X ROADS                  | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-23495       | GRAY, CHAD T; JARVIS,<br>LON; SCHULZ, DIANA G;      | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-23496       | SCHULZ, DIANA G; SCHULZ,<br>USTO E; WEBB, MAC       | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-23497       | ANDERSON, JAMIE A;<br>SCHULZ, DIANA G; SCHULZ,      | GROUND WATER          | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right  | 65-23504       | JARVIS, LON; JARVIS,<br>RENEE; WEBB, MAC            | SPRINGS               | POD |     |      |      |      |      |      |      |      |      |      |      |      |             |

same well?  
different well for lot 1

Diff Lot

Diff source

Spring

Spring

Diff source

Diff source

Spring

Spring

Diff lot

Spring

| Trs      | Process     | Basin Sequence | Owner                                                                          | Source             | POD | POU | Use | NENE | NWNE | SWNE | SENE | NE1W | NWNW | SE1W | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE | Total Acres |
|----------|-------------|----------------|--------------------------------------------------------------------------------|--------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| 10N04E33 | Water Right | 65-3233        | TERRACE LAKES RECREATIONAL RANCH INC                                           | WARM SPRINGS CREEK | POD |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |             |
| 10N04E33 | Water Right | 65-3238        | BEEMAN & ASSOC PC, CASTLE MOUNTAIN CREEK                                       | UNNAMED STREAM     | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-3239        | TERRACE LAKES RECREATIONAL RANCH INC                                           | WARM SPRINGS CREEK | POD |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |             |
| 10N04E33 | Water Right | 65-4002X       | WARD, EARLE L; WARD, JAN; WARD, LEIGH; WARM                                    | SPRINGS            | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7118        | TERRACE LAKES RECREATIONAL RANCH INC                                           | SPRING             | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7562        | MILLER, BARBARA A; MILLER, CLEO R; SCHULZ, CZECH, ALICE, CZECH,                | WARM SPRINGS CREEK | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7592        | MICHAEL; WITHROW, MICHAEL; DOROTHY; BLAKE, JAMES J                             | WARM SPRINGS CREEK | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7595        | BLAKE, DOROTHY; BLAKE, JAMES J                                                 | GROUND WATER       | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7770B       | CZECH, ALICE, CZECH, MICHAEL; ERO RESOURCES                                    | GROUND WATER       | POD |     |     |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |             |
| 10N04E33 | Water Right | 65-7770F       | HERRING, EDWARD; HERRING, NANCY;                                               | GROUND WATER       | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7770G       | MILLER, BARBARA A; MILLER, CLEO R; SCHULZ, MICHAEL; HARRY S; PETERSON, JACK E; | GROUND WATER       | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7770H       | BURGER JR, HARRY S; PETERSON, JACK E;                                          | GROUND WATER       | POD |     |     |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |             |

| TRIS     | Process     | Basin Sequence | Owner                                           | Source             | POD POU | Use             | NENE | NWNE | SWNE | SENE | NEWN | NWNW | SWNW | SESW | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE | Total Acres |
|----------|-------------|----------------|-------------------------------------------------|--------------------|---------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| 10N04E33 | Water Right | 65-12289       | ARMSTRONG, BETTY B; ARMSTRONG, DICK W           | WARM SPRINGS       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |             |
| 10N04E33 | Water Right | 65-12292       | GRENDA, DENNIS A;                               | WARM SPRINGS       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |             |
| 10N04E33 | Water Right | 65-12776       | CASTLE MOUNTAIN CREEK OWNERS ASSN INC           | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      | X    | X    | X    | X    | X    | X    |      |      |      |      |             |
| 10N04E33 | Water Right | 65-12985       | TERRACE LAKES RECREATIONAL RANCH                | GROUND WATER       | POU     | DOMESTIC        | X    | X    | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-13050       | ANDERSON, JAMIE A; JARVIS, LOI; JARVIS,         | SPRINGS            | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-13457       | TERRACE LAKES RECREATIONAL RANCH                | GROUND WATER       | POU     | DOMESTIC        | X    | X    | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-13526       | CASTLE MOUNTAIN CREEK OWNERS ASSN INC           | WARM SPRINGS CREEK | POU     | DOMESTIC        |      |      |      |      |      |      | X    | X    | X    | X    | X    | X    |      |      |      |      |             |
| 10N04E33 | Water Right | 65-13562       | JANSEN, JOHN A; JANSEN, NICOLA M; STOUT, BILL;  | SPRING             | POU     | DOMESTIC        |      |      |      |      |      |      | X    | X    | X    | X    | X    | X    |      |      |      |      |             |
| 10N04E33 | Water Right | 65-13737       | JANSEN, JOHN A; JANSEN, NICOLA M; STOUT,        | SPRING             | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-22440       | MILLER, BARBARA A; MILLER, CLEO R; SCHULZ,      | WARM SPRINGS       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-22441       | ERO RESOURCES CORP; GRAY, CHAD T; JARVIS,       | WARM SPRINGS       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-23085       | TERRACE LAKES WATER CO; X ROADS                 | GROUND WATER       | POU     | DOMESTIC        | X    | X    | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-23495       | GRAY, CHAD T; JARVIS, LOI; SCHULZ, DIANA G;     | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-23496       | SCHULZ, DIANA G; SCHULZ, USTO E; WEBB, MAC      | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-23497       | ANDERSON, JAMIE A; SCHULZ, DIANA G; SCHULZ,     | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-23504       | JARVIS, LOI; JARVIS, RENEE; WEBB, MAC           | SPRINGS            | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-3238        | BEEHAN & ASSOC PC; CASTLE MOUNTAIN CREEK STREAM | UNNAMED STREAM     | POU     | DOMESTIC        |      |      |      |      |      |      | X    | X    | X    | X    | X    | X    |      |      |      |      |             |
| 10N04E33 | Water Right | 65-3238        | BEEHAN & ASSOC PC; CASTLE MOUNTAIN CREEK        | WARM SPRINGS CREEK | POU     | DOMESTIC        |      |      |      |      |      |      | X    | X    | X    | X    | X    | X    |      |      |      |      |             |
| 10N04E33 | Water Right | 65-4002X       | WARD, EARLE L; WARD, JAN; WARD, LEIGH; WARM     | SPRINGS            | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7140        | TERRACE LAKES RECREATIONAL RANCH INC            | MC BRIDE CREEK     | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7562        | MILLER, BARBARA A; MILLER, CLEO R; SCHULZ,      | WARM SPRINGS CREEK | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7592        | CZECH, ALICE; CZECH, MICHAEL; WITHROW,          | WARM SPRINGS CREEK | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7595        | BLAKE, DOROTHY; BLAKE, JAMES J                  | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7770B       | CZECH, ALICE; CZECH, MICHAEL; ERO RESOURCES     | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7770F       | HERRING, EDWARD; HERRING, NANCY;                | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7770G       | MILLER, BARBARA A; MILLER, CLEO R; SCHULZ,      | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-7770H       | BURGER JR, HARRY S; PETERSON, JACK E;           | GROUND WATER       | POU     | DOMESTIC        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |
| 10N04E33 | Water Right | 65-23085       | TERRACE LAKES WATER CO; X ROADS                 | GROUND WATER       | POU     | FIRE PROTECTION | X    | X    | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      |             |

| TRS      | Process      | Basin Sequence | Owner                                           | Source        | POD POU | Use        | NENE | NVINE | SWINE | SENE | NENW | NWNW | SWNW | SENW | NESW | NWSW | SWSW | SESW     | NESE                     | NWSE | SWSE | SESE | Total Acres |
|----------|--------------|----------------|-------------------------------------------------|---------------|---------|------------|------|-------|-------|------|------|------|------|------|------|------|------|----------|--------------------------|------|------|------|-------------|
| 10N04E33 | Water Right  | 65-12287       | FREEMAN, DONNA S.; FREEMAN, LLOYD J;            | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      | A:ft 1.7 |                          |      |      |      |             |
| 10N04E33 | Water Right  | 65-12289       | ARMSTRONG, BETTY B; ARMSTRONG, DICK W           | WARM SPRINGS  | POU     | HEATING    |      |       |       |      |      |      |      |      |      |      |      |          |                          | X    |      |      |             |
| 10N04E33 | Water Right  | 65-12290       | WILDER, ANNA LOU; WILDER, JOHN J                | WARM SPRINGS  | POU     | HEATING    |      |       |       |      |      |      |      |      |      |      |      |          |                          |      | X    |      |             |
| 10N04E33 | Water Right  | 65-12292       | GRENDA, DENNIS A; GREYDA, SHERI L; MC           | WARM SPRINGS  | POU     | HEATING    |      |       |       |      |      |      |      |      |      |      |      |          |                          |      |      |      |             |
| 10N04E33 | Water Right  | 65-12301       | GUERNSEY, DORIS L; GUERNSEY, ROGER L            | WASTE WATER   | POU     | HEATING    |      |       |       |      |      |      |      |      |      |      |      |          |                          |      | X    |      |             |
| 10N04E33 | Water Right  | 65-12302       | EARL, FRANK M; HAMPTON, DEBBY;                  | SPRINGS       | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-13050       | ANDERSON, JAMIE A; JARVIS, LON; JARVIS,         | SPRINGS       | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | P:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-13411       | SPOFFORD, CONNIE L; SPOFFORD, ROBIN S           | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      |      | X    |          |                          |      |      |      |             |
| 10N04E33 | Water Right  | 65-22440       | MILLER, BARBARA A; MILLER, CLEO R; SCHULZ,      | WARM SPRINGS  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-22441       | ERO RESOURCES CORP; GRAY, CHAD T; JARVIS,       | WARM SPRINGS  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-22793       | BEEHMAN & ASSOC PC; CASTLE MOUNTAIN CREEK       | SPRINGS       | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-22794       | OWNERS ASSN INC; GRAY, CHAD T; JARVIS,          | SPRINGS       | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-23495       | GRAY, CHAD T; JARVIS, LON; SCHULZ, DIANA G;     | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-23496       | SCHULZ, DIANA G; SCHULZ, JUSTO E; WEBB, MAC     | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | P:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-23497       | ANDERSON, JAMIE A; SCHULZ, DIANA G; SCHULZ,     | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-23504       | JARVIS, LON; JARVIS, RENEE; WEBB, MAC           | SPRINGS       | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | P:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-4002X       | WARD, EARLE L; WARD, JAN; WARD, LEIGH; WARM     | SPRINGS       | POU     | HEATING    |      |       |       |      |      |      |      | X    |      |      |      |          |                          |      |      |      |             |
| 10N04E33 | Water Right  | 65-7118        | TERRACE LAKES RECREATIONAL RANCH INC            | SPRING        | POU     | HEATING    |      |       |       |      |      |      |      |      |      |      |      |          | X                        | X    | X    | X    |             |
| 10N04E33 | Water Right  | 65-77708       | CZECH, ALICE; CZECH, MICHAEL; ERO RESOURCES     | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      | X    |      |      |      |          |                          |      |      |      |             |
| 10N04E33 | Water Right  | 65-7770F       | HERRING, EDWARD; HERRING, NANCY;                | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | P:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-7770G       | MILLER, BARBARA A; MILLER, CLEO R; SCHULZ,      | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Right  | 65-7770H       | BURGER JR, HARRY S; PETERSON, JACK E;           | GROUND WATER  | POU     | HEATING    |      |       |       |      |      |      |      |      |      | X    |      |          | D:ft 1.7                 |      |      |      |             |
| 10N04E33 | Water Permit | 65-12974A      | ANDREWS, RICHARD; ANDREWS, SUZANNE;             | GROUND WATER  | POU     | IRRIGATION |      |       |       |      |      |      |      |      |      | 1    |      |          |                          |      |      |      | 1           |
| 10N04E33 | Water Permit | 65-12974B      | GEBERT, JAMES; LIVINGSTON, EARL D;              | GROUND WATER  | POU     | IRRIGATION |      |       |       |      |      |      |      |      |      | 1    |      |          |                          |      |      |      | 1           |
| 10N04E33 | Water Permit | 65-12974C      | GOFFIN, MARTIN; GOFFIN SUE; LIVINGSTON, EARL D; | GROUND WATER  | POU     | IRRIGATION |      |       |       |      |      |      |      |      |      | 1    |      |          | 7 split WR diff property |      |      |      | 1           |
| 10N04E33 | Water Right  | 65-10780       | TERRACE LAKES RECREATIONAL RANCH INC            | EASLEY CREEK  | POU     | IRRIGATION |      |       |       |      |      |      |      |      |      |      |      |          | same parent              |      |      |      | 1           |
| 10N04E33 | Water Right  | 65-10782       | TERRACE LAKES RECREATIONAL RANCH INC            | SCRIVER CREEK | POU     | IRRIGATION |      |       |       |      |      |      |      |      |      |      |      |          |                          |      |      |      | 1           |
| 10N04E33 | Water Right  | 65-12719       | BUNN, D ANN; BUNN, GARY L; PARTRIDGE,           | SPRINGS       | POU     | IRRIGATION |      |       |       |      |      |      |      | 1    |      |      |      |          |                          |      |      |      | 1           |

[illegible]

# RESIDENTIAL SPACE HEATING/COOLING REQUIREMENTS FOR COLD OR GEOTHERMAL SOURCES

Worksheet created by Cindy Hodges, 11/93.

Data entered by: Phill Hummer  
Exam Date: 11/15/17  
File No: 65-12974B  
Computations for: Heating

## REQUIRED DATA:

Area of livable floor space, ft<sup>2</sup> (A) 1536 Home  
2 story? (N=1, Y=2) 1 Second story is not heated  
House efficiency factor (e) \* 0.67  
Inside design temperature (Ti) 70  
Average outside temperature (To) \*\* 23.2 See attached climate data  
Source temperature, degrees F (S) 179 From the well log  
Heating/cooling days per season (D) 180 October-March  
Hours/day system operates (H) 12

\*\*\*\*\*

\* e values are as follows:

- 0.28 Best energy efficiency - extra insulation, caulked and weatherstripped, with storm windows and doors
- 0.44 Better energy efficiency - standard insulation, caulked and weatherstripped, with storm windows and/or doors
- 0.67 Average residence - standard insulation, no weatherproofing but with storm windows or double panes
- 1.11 Poor energy efficiency - minimal insulation, no weatherproofing or storm windows (older homes, shops or greenhouses)

\*\* Suggested average outside temperatures:

### WINTER

4 deg F Boise  
6 deg F Grand View  
-8 deg F Cascade

### SUMMER

80 deg F Boise  
90 deg F Grand View  
70 deg F Cascade

\*\*\*\*\*

## CALCULATED DATA:

DESIGN HEAT LOAD (BTU/hr required)  
Formula:  $E = [e \times (T_i - T_o)] \times A$   
Applies factor of 0.8 for two-story dwelling

E = 48,163 BTU/hour

TEMPERATURE DROP ACROSS SYSTEM  
Formula:  $T_s = 0.3 \times [S - T_i]$

Ts = 32.7 degrees F

FLOW RATE REQUIRED (at given source temperature)  
Formula:  $Q = E / (500 \times T_s) \times 448.8$

Q = 0.01 cfs

DIVERTED VOLUME OVER SEASON  
Formula:  $V_{div} = Q \times D \times H / 24 \times 1.9835$

Vdiv = 1.17 AFA

## AVERAGE TEMPERATURE CALCULATION:

4 DEG MIN + 80 DEG HIGH / 2 =  
42 DEG AVERAGE YEAR ROUND TEMP.

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## Climate Garden Valley - Idaho

°C | °F

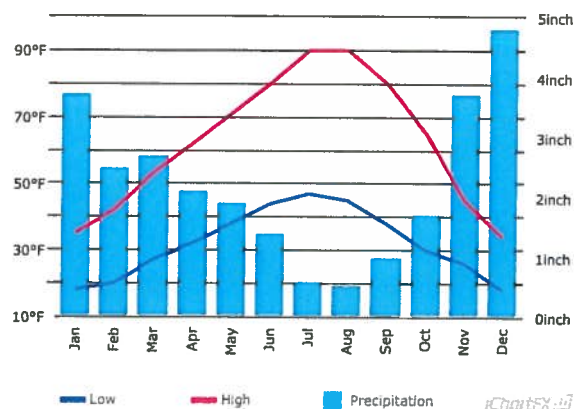
## Garden Valley weather averages

|                            | Jan | Feb  | Mar  | Apr  | May  | Jun  |
|----------------------------|-----|------|------|------|------|------|
| Average high in °F:        | 35  | 42   | 53   | 62   | 71   | 80   |
| Average low in °F:         | 18  | 20   | 27   | 32   | 38   | 44   |
| Av. precipitation in inch: | 3.7 | 2.48 | 2.68 | 2.09 | 1.89 | 1.38 |
| Days with precipitation:   | -   | -    | -    | -    | -    | -    |
| Hours of sunshine:         | -   | -    | -    | -    | -    | -    |
| Average snowfall in inch:  | 21  | 9    | 3    | 0    | 0    | 0    |

|                                              |            |
|----------------------------------------------|------------|
| Annual high temperature:                     | 62.3°F     |
| Annual low temperature:                      | 31.9°F     |
| Average temperature:                         | 47.1°F     |
| Average annual precipitation - rainfall:     | 26.49 inch |
| Days per year with precipitation - rainfall: | -          |
| Annual hours of sunshine:                    | -          |
| Av. annual snowfall:                         | 62 inch    |

|                            | Jul  | Aug  | Sep  | Oct  | Nov | Dec |
|----------------------------|------|------|------|------|-----|-----|
| Average high in °F:        | 90   | 90   | 80   | 65   | 45  | 34  |
| Average low in °F:         | 47   | 45   | 38   | 30   | 26  | 18  |
| Av. precipitation in inch: | 0.59 | 0.51 | 0.98 | 1.69 | 3.7 | 4.8 |
| Days with precipitation:   | -    | -    | -    | -    | -   | -   |
| Hours of sunshine:         | -    | -    | -    | -    | -   | -   |
| Average snowfall in inch:  | 0    | 0    | 0    | 0    | 7   | 22  |

## Garden Valley Climate Graph - Idaho Climate Chart



Climate data for garden valley, Longitude: -115.969, Latitude: 44.1011  
 Average weather Garden Valley, ID - 83622 - 1981-2010 normals

Jan: January, Feb: February, Mar: March, Apr: April, May: May, Jun: June, Jul: July, Aug: August, Sep: September, Oct: October, Nov: November, Dec: December

[Climograph of Garden Valley on your website](#)

Assuming heating takes place Oct - March (6 months)

avg low temp = 23.2°F

# heating days (6.30) = 180 days

## (cjh 1/92)

65-12974B

## Phil11 Hummer

11/14/2017

| OPTION 1 | OPTION 2 | OPTION 3 |
|----------|----------|----------|
|----------|----------|----------|

2

2

2

0



Q

100

100

100

30

40

50

0

0

0

AVG

0.07

0.06

90.0

0.06

32.7

28.7

25.7

29.0

9

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

%70 efficiency.

**Examiners Notes:**

Notes written by an examiner from a field visit on 06/09/1998 say a 2 hp pump was installed on 09/18/1995. The pumping level was determined by assuming the pump is set 10 ft below the static water level. The well log shows the static water level is 90 ft. I used a range of discharge pressures based on standard pressures of similar pumps at that pumping level.

## WELL DRILLER'S REPORT

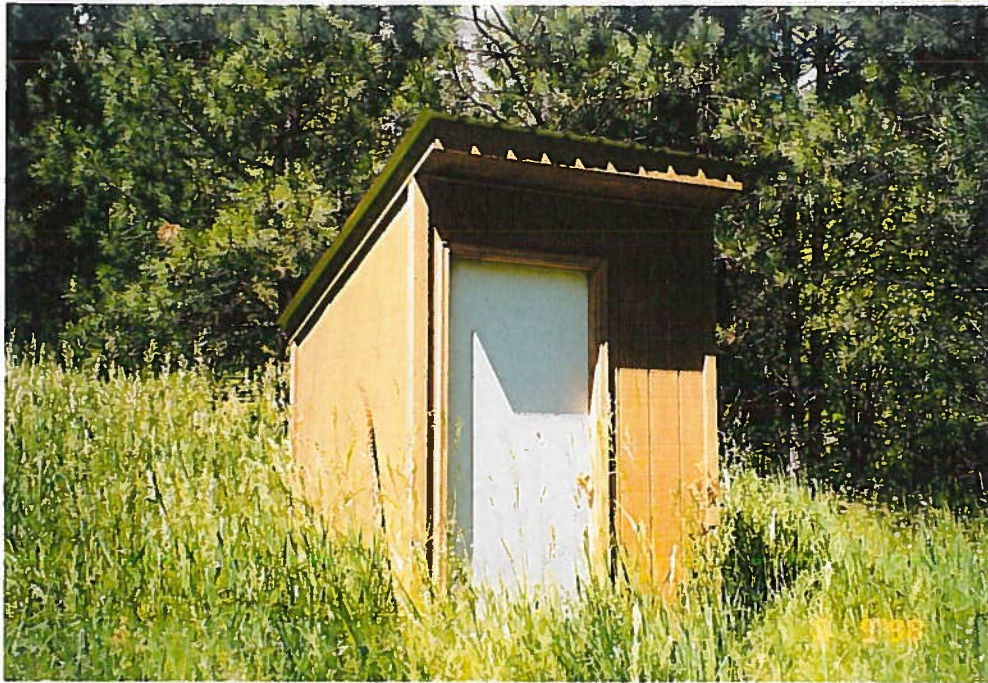
**State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.**

[illegible]



PHOTOGRAPHER AND DATE OF PHOTOS M. Minicucci 06/09/1998

FILE NO. AND LEGAL DESCR. 65-12974A T10N R4E S33 NWSW



Locked well house. Creek is on opposite side, Located on Lot 4, Livingston Estates.

GPS SITE ID  
A000 1462



Well inside well house. Serves Lots 2 and 3 Livingston Estates. Lot 1 has its own well located on that lot.



Picture 1. House under construction on Lot 2 Livingston Estates #1.  
This is part of the place of use for the Heating and Domestic use.



Picture 2. Outbuilding on Lot 2 of Livingston Estates #1, the other  
place of use for Heating and Domestic.

CONVERSATION MEMORANDUM

DATE 07/14/1998

FILE 65-12974

NAME OF PARTY MR. Gebert (208) 396-6136

EMPLOYEE T. Nicucci

RE: MR. Gebert, who owns one of the homes covered by the permit, called today with the following information:

LITTLE BUILDING: Copper heat under flooring provides radiant heat. 3/4 inch pipe, 11 loops 11.5 ft each (looped together). Total building is 24 ft x 22 ft (528 ft<sup>2</sup>), heated portion is 12 ft x 22 ft (264 ft<sup>2</sup>).

Home: Also copper piping for radiant floor heat (closed system). Main floor is 32 ft x 48 ft (1536 ft<sup>2</sup>) and loft is not heated. Copper pipe in plastic brackets.

Garge: 24 ft x 24 ft (576 ft<sup>2</sup>)

The garge is kept @ approximately 50°F. The other two buildings are thermostatically controlled between 68°-70°F.