

MAR 18 2016

Department of Water Resources
Eastern Region

AMMENDED

Page 1

Ident. No. 22-14204

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public water of the State of Idaho

1. Name: THOMAS H AND MARY MULRICH
281 WEST HAVEST RUN
IDAHO FALLS ID 83403
2. Source: GROUND WATER
3. Location of Point of Diversion:
#1 GROUND WATER NW1/4SE1/4 Sec. 6, Twp 05N, Rge 46E, B.M. TETON County
4. Water will be used for the following purposes:

<u>Purpose</u>	<u>From</u> _____ <u>To</u> _____	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
COOLING	01/01 to 12/31	0.08 CFS	
DOMESTIC	01/01 to 12/31	0.04 CFS	
HEATING	01/01 to 12/31	0.08 CFS	

5. Total quantity to be appropriated is: 0.12 CFS

6. Proposed diverting works:

POINT OF DIVERSION #1

a. Type and size of devices used to divert water from the source: WELL AND PUMP INTO WATER LINE

- b. Height of storage dam _____ feet;
Active reservoir capacity _____ acre-feet;
Total reservoir capacity _____ acre-feet;

- c. Proposed well diameter is 6 inches;
Proposed depth of well is 280 feet.

d. Is ground water with a temperature of greater than 85F being sought?

- e. If well is already drilled, when? _12/19/2013_____;
Drilling Firm _Denning Drilling_____;
Drilling Permit No. _0063510_____.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 year(s).

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public water of the State of Idaho

8.

PLACE OF USE: COOLING

Twp Rge Sec	NE				NW				SW				SE				Totals
05N 46E 6	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
05N 46E 6	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X

PLACE OF USE: HEATING

Twp Rge Sec	NE				NW				SW				SE				Totals
05N 46E 6	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X

9a. Who owns the property at the point of diversion? If other than applicant, describe the arrangement enabling the applicant to make this filing.

Point of Diversion #1: THE BANK OF COMMERCE - Written Easement

9b. Who owns the land to be irrigated or place of use? If other than applicant, describe the arrangement enabling the applicant to make this filing.

APPLICANT

10. Remarks: Applicant desires to use an existing domestic well to provide in-house water for their home on Lot 14 of the Grouse Landing Subdivision, which is very close to the current domestic well that is used for fire protection in the subdivision. The applicants are the developers of the Grouse Landing Subdivision. The .12cfs amount was recommended by their contractor to allow for culinary use and for heating and cooling of the home.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public water of the State of Idaho

11. Map of proposed point of diversion and place of use attached? [x]

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Ann H. Ulrich 3/9/2016 Mary M. Ulrich 3/10/16

Applicant

Received by _____ Date _____ Time _____ Preliminary check by _____
Publication prepared by _____ Date _____ Published in _____
Publication approved _____ Date _____

Receipt No. E041777

Date: 1/27/2016Received by: SC

RECEIVED

JAN 27 2016

Department of Water Resources
Eastern RegionSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

dent. No.

22-14204

1. Name of applicant(s) Thomas H. Ulrich and Mary M. Ulrich Phone (208) 520-9419
 Name connector (check one): ☒ and ☐ or ☐ and/or
 Mailing address 281 West Harvest Run City Idaho Falls
 State ID Zip 83404 Email thulrich01@gmail.com
2. Source of water supply Ground water which is a tributary of _____
3. Location of point(s) of diversion:

TWP	RGE	SEC	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
5N	46E	6			NW	SE	TETON	GROUND WATER	0063510

4. Water will be used for the following purposes:
 Amount .12 cfs (50 gpm) for Domestic purposes from 01/01 to 12/31 (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)
5. Total quantity to be appropriated is (a) .12 cfs cubic feet per second (cfs) and/or (b) _____ acre feet per year (af).
6. Proposed diverting works:
 a. Describe type and size of devices used to divert water from the source. Well and pump into water line.

 b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ No
 c. Proposed well diameter is 6 inches; proposed depth of well is 280 feet.
 d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☐ No
 e. If well is already drilled, when? 12/19/2013; drilling firm Denning Drilling;
 well was drilled for (well owner) Tom Ulrich; Drilling Permit No. 0063510.
7. Description of proposed uses (if irrigation only, go to item 8):
 a. Hydropower; show total feet of head and proposed capacity in kW. _____
 b. Stockwatering; list number and kind of livestock. _____
 c. Municipal; complete and attach the Municipal Water Right Application Checklist.
 d. Domestic; show number of households One household; For in-house use only for culinary and heating/cooling.
 e. Other; describe fully. _____

22 14204

8. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5N	46E	6														D			

Total number of acres to be irrigated: _____

9. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping?

This application is for in-house non-consumptive use only to be used for culinary and heating/cooling purposes.

Outside irrigation water is provided from the Teton West Irrigation Company (TWIC).

10. a. Who owns the property at the point of diversion? Bank of Commerce IRA Fund 8758 for benefit of Thomas Ulrich.
- b. Who owns the land to be irrigated or place of use? Applicant
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:
The IRA Fund is for the benefit of Thomas Ulrich (an applicant). See attached well use agreement & easement.

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary.

Applicants desire to use an existing domestic well to provide in-house water for their home on Lot 14 of the Grouse

Landing Subdivision, which is very close to the current domestic well that is used for fire protection in the subdivision.

The Applicants are the developers of the Grouse Landing Subdivision. The .12 cfs amount was recommended by their contractor to allow for culinary use and for heating and cooling of the home.

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).

13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.


Signature of Applicant

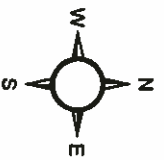
Thomas H. Ulrich
Print Name (and title, if applicable)


Signature of Applicant

Mary M. Ulrich
Print Name (and title, if applicable)

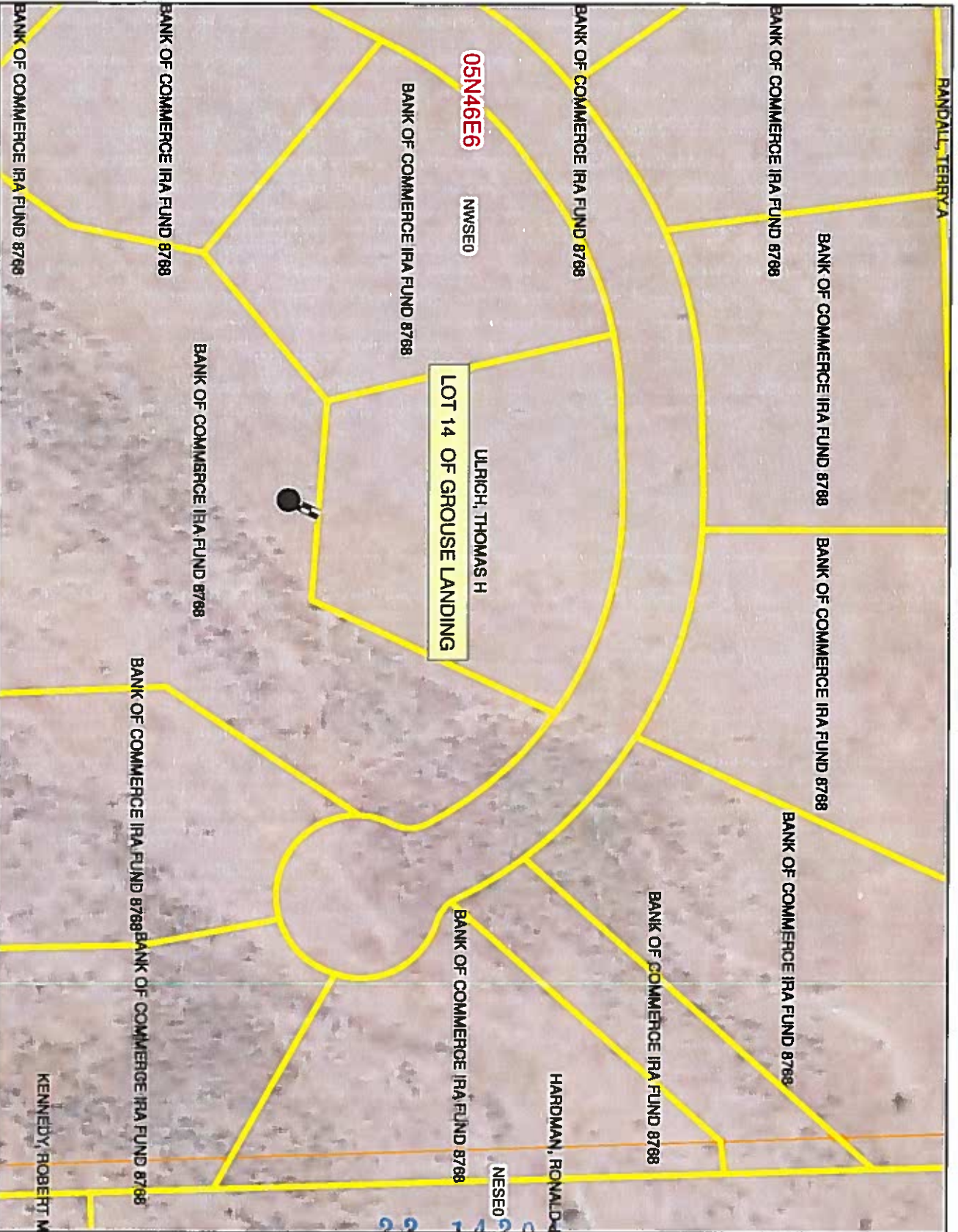
Received by SC Date 1/27/14 Time _____ Preliminary check by _____
Fee \$ 100- Receipted by SC Receipt No. 2041777 Date 1/27/14

ULRICH APPLICATION FOR PERMIT



Legend

- Well Location
- Easement
- parcels
- Section Lines
- Quarter-quarters



Prepared by:
Robert L. Harris
2013 NAIP Aerial Photo

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D 0063510

Drilling Permit No. _____

Water right or injection well # _____

2. OWNER: Tom UlrichName Tom UlrichAddress 281 West Harvest RunCity Idaho Falls State ID Zip 83403

3. WELL LOCATION:

Twp. 5 North ☒ or South ☐ Rge. 46 East ☒ or West ☐Sec. 6 1/4 NW 1/4 SE 1/4Gov't Lot _____ County TetonLat. 43 ° 47 217 (Deg. and Decimal minutes)Long. 111 ° 04 060 (Deg. and Decimal minutes)Address of Well Site ≈ 4500 N 1525 E

(Give at least name of road - Distance to Road or Landmark)

City DriggsLot. _____ Blk. _____ Sub. Name Grouse Landing

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material Bentonite From (ft) 0 To (ft) 40 Quantity (lbs or ft³) 1,600# Placement method/procedure 10" overshoe/10" casing

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
<u>6</u>	<u>+2</u>	<u>158</u>	<u>.250</u>	<u>Steel</u>	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 158'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 110 Static water level (ft) 110

Water temp. (°F) _____ Bottom hole temp. (°F) _____

Describe access port _____

Well test: _____ Test method: _____

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
<u>260</u>	<u>20</u>		☐	☐	☒	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
<u>10</u>	<u>0</u>	<u>3</u>	<u>overburden</u>		
	<u>3</u>	<u>40</u>	<u>Clay + Gravel</u>		
<u>8</u>	<u>40</u>	<u>70</u>	<u>Clay + Gravel</u>		
	<u>70</u>	<u>107</u>	<u>Grey clay, some Gravel</u>		
	<u>107</u>	<u>128</u>	<u>Soft drilling Rock</u>		
	<u>128</u>	<u>146</u>	<u>Fractured Rock</u>		
	<u>146</u>	<u>158</u>	<u>Rhyolite</u>		
<u>6</u>	<u>158</u>	<u>211</u>	<u>Rhyolite</u>		
	<u>211</u>	<u>280</u>	<u>Rhyolite w/ Fractures</u>		

RECEIVED

JAN 16 2014

Department of Water Resources
Eastern RegionCompleted Depth (Measurable): 280'Date Started: 12-16-13 Date Completed: 12-19-13

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Denning Drilling Co. No. 518*Principal Driller Denning Drilling Date 12-20-13

*Driller _____ Date _____

*Operator II John Hill Date 12-20-13

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

Thomas H. Ulrich
281 West Harvest Run
Idaho Falls, ID 83404

(Space Above for Recorder's Use)

QUITCLAIM DEED FOR EASEMENT

THIS INDENTURE is made this 17th day of November, 2015, by Bank of Commerce IRA Fund #8768 For The Benefit of Thomas H. Ulrich IRA, (the "Grantor"), and Thomas H. Ulrich and Mary M. Ulrich, husband and wife, whose mailing address is 281 West Harvest Run, Idaho Falls, Idaho 83404 (collectively the "Grantee").

WITNESSETH:

That the Grantor, for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) lawful money of the United States of America and other good and valuable consideration to Grantor in hand paid by the Grantee, the receipt whereof is hereby acknowledged, does by these presents remise, release and forever quitclaim unto the Grantee, and to Grantee's successors and assigns forever, the following described easement in the County of Teton, State of Idaho, to-wit:

Location: For the location of a well, pump, and attendant equipment, as well as a water mainline running in a northerly direction approximately 20 feet from the location of a constructed well identified by the Idaho Department of Water Resources by Tag No. D0063510 located in the NW1/4SE1/4 of Section 6, Township 05N, Range 46E, to the southern lot boundary of Lot 14 of Grouse Landing, according to the plat thereof recorded as Instrument No. 217869 in the records of Teton County, Idaho, the location of which is approximately depicted on the map attached hereto as Exhibit 1. Either Grantor or Grantee may have the location of the easement surveyed and thereafter described with a metes and bounds legal description. Such survey will be performed at the requesting party's sole cost and expense. The metes and bounds legal description may thereafter be recorded as a correction deed to this easement, but it is understood and agreed by the parties that the substituted metes and bounds legal description shall have no effect on the validity of this easement.

Scope: The easement shall extend three (3) feet on each side of the centerline of the pipeline (for a total width of six (6) feet) for installation of the pipeline and any necessary backfill, and shall also include an undefined, but reasonable and

necessary, width outside of said six (6) foot width for secondary rights of access for installation, repair, and maintenance of the water mainline as provided for under Idaho Code § 42-1102 and Idaho Code § 42-1204.

Benefitted Property: The easement and all rights and privileges incidental thereto are appurtenant to Grantee's land identified as Lot 14 of Grouse Landing, according to the plat thereof recorded as Instrument No. 217869 in the records of Teton County, Idaho.

TOGETHER, with the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, and any reversions, any remainders, and rents, issues and profits therefrom.

In construing this Quitclaim Deed and where the context so requires, the singular includes the plural.

IN WITNESS WHEREOF, the Grantor has executed the within instrument on the date set forth below.

"Grantor"

BANK OF COMMERCE

Jenna Clayton
Vice Pres & Trust Dept. Manager

_____ of the Bank of Commerce,
Trustee for Bank of Commerce IRA Fund #8768 for
the Benefit of Thomas H. Ulrich IRA

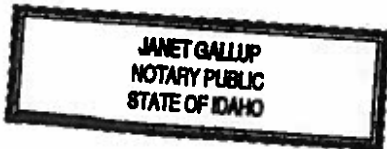
STATE OF IDAHO)
) ss:
COUNTY OF Idaho)

On this 17 day of November, 2015, before me, the undersigned, a notary public, in and for said State, personally appeared Jeana Clayton, known or identified to me to be the person whose name is subscribed to the within instrument as VP & Trust Dept. Mgr of Bank of Commerce, Trustee of the Bank of Commerce IRA Fund #8768 for the Benefit of Thomas H. Ulrich IRA and acknowledged to me that he or she executed the same on behalf of such Trustee.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

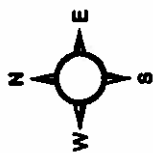
(SEAL)

Janet Gallup
Notary Public for Idaho
Residing at Idaho Falls, ID
Commission expires: April 15, 2019



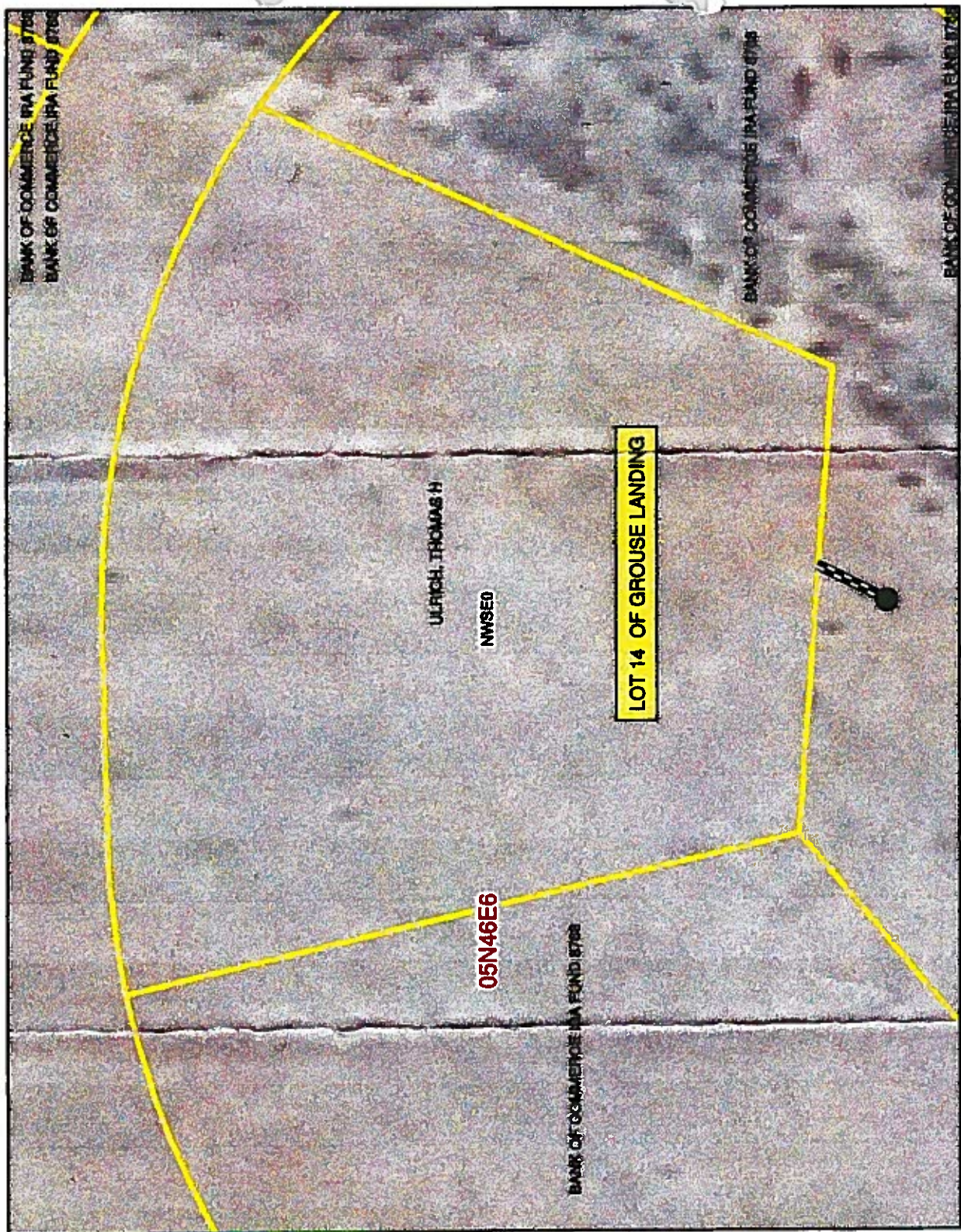
MY COMMISSION EXPIRES:
April 15, 2019

EXHIBIT 1



Legend

- Well Location
- ▬ Easement
- ▬ parcels
- ▬ Section Lines
- ▬ Quarter-quarters



Prepared by:
Robert L. Harris
2013 NAIP Aerial Photo

Instrument 8956

TETON COUNTY, IDAHO

11-20-2015 03:00:00 PM No. of Pages: 5

Recorded for : ULRICH, THOMAS

MARY LOU HANSEN

Fee: 22.00

Ex-Officio Recorder Deputy

Index to: AGREEMENT, WELL

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

Thomas H. Ulrich
281 West Harvest Run
Idaho Falls, ID 83404

(Space Above for Recorder's Use)

WELL AND PUMP USE AGREEMENT

THIS WELL AND PUMP USE AGREEMENT (this "Agreement") is made and executed this 17th day of November, 2015, by and between Bank of Commerce IRA Fund #8768 For The Benefit of Thomas H. Ulrich IRA, (the "IRA"), and Thomas H. Ulrich and Mary M. Ulrich, husband and wife, whose mailing address is 281 West Harvest Run, Idaho Falls, Idaho 83404 (collectively "Ulrich"). These parties are hereinafter collectively referred to as the "Parties" (individually, a "Party").

RECITALS:

- A. Ulrich is the developer of the Grouse Landing Subdivision, a subdivision recorded as Instrument No. 217869 in the records of Teton County, Idaho (the "Subdivision"). A portion of the property within the Subdivision is owned by the IRA.
- B. On September 30, 2015, the IRA conveyed ownership of Lot 14 of the Subdivision to Ulrich. Ulrich is now in the process of constructing a home on Lot 14.
- C. As part of the Subdivision's development, Ulrich, as the developer, constructed a well located on IRA property just south of Lot 14 to be used for fire suppression purposes to fill a fire suppression pond (the "Well"). The Well is identified on the records of the Idaho Department of Water Resources by Tag No. D0063510.
- D. To avoid the need to construct an additional domestic well on Ulrich's property, the Parties have agreed that Ulrich can use the Well to service Lot 14, subject to the provisions of this Agreement.

AGREEMENTS:

- 1. Ownership. Each Party shall be a 50% owner of the Well. In the event either Party abandons their interest in the Well by providing written notice to the other Party, then the other Party shall thereafter assume the ownership interest possessed at the time of abandonment by the abandoning Party.

2. Ownership of Underground Mainline. The underground mainline running from the Well to the IRA's pond shall be owned by the IRA. The underground mainline running from the Well to Lot 14 shall be owned by Ulrich. Each Party shall be entirely liable for and responsible for repair, maintenance, and operation of the underground mainline that runs to their respective properties.
3. Grant of Easement. The IRA shall execute an easement substantially in the form of **Exhibit 1** granting Ulrich an easement for their mainline and interest in the Well.
4. Installation of Meters. The IRA and Ulrich shall install meters on their respective mainlines running from the Well. Said meters must be capable of recording volume of water diverted through each Party's respective mainlines.
5. Sharing of Electrical Costs. Electricity costs associated with operation of the Well shall be shared between the Parties proportionate to each Party's water use. Each Party's share of the electrical bill shall be calculated by taking the metered amount of each Party's volumetric water use and dividing said amount by the total volumetric water usage diverted from the Well in order to determine a percentage of use. The percentage shall then be multiplied by the total electrical bill, and the amount calculated shall be each Party's share of the electrical bill. The water meters shall be read by the Well operator or another person on one of the following days: (1) the 1st day of each month; (2) the same day that the power company reads the electrical meter associated with the Well; (3) another day agreed to by the Parties.
6. Payment of Share of Electrical Costs. The IRA shall be designated as the entity responsible for receiving the electricity bill from the power company, and shall promptly pay such bill when due. The IRA shall inform Ulrich of their share of the electrical costs, and such share shall be paid by Ulrich within fourteen (14) days of being informed of said share of the electrical costs.
7. Repair, Replacement, and Maintenance Costs. Each party shall be responsible for repair, replacement, maintenance, and any other costs associated with the Well (except for electrical costs, which is described in paragraph 5) based on their proportionate ownership interests in the Well (50/50).
8. Decision Making by Unanimous Agreement. All decisions with respect to the plan of action for maintenance, repairs, rehabilitation and replacement of the Well shall be made only after unanimous agreement between the Parties, or the Parties shall proceed as outlined in paragraph 9 below.
9. Dispute Resolution If There Is a Failure to Agree. In the event the Parties cannot agree to the scope or extent of maintenance, repairs, rehabilitation and replacement of the Well, the following procedures shall govern:

- a. Each Party shall—at their sole cost and expense—employ a licensed engineer, a representative from a licensed well drilling company, or a pump repair company (the “Contractor”), to inspect the well(s) at issue and make recommendations on the work that should be performed in that person’s opinion.
 - b. In the event both Parties’ Contractors agree as to the recommended work that should be performed, then such recommended work shall be performed.
 - c. In the event the Parties’ Contractors disagree as to what work should be performed, the Parties’ Contractors shall agree to appoint a third Contractor and such third Contractor shall inspect the Well and analyze other relevant information associated with the situation to make a recommendation, and the recommendation of the third Contractor shall dictate the work to be performed. Each Party shall share the cost of hiring the third Contractor.
10. Additional Users of Well. No additional parties shall be entitled to use the Well for any purpose, unless the Parties unanimously agree otherwise in writing.
 11. Water Rights. Each Party shall be responsible for obtaining any necessary water rights under Idaho law to divert water from the Well to their respective properties.
 12. Severance. Should any Party decide to withdraw from use of the Well and elect to receive water from another pump and well or other water delivery system, the Party must give thirty (30) days notice to the other Party. The severing Party will be solely responsible for all costs associated with the severance, including, but not limited to, all excavation costs and other removal costs associated with the severance. If severance from the water system requires disturbing the property of another Party, the severing party shall restore the disturbed property to its previous condition, as nearly as practicable.
 13. Modification. This Agreement may not be modified, changed, discharged or terminated, except by a writing signed by all Parties.
 14. Entire Agreement. This Agreement constitutes the entire Agreement between the Parties with respect to the transactions contemplated herein.
 15. Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same document.
 16. Authority. Each Party warrants and represents that the individual executing this Agreement on behalf of the Party is duly and expressly authorized to so act on behalf of the persons and organizations he or she purports to represent, and each Party acknowledges that each other party hereby relies upon that warranty and representation.
 17. Governing Law. This Agreement shall be governed by the laws of the State of Idaho.

18. **Enforceability.** In the event that any one or more of the provisions of this Agreement shall for any reason be held to be invalid, illegal, or unenforceable, the same shall not affect any other provisions of this Agreement, but this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had not been contained herein.
19. **Waiver.** Acceptance by either Party of any performance less than required hereby shall not be deemed to be a waiver of the rights of such Party to enforce all of the terms and conditions hereof. No waiver of any such right hereunder shall be binding unless reduced to writing and signed by the Party to be charged therewith.
20. **Binding on Successors.** This Agreement shall be binding on the heirs, successors, administrators, executors and assigns of all parties hereto and shall run with Lot 14 of the Grouse Landing Subdivision (according to the plat thereof recorded as Instrument No. 217869 in the records of Teton County, Idaho) and the open space within the Grouse Landing Subdivision upon which the Well was constructed.
21. **Costs and Attorney's Fees.** If either Party commences any legal action or proceeding to enforce any of the terms of this Agreement (or for damages by reason of an alleged breach hereof), the prevailing party therein shall be entitled to recover from the other, in addition to any other relief granted, its reasonable attorney's fees, costs and expenses incidental to such legal action.

IN WITNESS WHEREOF the Parties hereto have hereunto set their hands and seals the day and year first above written.

"ULRICH"



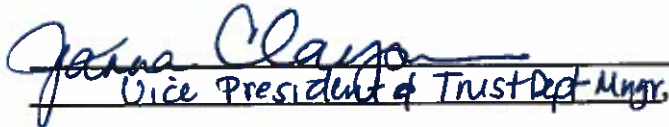
Thomas H. Ulrich



Mary M. Ulrich

"IRA"

BANK OF COMMERCE


Vice President & Trust Dept. Mgr.

_____ of the Bank of Commerce,
Trustee for Bank of Commerce IRA Fund #8768 for
the Benefit of Thomas H. Ulrich IRA

STATE OF IDAHO)

) ss.

County of Bonneville)

On this 17th day of November, 2015, before me a notary public in and for said State, personally appeared **Thomas H. Ulrich and Mary M. Ulrich**, husband and wife, known or identified to me (or proved to me on the oath of _____) to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(seal)



Dana M. Gneiting

Notary Public for Idaho

Residing at: Idaho Falls, ID

My commission expires: March 21, 2018

STATE OF IDAHO)

) ss:

COUNTY OF Bonneville)

On this 17 day of November, 2015, before me, the undersigned, a notary public, in and for said State, personally appeared Jeanna Clayson, known or identified to me to be the person whose name is subscribed to the within instrument as UP & Trust Dept of Bank of Commerce, Trustee of the Bank of Commerce IRA Fund #8768 for the Benefit of Thomas H. Ulrich IRA and acknowledged to me that he or she executed the same on behalf of such Trustee.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

(SEAL)



Janet Gallup
Notary Public for Idaho

Residing at IDAHO FALLS, ID

Commission expires: _____

MY COMMISSION EXPIRES:
April 15, 2019

Bullseye Heating and Cooling

710 S FANNING

Idaho Falls, ID 83401

208-403-6390

BLACKHAT150@MSN.COM

RECEIVED

FEB 25 2016

Estimate

Department of Water Resources
Eastern Region

Date	Estimate #
2/22/2016	211

Name / Address
TOM ULRICH

			Project
Description	Qty	Rate	Total
THIS IS FOR THE FOLLOWING; THE REQUIREMENTS FOR A GEO THERMAL UNIT FOR A HOME THAT SIZE WOULD REQUIRE 4-5 GPM PER TON. I WOULD RECOMMEND THAT A 20-25 GPM WOULD WORK FOR THAT UNIT. IF THERE ARE ANY QUESTIONS PLEASE GIVE ME A CALL AT 208-403-6390		0.00	0.00
		Total	\$0.00

22 14204

Savings, comfort, peace of mind. What's your destination?

Compass Series



Vertical Combination System

Multi-Positional

GeoComfort® Compass® Series geothermal systems are expertly designed to be technologically advanced, exceptionally efficient and uniquely crafted. Our combination systems merge a forced air heating and cooling system with the indulgence of whisper-quiet radiant floor heating in a single unit. This system allows your family to enjoy the comfort of floor-warming, hydronic heat in specific parts of your home while also delivering efficient forced air heating in other areas. As with all GeoComfort geothermal systems, air conditioning is also supplied by this single unit.



Other state or provincial credits may apply.

GeoComfort combines the most efficient technology with the most comfortable heat delivery method available.

Compass Series heating and cooling systems' industry leading design combines the highest quality features with an appliance grade cabinet. That combination provides an experience like no other, helping you make your home the most it can be.



www.geocomfort.com



Live comfortably.

Special Features:

- All aluminum microchannel air coils prevent corrosion, enhancing reliability and life expectancy.
- Hot water generator allows the capture of free, unused heat typically cutting hot water cost by 30-50%.
- Standard variable speed blower motor ensures quiet start up and operates at a fraction of the cost of a conventional blower motor.
- Hydronic heating function allows a single unit to provide forced air heating, forced air cooling, and radiant floor heat. Since you only need one unit, this reduces installation costs and minimizes system maintenance.



For additional peace of mind, ask your dealer about the GeoComfort standard warranty or the optional Limited Lifetime Microchannel Air Coil & Compressor warranty.



Unit Performance

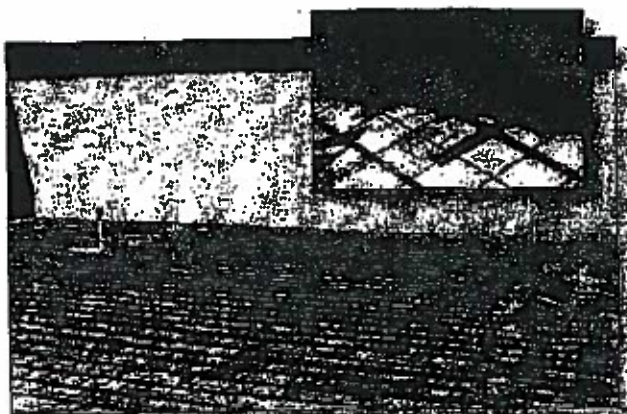
Model	Capacity	Cooling		Heating	
		Btu/hr	EER	Btu/hr	COP
GCT024	Full Load	24,500	20.0	19,700	4.2
	Part Load	20,900	27.3	15,700	4.5
GCT036	Full Load	38,600	18.3	28,600	4.1
	Part Load	29,100	24.8	22,400	4.6
GCT048	Full Load	49,000	17.1	38,000	3.9
	Part Load	37,400	24.1	29,700	4.3
GCT060	Full Load	61,300	17.4	46,500	3.7
	Part Load	48,000	24.4	36,400	4.1
GCT072	Full Load	70,500	16.2	55,700	3.6
	Part Load	57,000	22.0	46,500	4.0

Note:
Rated in accordance with ISO Standard 13256-1 which includes Pump Penalties.
Heating capacities based on 80.0°F DB, 59.0°F WB entering air temperature.
Cooling capacities based on 80.0°F DB, 68.2°F WB entering air temperature.
Entering water temperatures Full Load: 32°F heating / 77°F cooling.
Entering water temperatures Part Load: 41°F heating / 68°F cooling.

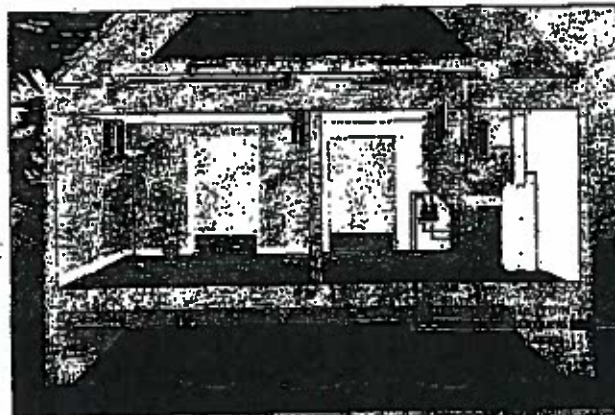
Unit Applications:

One of the many advantages the GeoComfort Compass Series Combination unit offers is the flexibility of applications designed for each home.

- Radiant Floor Heating
- Domestic Hot Water (Hot Water Generator)
- Forced Air Heating
- Forced Air Cooling



Example of radiant floor tubing installed in a basement. The tubing is placed over an insulation pad. Concrete is then poured over for the floor.



The above illustration depicts a typical combination system installation with forced air and radiant floor in heating mode. Other installation options are possible.

GeoComfort systems are built in the heart of America with stringent quality control systems and the most comprehensive testing within the geothermal heating and cooling industry.



Product specifications reflect available information at time of printing. Design and specifications may change without notice.
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Section 5: Unit Piping Installation

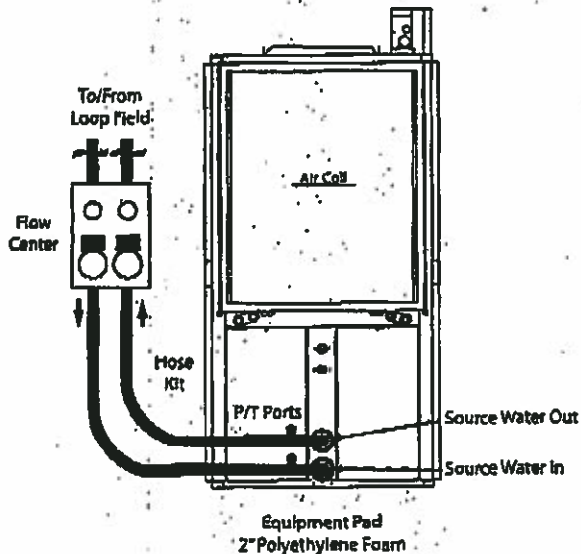
Interior Piping

All interior piping must be sized for proper flow rates and pressure loss. Insulation should be used on all inside piping when minimum loop temperatures are expected to be less than 50°F. Use the table below for insulation sizes with different pipe sizes. All pipe insulation should be a closed cell and have a minimum wall thickness of 3/8". All piping insulation should be glued and sealed to prevent condensation and dripping. Interior piping may consist of the following materials: HDPE, copper, brass, or rubber hose (hose kit only). **PVC is not allowed on pressurized systems.**

Table 3: Pipe Insulation

Piping Material	Insulation Description
1" IPS Hose	1-3/8" ID - 3/8" Wall
1" IPS PE	1-1/4" ID - 3/8" Wall
1-1/4" IPS PE	1-5/8" ID - 3/8" Wall
2" IPS PD	2-1/8" ID - 3/8" Wall

Figure 6: Typical Single Unit Piping Connection (Pressurized Flow Center)



Note: P/T ports should be angled away from the unit for ease of gauge reading.

Typical Pressurized Flow Center Installation

The flow centers are insulated and contain all flushing and circulation connections for residential and light commercial earth loops that require a flow rate of no more than 20 gpm. 1-1/4" fusion x 1" double o-ring fittings (AGA6PES) are furnished with the double o-ring flow centers for HDPE loop constructions. Various fittings are available for the double o-ring flow centers for different connections. See figure 6 for connection options. A typical installation will require the use of a hose kit. Matching hose kits come with double o-ring adapters to transition to 1" hose connection.

Note: Threaded flow centers all have 1" FPT connections. Matching hose kits come with the AGBA55 adapter needed to transition from 1" FPT to 1" hose.

Load Side Hydronic Buffer or Storage Tanks

Virtually all water-to-water heat pumps used for hydronic applications require a buffer tank to prevent equipment short cycling, and to allow lower flow rates through the water-to-water unit than through the hydronic delivery system. The following are considerations for buffer tank sizing.

- The size of the buffer tank should be determined based upon the predominant use of the water-to-water equipment (heating or cooling).
- The size of the buffer tank is based upon the lowest operating stage of the equipment. For example, a water-to-water heat pump with a two-stage compressor or two compressors may be sized for first stage capacity, reducing the size of the tank (two-stage aquastat required).
- Pressurized buffer tanks are sized differently than non-pressurized tanks (see guidelines listed below).

Section 5: Unit Piping Installation

Typical Non-Pressurized Flow Center Installation

Standing column flow centers are designed to operate with no static pressure on the earth loop. The design is such that the column of water in the flow center is enough pressure to prime the pumps for proper system operation and pump reliability. The flow center does have a cap/seal, so it is still a closed system, where the fluid will not evaporate. If the earth loop header is external, the loop system will still need to be

flushed with a purge cart. The non-pressurized flow center needs to be isolated from the flush cart during flushing because the flow center is not designed to handle pressure. Since this is a non-pressurized system, the interior piping can incorporate all the above-mentioned pipe material options (see interior piping), including PVC. The flow center can be mounted to the wall with the included bracket or mounted on the floor as long as it is properly supported.

Figure 7: Typical Single Unit Piping Connection (Non-Pressurized Flow Center)

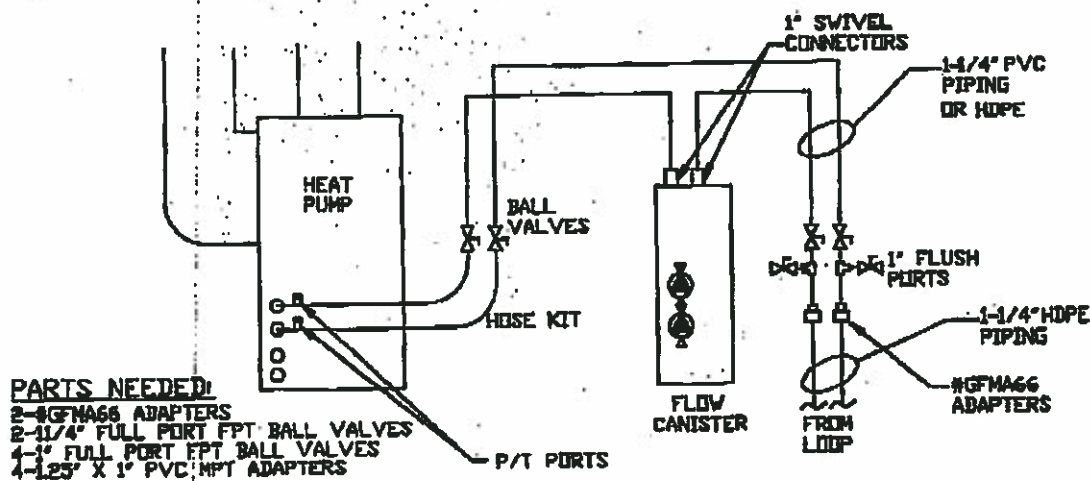
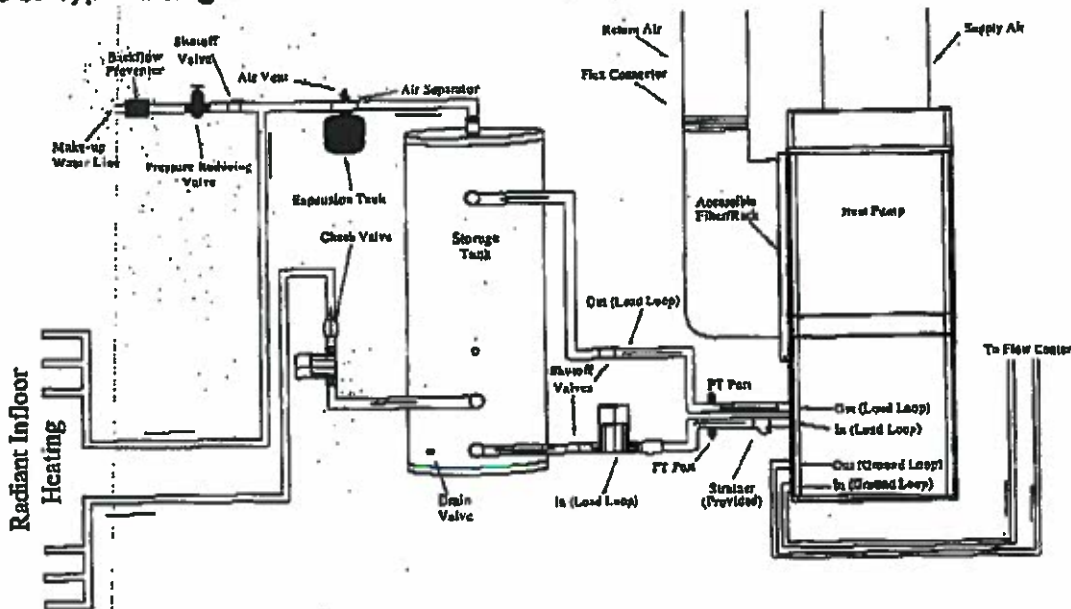
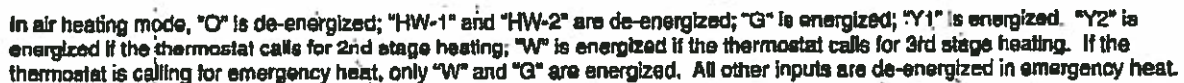


Figure 8: Typical Single Combination Unit Piping Connection



Unit Operation:
Air Heating Mode (Water-to-Air)

Red text indicates thermostat inputs or aquastat inputs. "HW" is the aquastat input. "HW-1" and "HW-2" are always activated together, and act as a single output from a control standpoint.

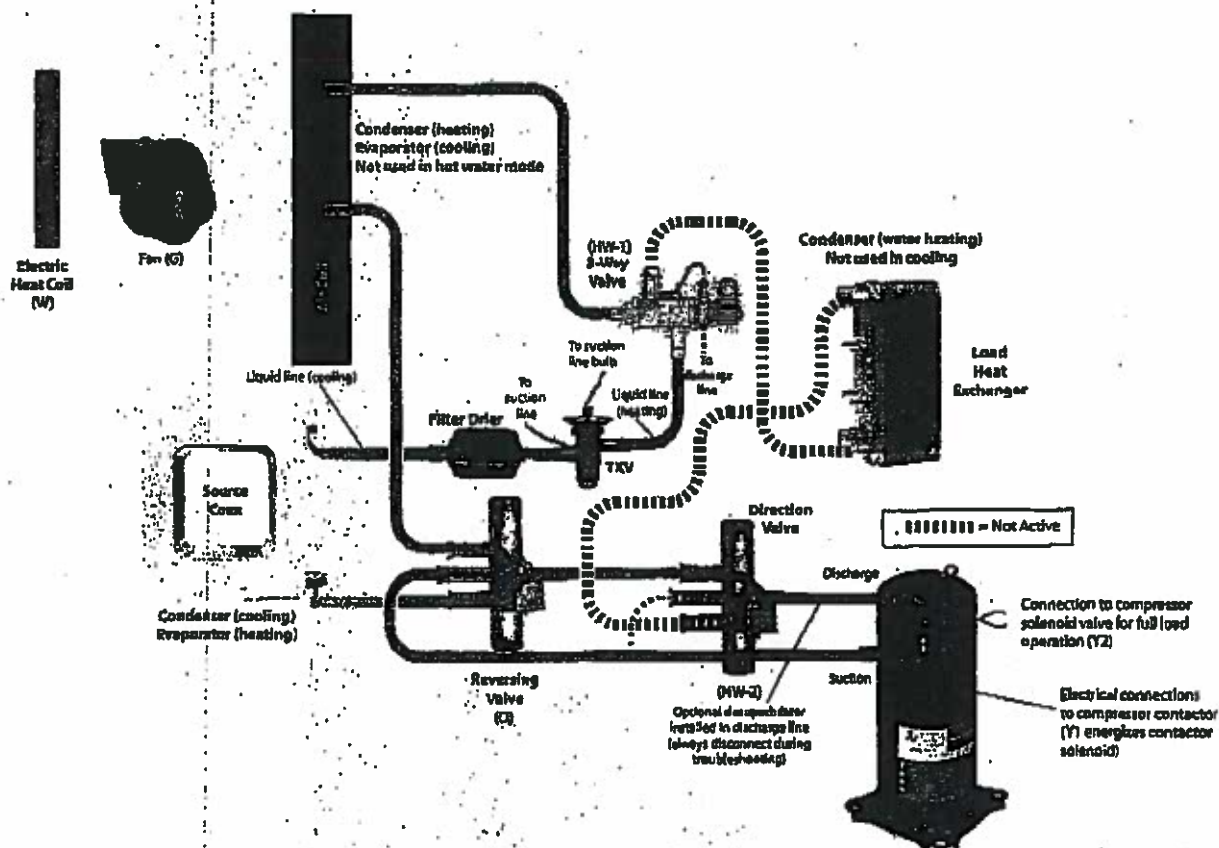


Section 8: Unit Operating Modes

Unit Operation: Air Cooling Mode (Water-to-Air)

NOTES:

Red text indicates thermostat inputs or aquastat inputs. "HW" is the aquastat input. "HW-1" and "HW-2" are always activated together, and act as a single output from a control standpoint.



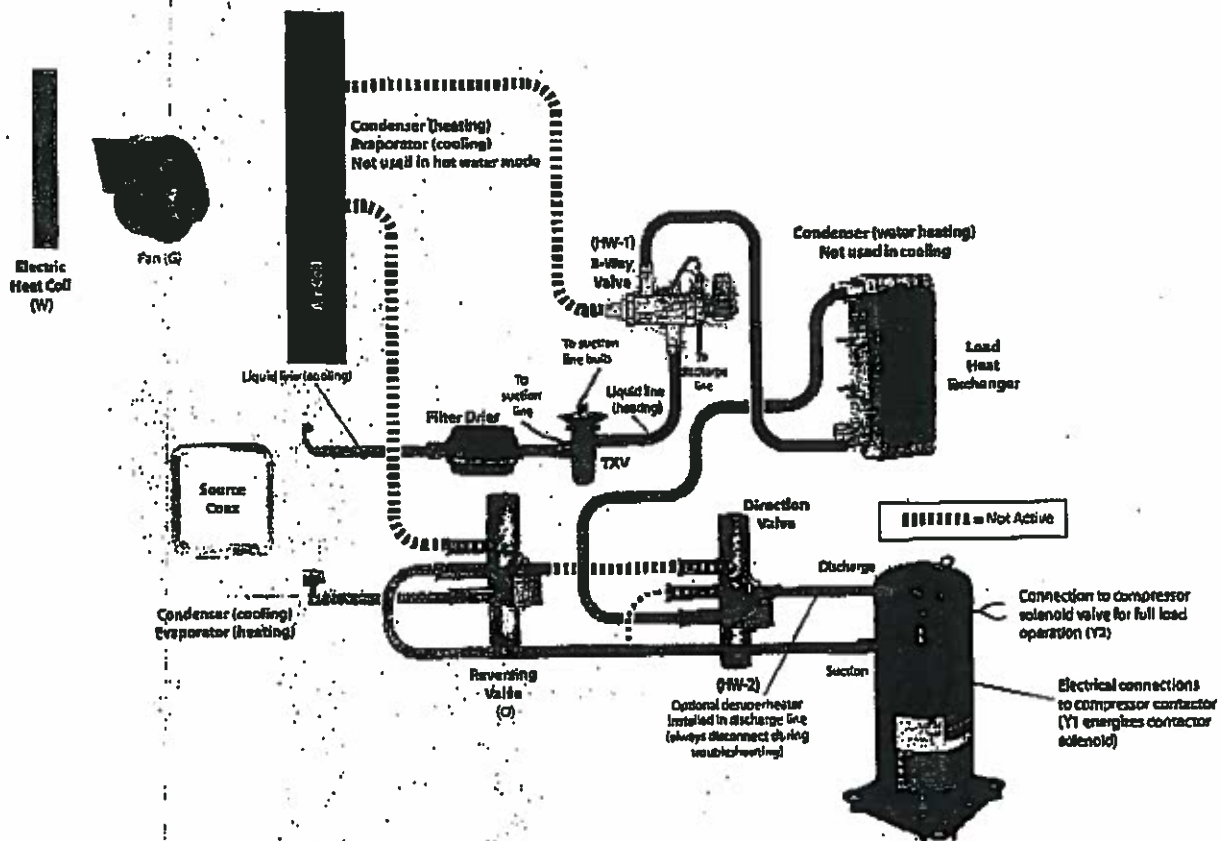
In air cooling mode, "O" is energized; "HW-1" and "HW-2" are de-energized; "G" is energized; "Y1" is energized. "Y2" is energized if the thermostat calls for 2nd stage cooling.

Section 8: Unit Operating Modes

Unit Operation: Water Heating Mode (Water-to-Water)

NOTES:

Red text indicates thermostat inputs or aquastat inputs. "HW" is the aquastat input. "HW-1" and "HW-2" are always activated together, and act as a single output from a control standpoint.



In water heating mode (aqua-stat input), "O" is de-energized; "HW-1" and "HW-2" are energized; "G" is de-energized; "Y1" and "Y2" are energized; "W" is de-energized. If the control is set to "hot water priority with electric heat," "W" and "G" may be energized if there is a simultaneous heating call from the thermostat and the aqua-stat. The refrigerant circuit is not capable of chilled water operation. "O" is never energized during water heating mode.

Section 12: Model 060 Performance Data: 5.0 Ton, Full Load, Heating

EWT °F	Flow GPM	WPD		LWT °F	Heating									
		PSI	FT		Airflow CFM	LAT °F	HC MBtu/h	HE MBtu/h	KW	COP W/W	Discharge PSIG	Suction PSIG	Subcooling °F	Superheat °F
25	15.0	10.5	24.3	20.8	1700	93.6	43.4	30.2	3.88	3.28	301.7	65.7	26.9	3.3
				20.7	1850	92.4	44.7	31.4	3.90	3.36	301.3	65.6	26.8	3.3
30	7.5	3.6	8.2	21.6	1700	93.9	43.8	30.6	3.87	3.32	305.8	66.6	29.8	4.8
				21.3	1850	92.6	45.1	31.8	3.90	3.39	305.4	66.6	29.7	4.7
				24.1	1700	95.4	46.6	33.1	3.95	3.46	313.6	71.3	28.2	3.6
				23.8	1850	94.0	48.0	34.5	3.97	3.54	313.2	71.2	28.1	3.6
	11.5	6.7	15.4	25.3	1700	95.9	47.5	34.0	3.96	3.52	315.4	73.5	26.3	3.0
				25.1	1850	94.5	48.9	35.3	3.99	3.59	315.0	73.5	26.2	3.0
40	7.5	3.3	7.6	29.9	1700	97.4	50.3	36.7	4.00	3.69	321.9	81.1	27.4	3.7
				29.6	1850	95.9	51.8	38.0	4.03	3.77	321.5	81.1	27.3	3.7
	11.5	6.2	14.3	32.9	1700	99.1	53.5	39.6	4.08	3.84	330.1	86.8	25.3	3.3
				32.6	1850	97.6	55.1	41.1	4.11	3.93	329.7	86.7	25.3	3.2
	15.0	9.4	21.7	34.4	1700	99.7	54.5	40.5	4.10	3.90	332.0	89.6	23.4	3.0
				34.2	1850	98.1	56.2	42.1	4.12	4.00	331.6	89.5	23.3	3.0
50	7.5	3.1	7.1	38.3	1700	100.9	56.8	42.6	4.15	4.01	338.6	96.3	24.9	3.6
				37.8	1850	99.3	58.5	44.3	4.17	4.11	338.2	96.3	24.9	3.5
	11.5	5.8	13.3	41.8	1700	102.9	60.4	46.0	4.23	4.18	347.2	103.0	22.6	3.9
				41.4	1850	101.2	62.3	47.8	4.25	4.30	346.7	103.0	22.5	3.9
	15.0	8.7	20.1	43.5	1700	103.6	61.6	47.1	4.24	4.26	349.2	106.3	20.4	3.9
				43.3	1850	101.7	63.4	48.8	4.27	4.35	348.7	106.3	20.3	3.9
60	7.5	2.8	6.6	46.6	1700	104.7	63.7	48.9	4.33	4.31	360.2	112.8	23.2	4.2
				46.1	1850	102.8	65.6	50.7	4.36	4.41	359.8	112.7	23.2	4.2
	11.5	5.3	12.3	50.3	1700	106.9	67.8	52.8	4.41	4.51	369.4	120.7	20.6	5.3
				50.2	1850	105.0	69.9	54.8	4.44	4.61	368.9	120.6	20.5	5.2
	15.0	8.1	18.7	52.6	1700	107.6	69.1	54.0	4.43	4.57	371.5	124.5	18.2	5.7
				52.3	1850	105.6	71.2	56.0	4.46	4.68	371.0	124.4	18.1	5.7
70	7.5	2.7	6.2	54.8	1700	108.5	70.7	55.2	4.54	4.56	383.2	131.0	21.9	5.2
				54.3	1850	106.4	72.8	57.2	4.57	4.67	382.7	130.9	21.8	5.3
	11.5	5.0	11.6	59.4	1700	111.0	75.2	59.4	4.63	4.76	392.9	140.1	18.9	7.1
				59.0	1850	108.8	77.5	61.6	4.66	4.87	392.4	140.0	18.8	7.0
	15.0	7.6	17.5	61.7	1700	111.7	76.6	60.7	4.65	4.83	395.2	144.6	16.3	7.8
				61.4	1850	109.5	78.9	62.9	4.68	4.94	394.7	144.5	16.2	7.8
80	7.5	2.6	5.9	63.2	1700	112.1	77.3	61.0	4.77	4.75	403.5	150.8	20.4	6.4
				62.6	1850	109.8	79.6	63.2	4.80	4.86	403.0	150.7	20.3	6.4
	11.5	4.8	11.1	68.2	1700	114.8	82.2	65.6	4.87	4.95	413.8	161.3	17.2	8.9
				67.8	1850	112.4	84.7	68.0	4.89	5.08	413.2	161.2	17.1	8.8
	15.0	7.3	16.7	70.8	1700	115.6	83.7	67.0	4.88	5.03	416.1	166.4	14.3	10.0
				70.4	1850	113.2	86.3	69.5	4.91	5.15	415.6	166.3	14.2	9.9
90	7.5	2.4	5.6	71.6	1700	115.7	83.9	66.8	5.01	4.91	424.3	171.3	19.0	8.0
				71.0	1850	113.2	86.4	69.2	5.04	5.02	423.8	171.2	18.9	7.9
	11.5	4.6	10.6	77.1	1700	118.6	89.2	71.8	5.11	5.12	435.1	183.2	15.6	11.1
				76.7	1850	116.0	91.9	74.4	5.14	5.24	434.5	183.1	15.5	11.0
	15.0	7.0	16.0	79.9	1700	119.5	90.9	73.4	5.13	5.19	437.6	189.1	12.6	12.4
				79.5	1850	116.9	93.7	76.1	5.16	5.32	437.0	188.9	12.5	12.4

Heating data based on 70 °F EAT. See Correction Factors at end of section for different conditions

LWT is based on 15% (by volume) methanol antifreeze solution only or 485 multiplier

Performance data accurate within ± 10%

Discharge pressure is ± 20 PSI; Suction pressure is ± 10 PSI

Subcooling is ± 5 °F; Superheat is ± 6 °F

**Section 12: Model 060 Performance Data: 5.0 Ton,
Full Load, Cooling**

EWT °F	Flow GPM	WPD		LWT °F	Cooling										
		PSI	FT		Airflow CFM	YC MBtu/h	SC MBtu/h	S/T	HR MBtu/h	kW	EER Btu/h/W	Discharge PSIG	Suction PSIG	Subcooling °F	Superheat °F
50	7.5	2.6	6.0	71.7	1750	67.7	43.1	0.64	78.8	3.25	20.8	238.3	124.2	27.8	13.8
				72.1	1950	68.8	45.6	0.66	80.4	3.40	20.2	239.1	129.5	28.0	13.5
	11.5	5.3	12.2	64.1	1750	68.0	43.3	0.64	78.5	3.07	22.1	218.8	123.5	23.1	14.3
				64.4	1950	69.2	45.8	0.66	80.1	3.20	21.6	219.6	128.9	23.2	13.9
	15.0	8.2	19.0	60.7	1750	68.0	43.4	0.64	78.2	2.99	22.7	210.7	123.5	20.9	14.5
				61.0	1950	69.2	45.9	0.66	79.9	3.13	22.1	211.4	128.8	21.1	14.2
60	7.5	2.4	5.6	81.6	1750	66.4	42.5	0.64	78.4	3.51	18.9	274.0	126.5	28.0	10.5
				82.0	1950	67.5	44.9	0.67	80.0	3.67	18.4	274.9	132.0	28.2	10.0
	11.5	4.9	11.4	74.0	1750	66.7	42.7	0.64	78.0	3.31	20.2	251.6	125.8	23.0	10.9
				74.3	1950	67.9	45.1	0.66	79.7	3.46	19.6	252.4	131.3	23.2	10.5
	15.0	7.7	17.7	70.7	1750	66.7	42.8	0.64	77.7	3.23	20.7	242.2	125.8	20.7	11.1
				70.9	1950	67.9	45.3	0.67	79.4	3.38	20.1	243.0	131.2	20.9	10.7
70	7.5	2.3	5.2	91.4	1750	64.8	41.8	0.65	77.8	3.80	17.1	311.8	128.8	27.8	7.6
				91.9	1950	66.0	44.2	0.67	79.5	3.97	16.6	312.8	134.4	27.9	7.0
	11.5	4.6	10.6	83.9	1750	65.1	42.0	0.65	77.3	3.58	18.2	286.3	128.1	22.8	8.0
				84.2	1950	66.3	44.4	0.67	79.1	3.74	17.7	287.3	133.7	22.9	7.5
	15.0	7.2	16.5	80.6	1750	65.2	42.1	0.65	77.1	3.49	18.7	275.7	128.1	20.4	8.2
				80.8	1950	66.3	44.5	0.67	78.8	3.65	18.2	276.6	133.6	20.6	7.7
80	7.5	2.2	5.0	101.0	1750	62.3	40.8	0.65	76.4	4.13	15.1	354.6	131.2	27.3	7.1
				101.5	1950	63.4	43.1	0.68	78.1	4.31	14.7	355.8	136.9	27.4	6.6
	11.5	4.4	10.1	93.6	1750	62.6	41.0	0.65	75.9	3.89	16.1	325.6	130.5	22.6	7.6
				93.9	1950	63.7	43.3	0.68	77.6	4.07	15.7	326.7	136.2	22.7	7.1
	15.0	6.8	15.7	90.4	1750	62.6	41.1	0.66	75.6	3.80	16.5	313.5	130.5	20.3	7.8
				90.6	1950	63.7	43.4	0.68	77.2	3.97	16.0	314.6	136.1	20.4	7.3
90	7.5	2.1	4.8	110.5	1750	59.1	39.5	0.67	74.6	4.53	13.0	402.7	133.7	26.4	7.8
				111.0	1950	60.1	41.8	0.70	76.3	4.74	12.7	404.1	139.4	26.6	7.4
	11.5	4.2	9.7	103.3	1750	59.4	39.7	0.67	74.0	4.27	13.9	369.8	132.9	22.1	8.3
				103.6	1950	60.4	42.0	0.70	75.6	4.46	13.5	371.1	138.7	22.2	7.8
	15.0	6.5	15.1	100.1	1750	59.4	39.8	0.67	73.6	4.17	14.2	356.1	132.9	19.9	8.5
				100.4	1950	60.5	42.1	0.70	75.4	4.36	13.9	357.3	138.6	20.1	8.1
100	7.5	2.0	4.6	120.0	1750	55.8	38.1	0.68	72.9	5.01	11.1	454.9	136.1	25.4	7.8
				120.5	1950	56.8	40.3	0.71	74.7	5.24	10.8	456.5	141.9	25.5	7.3
	11.5	4.0	9.3	112.9	1750	56.1	38.3	0.68	72.2	4.72	11.9	417.8	135.3	21.0	8.3
				113.3	1950	57.1	40.5	0.71	74.0	4.94	11.6	419.2	141.2	21.1	7.8
	15.0	6.3	14.5	109.9	1750	56.1	38.4	0.68	71.8	4.81	12.2	402.2	135.3	18.9	8.5
				110.1	1950	57.1	40.6	0.71	73.5	4.82	11.8	403.6	141.1	19.1	8.0
110	7.5	1.9	4.5	129.5	1750	52.3	36.5	0.70	71.1	5.52	9.5	509.3	138.5	25.0	8.2
				130.0	1950	53.2	38.6	0.73	72.9	5.76	9.2	511.0	144.4	25.2	7.8
	11.5	3.9	9.0	122.5	1750	52.5	36.7	0.70	70.2	5.20	10.1	467.7	137.7	19.6	8.7
				122.9	1950	53.5	38.8	0.73	72.1	5.44	9.8	469.2	143.7	19.8	8.3
	15.0	6.1	14.1	119.6	1750	52.6	36.8	0.70	69.9	5.08	10.4	450.3	137.7	17.4	8.9
				119.8	1950	53.5	38.9	0.73	71.6	5.31	10.1	451.8	143.6	17.6	8.5

Cooling data based on 80/67 °F EAT. See Correction Factors at end of section for different conditions

LWT is based on 15% (by volume) methanol antifreeze solution only or 485 multiplier

Performance data accurate within ± 10%

Discharge pressure is ± 20 PSI; Suction pressure is ± 10 PSI

Subcooling is ± 5 °F; Superheat is ± 6 °F

Section 12: Model 060D Performance Data: 5.0 Ton, Full Load Hydronic Heating

Source Water					Load Water					Heating							
EWT °F	Flow GPM	WFO		LWT °F	ΔT °F	Flow GPM	WPD		LT °F	HC MBtuh	HE MBtuh	KW	COP W/W	Discharge PSIG	Suction PSIG	Subcooling °F	Superheat °F
25	19.0	10.9	23.8	21.1	85	15.0	4.8	11.1	90.9	40	28.1	3.50	2.85	335.4	59.8	11.5	12.7
				21.6	95		4.7	10.9	100.1	38.4	24.9	3.96	2.84	381.5	60.9	18.1	12.5
				22.0	110		4.4	10.2	115.1	37.9	21.7	4.75	2.34	454.9	61.8	17.5	12.1
				22.8	85		4.8	11.1	90.5	40.9	28.1	3.74	3.20	362.1	69.2	13.0	7.7
30	7.5	2.8	7.6	23.2	95	4.7	10.9	100.2	39.3	24.9	4.23	2.72	412.0	70.1	14.1	7.4	
				24.1	110	4.4	10.2	115.2	38.8	22.3	3.87	2.34	491.2	71.6	19.1	7.0	
				24.6	85	4.8	11.1	90.7	42.5	30.3	3.60	3.47	349.4	72.9	12.1	7.3	
				25.2	95	4.7	10.9	100.4	40.8	26.9	4.07	2.94	387.3	73.9	18.4	7.1	
	11.5	6.9	13.9	25.8	110	4.4	10.2	115.4	40.4	23.7	4.88	2.43	473.9	75.4	18.1	6.7	
				26.6	85	4.8	11.1	90.9	44.1	32.0	3.55	3.84	342.8	75.2	12.2	6.7	
				26.1	95	4.7	10.9	100.6	42.3	28.8	4.02	3.08	390.0	76.2	13.6	6.5	
				28.9	110	4.4	10.2	115.6	41.8	25.4	4.82	2.94	466.0	77.4	18.2	6.1	
	15.0	10.1	23.2	30.6	85	4.8	11.1	91.3	47.2	34.2	3.81	3.83	370.1	84.1	9.1	6.6	
				31.6	95	4.7	10.9	101.0	45.9	30.6	4.80	3.09	421.0	85.3	9.7	6.5	
				32.5	110	4.4	10.2	118.0	44.8	27.2	5.16	3.54	502.0	87.1	14.6	6.2	
				33.4	85	4.8	11.1	91.3	49.1	36.8	3.67	3.92	357.0	88.2	8.3	6.9	
40	7.5	3.0	7.0	34.1	95	4.7	10.9	101.3	47.1	33.0	4.34	3.39	406.2	89.8	9.1	6.8	
				34.7	110	4.4	10.2	116.2	46.6	29.8	4.97	2.75	484.3	91.8	13.6	6.6	
				34.9	85	4.8	11.1	91.8	50.9	38.3	3.62	4.12	350.3	91.6	8.4	6.5	
				35.2	95	4.7	10.9	101.5	48.8	34.9	4.08	3.41	398.5	92.7	9.4	6.4	
	11.5	6.3	14.8	35.7	110	4.4	10.2	116.4	48.3	31.8	4.80	2.89	475.1	94.7	13.7	6.2	
				39.0	85	4.8	11.1	92.1	53.3	40.1	3.87	4.04	377.8	98.5	3.6	7.2	
				40.0	95	4.7	10.9	101.8	51.2	36.3	4.37	3.43	418.8	98.8	5.8	7.1	
				41.0	110	4.4	10.2	118.7	50.6	32.7	5.25	2.82	512.5	102.0	10.8	7.0	
	15.0	9.3	21.3	42.3	85	4.8	11.1	92.4	53.5	42.8	3.73	4.26	364.5	108.9	4.0	8.1	
				43.0	95	4.7	10.9	102.1	53.2	38.8	4.21	3.70	416.7	105.3	5.3	8.1	
				43.7	110	4.4	10.2	117.0	52.0	35.4	5.05	3.09	494.4	107.5	9.7	8.1	
				43.8	85	4.8	11.1	92.7	57.5	44.9	3.68	4.38	367.6	107.3	5.1	7.9	
50	7.5	2.8	4.4	44.4	95	4.7	10.9	102.3	55.1	40.9	4.18	3.89	406.8	108.6	5.7	7.9	
				44.8	110	4.4	10.2	117.9	54.5	37.5	4.98	3.21	485.1	110.9	9.9	7.9	
				47.4	85	4.8	11.1	92.9	59.5	46.0	3.95	4.41	388.0	116.9	4.8	6.9	
				48.3	95	4.7	10.9	102.6	57.1	41.9	4.46	3.75	441.9	118.4	5.0	7.0	
	11.5	5.8	13.4	49.5	110	4.4	10.2	117.5	56.4	38.1	5.36	3.08	516.2	120.8	10.3	7.0	
				51.2	85	4.8	11.1	93.3	61.9	48.9	3.80	4.77	374.8	122.1	4.3	8.4	
				52.0	95	4.7	10.9	102.9	59.3	44.6	4.80	4.04	425.8	124.8	4.5	8.5	
				52.8	110	4.4	10.2	117.8	58.7	42.1	5.16	3.33	507.7	127.5	9.2	8.7	
	15.0	8.3	19.8	52.9	85	4.8	11.1	93.5	64.1	51.3	3.75	5.01	367.2	127.1	4.8	8.5	
				54.0	95	4.7	10.9	103.1	61.5	47.0	4.24	4.25	417.7	128.8	4.9	8.6	
				54.0	110	4.4	10.2	118.1	60.8	43.4	5.09	3.50	498.1	131.5	9.3	8.8	
				55.9	85	4.8	11.1	93.7	66.1	51.3	4.03	4.79	397.6	133.8	5.4	8.3	
60	7.5	2.6	6.0	57.1	95	4.7	10.9	103.3	62.5	47.0	4.55	4.03	452.1	135.8	5.5	8.4	
				58.1	110	4.4	10.2	118.1	61.8	48.2	5.16	3.32	500.3	138.5	11.8	8.7	
				60.2	85	4.8	11.1	94.0	67.7	54.5	3.88	5.11	383.6	141.1	4.8	10.4	
				61.0	95	4.7	10.9	103.7	63	50.1	4.38	4.85	458.4	142.8	8.0	10.8	
	11.5	5.4	22.5	61.7	110	4.4	10.2	118.4	64.2	46.3	5.26	3.58	520.1	146.0	10.1	11.0	
				62.2	85	4.8	11.1	94.4	70.2	57.1	3.88	5.37	376.3	146.5	6.1	10.7	
				62.8	95	4.7	10.9	104.0	67.3	52.6	4.32	4.57	428.1	147.5	5.3	10.9	
				63.3	110	4.4	10.2	118.9	64.9	48.8	5.19	3.76	510.5	150.6	10.2	11.3	
	15.0	7.3	17.3	64.7	85	4.8	11.1	94.7	70.2	57.1	3.88	5.37	376.3	146.5	6.1	10.7	
				67.8	95	4.7	10.9	104.0	67.3	52.6	4.32	4.57	428.1	147.5	5.3	10.9	
				68.3	110	4.4	10.2	118.9	64.9	48.8	5.19	3.76	510.5	150.6	10.2	11.3	
				69.7	85	4.8	11.1	94.9	69.8	55.8	4.09	5.00	403.9	154.6	5.2	12.7	
70	7.5	2.3	5.3	68.0	95	4.7	10.9	103.9	66.9	51.1	4.62	4.24	459.5	146.5	8.1	12.9	
				69.4	110	4.4	10.2	118.8	66.2	47.3	5.54	3.50	547.8	149.6	11.8	13.3	
				70.7	85	4.8	11.1	94.7	72.8	59.2	3.94	5.40	388.7	152.4	4.6	13.8	
				70.9	95	4.7	10.9	104.3	69.8	54.4	4.48	4.58	448.3	154.4	4.7	15.8	
	11.5	4.8	11.1	71.5	110	4.4	10.2	119.2	68.8	50.6	5.34	3.78	526.5	157.7	10.1	16.3	
				72.5	85	4.8	11.1	95.0	75.2	62.0	3.88	5.68	387.3	157.2	4.9	16.0	
				72.2	95	4.7	10.9	104.6	72.1	57.1	4.39	4.83	484.9	159.3	5.1	16.4	
				72.7	110	4.4	10.2	119.5	71.8	53.4	5.28	3.97	518.5	162.7	10.1	16.9	
	15.0	7.1	16.3	73.5	85	4.8	11.1	94.9	74.3	60.1	4.19	5.25	410.0	164.8	5.4	17.5	
				74.8	95	4.7	10.9	104.5	71.2	55.2	4.69	4.45	466.4	158.8	5.6	17.9	
				75.9	110	4.4	10.2	119.4	70.4	51.2	5.62	3.87	536.1	160.3	11.8	18.4	
				78.8	85	4.8	11.1	95.3	77.2	63.6	3.99	5.87	388.8	162.1	4.9	20.9	
90	7.5	2.2	5.1	79.5	95	4.7	10.9	104.9	74.1	58.7	4.51	4.82	450.0	165.8	5.0	21.4	
				80.2	110	4.4	10.2	119.8	73.2	54.7	5.43	3.97	536.5	168.8	10.8	22.1	
				80.8	85	4.8	11.1	95.7	80	68.6	3.94	5.85	388.0	168.3	5.2	21.7	
				81.5	95	4.7	10.9	105.2	76.7	61.5	4.45	5.05	441.4	170.6	9.4	22.2	
	11.5	4.6	10.5	82.1	110	4.4	10.2	120.1	75.9	57.7	5.34	4.17	526.3	174.2	10.7	22.8	

LWT is based on 15% (by volume) methanol antifreeze solution only or 485 multiplier

LT is based on water only or 900 multiplier

Performance data accurate within ± 10%

Discharge pressure is ± 20 PSI; Suction pressure is ± 10 PSI

Subcooling is ± 8 °F; Superheat is ± 6 °F



State of Idaho

DEPARTMENT OF WATER RESOURCES

900 N Skyline Dr., Ste A, Idaho Falls, Idaho 83402-1718

Phone: (208) 525-7161 FAX: (208) 525-7177 www.idwr.idaho.gov

March 30, 2016

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

THOMAS H ULRICH
MARY M ULRICH
281 W HARVEST RUN
IDAHO FALLS, ID 83404

Application For Permit No. 22-14204

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the TETON VALLEY NEWS on 4/7/2016 and 4/14/2016. Protests to this application may be submitted for a period ending ten (10) days after the second publication.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

Judea Jones
Administrative Assistant

Cox, Sharla

From: Cox, Sharla
Sent: Wednesday, March 30, 2016 4:11 PM
To: 'Teton Valley News (office@tetonvalleynews.net)'
Subject: Legal Notice for Your Newspaper
Attachments: Teton Valley Cover Letter.doc

Contacts: Teton Valley News

Sharla

*Sharla Cox
Administrative Assistant
Idaho Dept of Water Resources
900 N Skyline Dr. Ste A.
Idaho Falls ID 83402
sharla.cox@idwr.idaho.gov
208-525-7161 phone
208-525-7177 fax*

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

22-14204

THOMAS H ULRICH

MARY M ULRICH

281 W HARVEST RUN

IDAHO FALLS, ID 83404

Point of Diversion NWSE

S6 T05N R46E

TETON County

Source GROUND WATER Tributary

Use: COOLING

01/01 to 12/31 0.08 CFS

Use: DOMESTIC

01/01 to 12/31 0.04 CFS

Use: HEATING

01/01 to 12/31 0.08 CFS

Total Diversion: 0.12 CFS

Date Filed: 1/27/2016

Place Of Use: COOLING

T05N R46E S6 NWSE

Place Of Use: DOMESTIC

T05N R46E S6 NWSE

Place Of Use: HEATING

T05N R46E S6 NWSE

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Eastern Region office at (208) 525-7161. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Eastern Region, 900 N Skyline Dr Ste A, Idaho Falls ID 83402 together with a protest fee of \$25.00 for each application on or before 4/25/2016. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 4/7/2016 and 4/14/2016



Holden Kidwell
Hahn & Crapo P.L.L.C.
LAW OFFICES

RECEIVED
FEB 25 2016

Department of Water Resources
1000 Riverside Blvd., Suite 200
Eastern Platte
PO Box 50130
Idaho Falls, Idaho 83405

Tel: (208) 523-0620
Fax: (208) 523-9518
www.holdenlegal.com
Email: harris@holdenlegal.com

February 24, 2016

VIA EMAIL ONLY

Kerrie Mathews
Senior Water Resource Agent
Idaho Department of Water Resources
900 N. Skyline Drive, Suite A
Idaho Falls, ID 83402-1718
Kerrie.Mathews@idwr.idaho.gov

RE: Thomas M. Ulrich Application for Permit; Response to Letter Dated January 28, 2016.

Dear Kerrie:

This letter is in response to your letter dated January 28, 2016, wherein you requested additional information regarding the heating and cooling system referenced in the Thomas M. Ulrich application document before the application is processed. This is because the applicant requested a .12 cfs (50 gpm) diversion rate. Enclosed is the requested information.

The system that will be installed is the Geothermal Systems Compass Series Vertical Combination System. Enclosed is an informational document which describes the system and the design of the system.

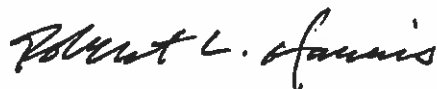
We have also included a document from the system installer, Bullseye Heating and Cooling, which describes the water needs of the system by recommending up to 25 gpm (.06 cfs) for just the heating and cooling system. In addition to this diversion rate, there will be a demand for culinary use that could occur simultaneously with the demand from the heating system. Using the standard rate of 9 gpm (.02 cfs) for domestic users, and adding this amount to 25 gpm, the diversion rate is .08 cfs (34 gpm). However, as you know, the actual diversion rate that will be licensed for this permit will depend upon what is developed under the permit. Because it is possible that the installed system may require more than 25 gpm, we want to err slightly over what we believe the actual developed system will divert to make sure we have enough authorized for development under the permit. Otherwise, if we do not, we would have to file another application for permit in the future to cover any shortage of development that would occur. As you know, the diversion rate sought under the permit is the maximum instantaneous rate, which we are required to include in the application. Overall, we believe the maximum diversion rate of .012 cfs (50 gpm) applied for is appropriate.

Established in 1896

Kerrie Mathews
February 24, 2016
Page 2 of 2

If you have any questions regarding this information, please let me know.

Best regards,

A handwritten signature in black ink, appearing to read "Robert L. Harris".

Robert L. Harris
HOLDEN, KIDWELL, HAHN & CRAPO, PLLC

Enclosures

G:\WPDATA\RLH\15313 Ulrich\2016-02-24, Mathews.docx



State of Idaho

DEPARTMENT OF WATER RESOURCES

Eastern Region • 900 North Skyline Drive, Suite A • Idaho Falls, ID 83402-1718

Phone: (208) 525-7161 • Fax: (208) 525-7177 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

January 28, 2016

Rob Harris
Holden Kidwell Hahn & Crapo
PO Box 50130
Idaho Falls ID 83405

RE: Thomas H Ulrich application for Permit

Dear Mr. Harris:

The Department has received the application for permit that was submitted by you on behalf of Thomas H and Mary M Ulrich.

Unfortunately, the application is incomplete and cannot be processed as received. In order to move forward in the application process, please provide additional information on the heating and cooling system. Specifically, please submit designs that substantiate the requested diversion rate.

The Department will continue to hold the application until March 1st. If the requested documentation has not been received the application will have to be returned as incomplete. If you have any questions, please feel free to let me know.

Sincerely,

Kerrie Mathews
Sr. Water Resource Agent



Holden Kidwell
Hahn & Crapo P.L.L.C.
LAW OFFICES

RECEIVED
JAN 27 2016
Department of Water Resources
Eastern Region

1000 Riverwalk Drive, Suite 200
PO Box 50130
Idaho Falls, Idaho 83405

Tel: (208) 523-0620
Fax: (208) 523-9518
www.holdenlegal.com

Email: rharris@holdenlegal.com

January 27, 2016

VIA HAND DELIVERY

Blake Jordan
Idaho Department of Water Resources
900 N. Skyline Drive, Suite A
Idaho Falls, ID 83402-1718

RE: Application for Permit.

Dear Blake:

Enclosed for processing is an *Application for Permit* together with a check in the amount of \$100.00 for the filing fee.

If you have any questions or concerns, please let me know. We appreciate your attention to this matter.

Best regards,

Robert L. Harris
HOLDEN, KIDWELL, HAHN & CRAPO, PLLC

Enclosures

G:\WPDATA\RLH\15313 Ulrich\2016-01-27, Jordan.docx