

RECEIVED

AUG 18 2010

WATER RESOURCES
WESTERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of IdahoIdent. No. 63-334161. Name of applicant(s) Ben Chow & Breda Chow Phone 208-861-8485
Name connector (check one): ☐ and ☐ or ☒ and/orMailing address: 925 W Calleghen Ln City EagleState Id Zip 83616 Email: benchow1@cableone.net2. Source of water supply Ground Water which is a tributary of n/a

3. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
5N	1E	20			NE	SW	Ada	Ground Water	D0055895

4. Water will be used for the following purposes:

Amount 0.05 for Domestic purposes from 1-1 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) 0.04 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. 4" Pipe. Grundfor Motorb. 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 ☐ Noc. Proposed well diameter is 8" to 5" inches; proposed depth of well is 1120 feet.d. Is ground water with a temperature of greater than 85°F being sought? ☒ Yes ☐ Noe. If well is already drilled, when? 10-7-09; drilling firm Adamson Pump and Drilling;Well was drilled for (well owner) Ben Chow; Drilling Permit No. 908723-857304

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; show name of municipality or the applicant's qualifications as a municipal provider. _____

d. Domestic; show number of households 1 home and lawn irrigation

e. Other; describe fully. _____

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	1E	20									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? Intend to use for irrigation for lawn and garden irrigation.

10. a. Who owns the property at the point of diversion? Applicant
- 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: _____

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

12. Time required for completion of works and application of water to proposed beneficial use is 1 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

Print Name (and title, if applicable)

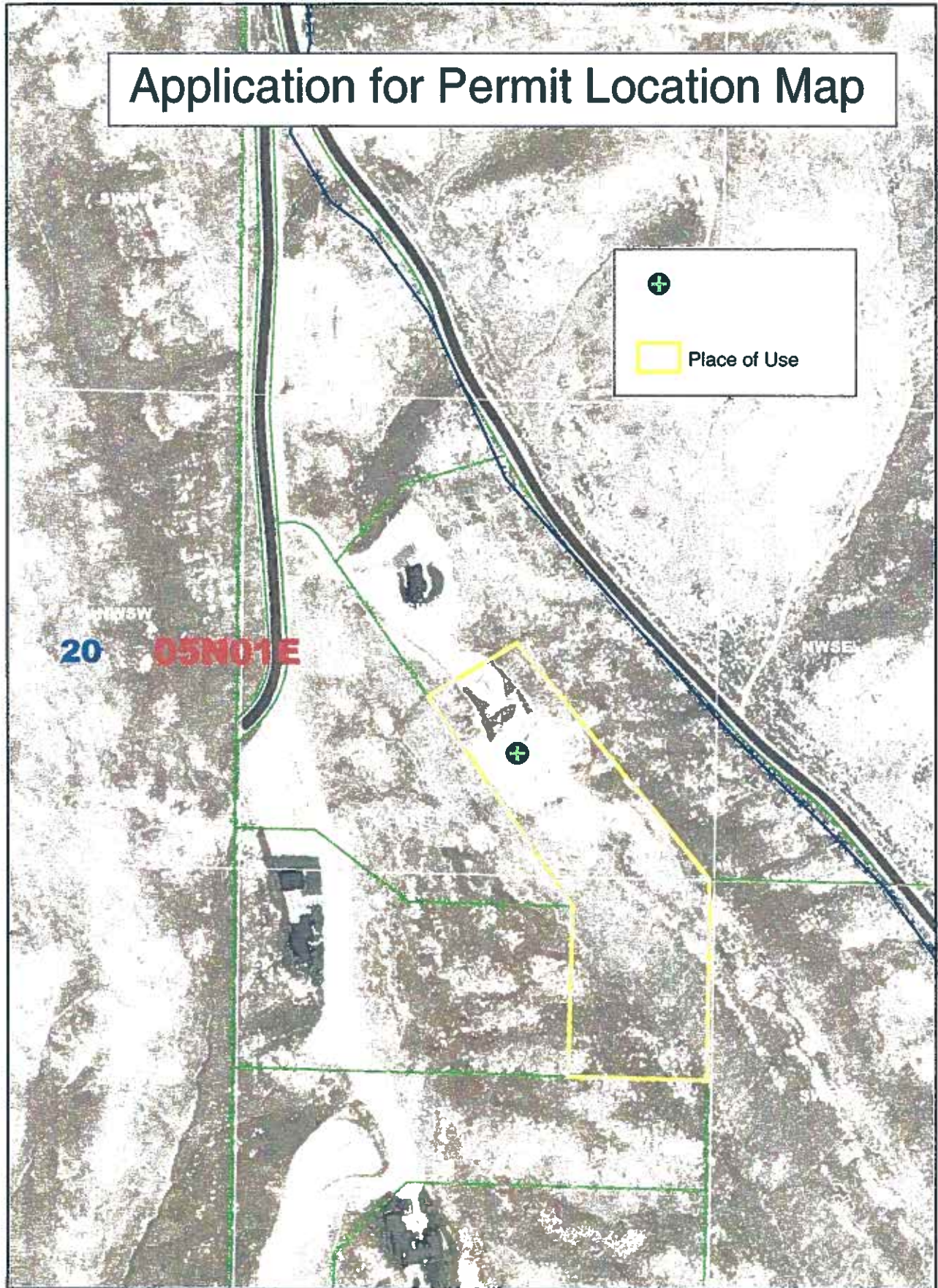
Signature of Applicant

Print Name (and title, if applicable)

For Department Use:

Received by SB Date 8-18-10 Time 1:55pm Preliminary check by VLM
 Fee \$ 100 - Received by DB Receipt No. W038666 Date 8-18-2010

Application for Permit Location Map



63-33416

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

857304

1. WELL TAG NO. D 0055895

Drilling Permit No. 908723-857304

Water right or injection well # _____

2. OWNER: MOUNTAIN WEST BANK

Name _____

Address 2950 EAST MAJIC VIEW DR SUITE 150

City MERIDIAN State ID Zip 83642

3. WELL LOCATION:

Twp. 5 North ☒ or South ☐ Rge. 1 East ☒ or West ☐

Sec. 20 SE 1/4 NE 1/4 SW 1/4

Gov't Lot _____ County ADA

Lat. 43 ° 45:281 (Deg. and Decimal minutes)

Long. 116 ° 21:983 (Deg. and Decimal minutes)

Address of Well Site 925 W CALLESHEN LN

City EAGLE

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

Lot 3 Blk. 1 Sub. Name HIGHLANDER EST #2

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	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
<u>PCEMENT</u>	<u>-4</u>	<u>691</u>	<u>13 YARDS</u>	<u>PRESSURE GRouted</u>
				<u>THROUGH 8" CASING</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
<u>8"</u>	<u>+2</u>	<u>691</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒
<u>6"</u>	<u>+3</u>	<u>1068</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒
<u>5"</u>	<u>1030</u>	<u>1097</u>	<u>.258</u>	<u>STEEL</u>	☐	☒	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 8", 691ft 6", 1068ft

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type SS WIRE WRAP

Method of installation WASH DOWN

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>1097</u>	<u>1117</u>	<u>.020</u>	<u>-</u>	<u>5"</u>	<u>STAINLESS STEEL</u>	<u>-</u>

Length of Headpipe 63ft + PAC Length of Tailpipe NONE

Packer ☒ Y ☐ N Type H.D. K-PACKER (2) 1030, 1050

10. FILTER PACK: NONE

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	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) 915 Static water level (ft) 625

Water temp. (°F) 88 Bottom hole temp. (°F) 88

Describe access port STANDARD WELL CAP

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
<u>295</u>	<u>20</u>	<u>3 hrs</u>
<u>DEIN SIGN AT 920 FT</u>		

Test method:

Pump ☐ Bailer ☐ Air ☒ Flowing artesian ☐

Water quality test or comments: NO TEST

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>12</u>	<u>0</u>	<u>38</u>	<u>SANDY CLAY</u>		
<u>12</u>	<u>38</u>	<u>201</u>	<u>SANDY BRN CLAY</u>		
<u>12</u>	<u>201</u>	<u>237</u>	<u>BROWN SAND</u>		
<u>12</u>	<u>237</u>	<u>297</u>	<u>SANDY BRN CLAY</u>		
<u>12</u>	<u>297</u>	<u>367</u>	<u>HARD BROWN CLAY</u>		
<u>12</u>	<u>367</u>	<u>397</u>	<u>SANDY BROWN CLAY</u>		
<u>12</u>	<u>397</u>	<u>415</u>	<u>BRN & BLACK SAND</u>		
<u>12</u>	<u>415</u>	<u>419</u>	<u>BRN CLAY</u>		
<u>12</u>	<u>419</u>	<u>488</u>	<u>STICKY BLUE CLAY</u>		
<u>12</u>	<u>488</u>	<u>489</u>	<u>BLUE SAND</u>		
<u>12</u>	<u>489</u>	<u>512</u>	<u>STICKY BLUE CLAY</u>		
<u>12</u>	<u>512</u>	<u>513</u>	<u>BLUE SAND</u>		
<u>12</u>	<u>513</u>	<u>629</u>	<u>STICKY BLUE CLAY</u>		
<u>12</u>	<u>629</u>	<u>775</u>	<u>GREASY STICKY SOFT GRAY CLAY</u>		
<u>8</u>	<u>775</u>	<u>808</u>	<u>BLACK CLAY SANDSTONE</u>		
<u>8</u>	<u>808</u>	<u>877</u>	<u>BLUE CLAY</u>		
<u>8</u>	<u>877</u>	<u>915</u>	<u>GRAY CLAY W/ SANDSTONE</u>		
<u>8</u>	<u>915</u>	<u>1097</u>	<u>HARD BLUE CLAY</u>		
<u>8</u>	<u>1097</u>	<u>1106</u>	<u>QUARTZ COARSE SAND</u>	☒	
<u>8</u>	<u>1106</u>	<u>1113</u>	<u>HARD BLUE CLAY</u>		
<u>8</u>	<u>1113</u>	<u>1120</u>	<u>COARSE QUARTZ SAND</u>	☒	

RECEIVED

OCT 21 2009

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 1117

Date Started: 8-5-09 Date Completed: 10-7-09

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 ADAMSON PUMP & DRILLING Co. No. 457

*Principal Driller Edwin Adamson Date 10-20-09

*Driller Math Stoffer Date 10-20-09

*Operator II _____ Date _____

Operator I _____ Date _____

*Signature of Principal Driller and rig operator are required.

63-33416

RECEIVED

AUG 18 2010

WATER RESOURCES
WESTERN REGION

August 17, 2010.

**Idaho Department of Water Resources
2735 Airport Way,
Boise, Idaho, 83705-5082**

To Whom It May Concern:

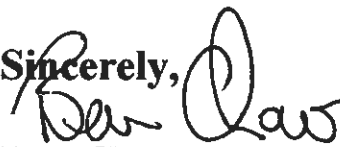
Please find this attached letter in regards to application for water rights for our well – 925 W. Calleghen Lane, Eagle, Idaho, 83616.

Permit Number # 9087230857304.

- 1. The well that has been drilled receives adequate water for our domestic. As noted in the well log the water temperature is 88 degrees. This is the third well drilled as the previous 2 wells did not produce adequate water pressure or volume.**
- 2. There are no other residents or properties that are competing for this water.**
- 3. This water is not being used for heating purposes or economic gain.**
- 4. There is no access to any domestic water or any municipal water sources.**

This exemption for our water use would have no negative impact on the community.

Please feel free to contact me should you have any questions.

Sincerely,


Ben Chow

(208) 861-8485.

63-33416

Buffington, Denise

From: Buffington, Denise
Sent: Wednesday, January 12, 2011 11:22 AM
To: Idaho Statesman
Subject: LEGAL NOTICE
Attachments: Ada County Ads - Cover Letter.Doc; Ada County Ads - COMBINED.Doc

Attached please find (1) legal notice being submitted for publication. Please contact me immediately if you have any questions, or if you are not able to publish the ad on the dates requested.

Thank you in advance,

*Denise Buffington
Administrative Assistant I
Dept of Water Resources
Western Region
(208) 334-2190*

January 12, 2011

LEGAL NOTICE DEPARTMENT

IDAHO STATESMAN
PO BOX 40
BOISE, ID 83707

RE: Application For Permit No(s): 63-33416 & 63-32461

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 2/7/2011. Your cooperation is appreciated.

Sincerely,

Denise Buffington
Administrative Assistant

Enclosure(s)

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

63-32461

J F WATSON FARMS CO

PO BOX 300

PARMA, ID 83660

Point of Diversion SENE S8 T05N R05W CANYON County Source SAND HOLLOW CREEK Tributary SNAKE RIVER

Use: WILDLIFE 11/15 to 03/15 30 CFS

Total Diversion: 30 CFS

Date Filed: 12/19/2005

Place Of Use: WILDLIFE

T05N R05W S6 L2(NWNE) SWNE SENE

Source aka Sand Run Gulch & similar names. Use River Flat Ditch for non-irrigation season wildlife project. Return flows to creek at west end of site.

Published in Press Tribune, Idaho Statesman, Times News, Lewiston Tribune and Post Register on 1/20 & 1/27/2011

63-33416

BEN CHOW

BREDA CHOW

925 W CALLEGHEN LN

EAGLE, ID 83616

Point of Diversion NESW S20 T05N R01E ADA County Source GROUND WATER Tributary

Use: DOMESTIC 01/01 to 12/31 0.04 CFS

Total Diversion: 0.04 CFS

Date Filed: 8/18/2010

Place Of Use: DOMESTIC

T05N R01E S20 NESW

Domestic use is for one home and yard in Highlander Estates #2 Subdivision.

Proposed point of diversion is existing well which produces 88 degree low temperature geothermal water.

Permits will be subject to all prior water rights. 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, Western Region, 2735 Airport Wy, Boise ID 83705 together with a protest fee of \$25.00 for each application on or before 2/7/2011. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Interim Director

Published on 1/20 & 1/27/2011

MEMORANDUM TO FILE

TO: APPLICATION FOR PERMIT FILE 63-33416
FROM: VICKY MUSIC
SUBJECT: APPLICANT REQUEST FOR WAIVER OF I.C. 42-233 [USE OF LOW T
GEOTHERMAL WATER]
DATE: 12/30/2010
CC:

This is an application for permit filed by Ben and Breda Chow for a de minimus domestic use for their home. There have been three attempts to drill a producing domestic well. IDWR has all three logs on file. Precision Well Drilling completed the first well on 6/27/08, Well Permit No. 850881. It only produced 5 gpm initially which was insufficient for the domestic use sought by the well permit.

Adamson Pump & Drilling made a second attempt 8/5/09 by under permit no. 857299. It was abandoned because no water was encountered and the drillers lost their drilling mud. Adamson Pump & Drilling successfully completed a producing well on 10/7/09, permit no. 857304. It was drilled to a total depth of 1120 feet, water was first encountered at 915' and the static water level was 625'. The temperature of the water was 88 degrees F, which qualifies as low temperature geothermal water per I.C. 42-233.

I.C. 42-233 states in pertinent part:

42-233.LOW TEMPERATURE GEOTHERMAL RESOURCE. (1) The right to the use of low temperature geothermal resources of this state shall be acquired by appropriation. The appropriation may be perfected by means of the application, permit and license procedure as provided in this chapter for ground water, provided that low temperature geothermal resources shall be utilized primarily for heat value and secondarily for the value as water. Usage of a low temperature geothermal resource primarily for reasons other than heat value is not a beneficial use of the resource, unless the director of the department of water resources exempts the proposed use. The director may exempt a proposed use if the director finds that the proposed use satisfies the following criteria: (i) there is no feasible alternative use of the resource; (ii) there is no economically viable source of water having a bottom hole temperature of eighty-five (85) degrees or less in a well available; and (iii) the exemption is in the public interest.

The applicants seek a waiver from the director as described in the statute and their reasons are set forth in an attachment to the application. I discussed this request with

both Steve Lester, Allocations program manager at Western, and Rob Whitney, Supervisor of the well drilling program at Western. Rob was very familiar with this specific situation. We all agreed that a waiver was appropriate for the following reasons:

1 – The temperature of the water is only 3 degrees F above the low temperature geothermal threshold and there is uncertainty whether it would be economically viable to use this low low temperature geothermal water for its heat value. The homeowners are not seeking to and it is unreasonable to force them to comply with this requirement.

2 – The application seeks a de minimus quantity of water.

3 – There is no other source of domestic water available.

4 – It does not violate public policy to grant a waiver as provided by the statute. No other rights will be injured by granting a waiver.

IDWR will grant a waiver for the de minimus use of low temperature water. Attached to this memo is a copy of the relevant statute and the first two well logs. The log of the producing well is attached to the application.

TITLE 42
IRRIGATION AND DRAINAGE -- WATER RIGHTS AND RECLAMATION
CHAPTER 2

APPROPRIATION OF WATER -- PERMITS, CERTIFICATES, AND LICENSES --
SURVEY

42-233.LOW TEMPERATURE GEOTHERMAL RESOURCE. (1) The right to the use of low temperature geothermal resources of this state shall be acquired by appropriation. The appropriation may be perfected by means of the application, permit and license procedure as provided in this chapter for ground water, provided that low temperature geothermal resources shall be utilized primarily for heat value and secondarily for the value as water. Usage of a low temperature geothermal resource primarily for reasons other than heat value is not a beneficial use of the resource, unless the director of the department of water resources exempts the proposed use. The director may exempt a proposed use if the director finds that the proposed use satisfies the following criteria: (i) there is no feasible alternative use of the resource; (ii) there is no economically viable source of water having a bottom hole temperature of eighty-five (85) degrees or less in a well available; and (iii) the exemption is in the public interest.

857299

- Signature of Principal Driller and rig operator are required

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

W11 #1

1. WELL TAG NO. 00052222

Drilling Permit No. _____
Water right or irrigation well # _____

2. OWNER:
Name Marion Creek Ranch
Address 2150 N 1st St
City Boise State ID Zip 83720

3. WELL LOCATION:
Type 5 North or South 1 East or West 1
Sec. 22 Twp. 4N R. 1E
County Ada

Gov. Lot _____
L.R. _____
Long. _____
Address of Well Site 2150 N 1st St
City Boise State ID Zip 83720

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:
☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

5. DRILL METHOD:
☒ Air rotary ☐ Mud rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:
Seal material Grout From (ft) 0 To (ft) 10 Quantity (cu ft) _____
Seal material Grout From (ft) 10 To (ft) 15 Quantity (cu ft) _____
Seal material Grout From (ft) 15 To (ft) 20 Quantity (cu ft) _____

8. CASING DATA:
Casing From (ft) _____ To (ft) _____ Material _____ Casing Line _____ Threaded _____ Welded _____
Casing From (ft) _____ To (ft) _____ Material _____ Casing Line _____ Threaded _____ Welded _____
Casing From (ft) _____ To (ft) _____ Material _____ Casing Line _____ Threaded _____ Welded _____

9. PERFORMANCE/SCREENS:
Perforations ☐ Y ☐ N Method _____
Manufactured screens ☒ Y ☐ N Method _____
Method of Installation Set with cable tool rig

10. FILTER PACK:
Length of Headpipe 6.5' Length of Tailpipe _____
Packer ☐ Y ☐ N Type T-R-16

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) 11.4 Static water level (ft) 32.1
Water level (ft) _____ Bottom hole temp. (°F) _____
Describe access point Seal Seal Unit

13. LITHOLOGIC LOG AND/OR TESTS:
Water quality test or comments Good water for drinking

Depth (ft)	From (ft)	To (ft)	Remarks, lithology or description of material or strata, water level	Water	
				Y	N
0	0	10	Gravel, sand, silt		
10	10	15	Gravel, sand, silt		
15	15	20	Gravel, sand, silt		
20	20	25	Gravel, sand, silt		
25	25	30	Gravel, sand, silt		
30	30	35	Gravel, sand, silt		
35	35	40	Gravel, sand, silt		
40	40	45	Gravel, sand, silt		
45	45	50	Gravel, sand, silt		
50	50	55	Gravel, sand, silt		
55	55	60	Gravel, sand, silt		
60	60	65	Gravel, sand, silt		
65	65	70	Gravel, sand, silt		
70	70	75	Gravel, sand, silt		
75	75	80	Gravel, sand, silt		
80	80	85	Gravel, sand, silt		
85	85	90	Gravel, sand, silt		
90	90	95	Gravel, sand, silt		
95	95	100	Gravel, sand, silt		
100	100	105	Gravel, sand, silt		
105	105	110	Gravel, sand, silt		
110	110	115	Gravel, sand, silt		
115	115	120	Gravel, sand, silt		
120	120	125	Gravel, sand, silt		
125	125	130	Gravel, sand, silt		
130	130	135	Gravel, sand, silt		
135	135	140	Gravel, sand, silt		
140	140	145	Gravel, sand, silt		
145	145	150	Gravel, sand, silt		
150	150	155	Gravel, sand, silt		
155	155	160	Gravel, sand, silt		
160	160	165	Gravel, sand, silt		
165	165	170	Gravel, sand, silt		
170	170	175	Gravel, sand, silt		
175	175	180	Gravel, sand, silt		
180	180	185	Gravel, sand, silt		
185	185	190	Gravel, sand, silt		
190	190	195	Gravel, sand, silt		
195	195	200	Gravel, sand, silt		
200	200	205	Gravel, sand, silt		
205	205	210	Gravel, sand, silt		
210	210	215	Gravel, sand, silt		
215	215	220	Gravel, sand, silt		
220	220	225	Gravel, sand, silt		
225	225	230	Gravel, sand, silt		
230	230	235	Gravel, sand, silt		
235	235	240	Gravel, sand, silt		
240	240	245	Gravel, sand, silt		
245	245	250	Gravel, sand, silt		
250	250	255	Gravel, sand, silt		
255	255	260	Gravel, sand, silt		
260	260	265	Gravel, sand, silt		
265	265	270	Gravel, sand, silt		
270	270	275	Gravel, sand, silt		
275	275	280	Gravel, sand, silt		
280	280	285	Gravel, sand, silt		
285	285	290	Gravel, sand, silt		
290	290	295	Gravel, sand, silt		
295	295	300	Gravel, sand, silt		
300	300	305	Gravel, sand, silt		
305	305	310	Gravel, sand, silt		
310	310	315	Gravel, sand, silt		
315	315	320	Gravel, sand, silt		
320	320	325	Gravel, sand, silt		
325	325	330	Gravel, sand, silt		
330	330	335	Gravel, sand, silt		
335	335	340	Gravel, sand, silt		
340	340	345	Gravel, sand, silt		
345	345	350	Gravel, sand, silt		
350	350	355	Gravel, sand, silt		
355	355	360	Gravel, sand, silt		
360	360	365	Gravel, sand, silt		
365	365	370	Gravel, sand, silt		
370	370	375	Gravel, sand, silt		
375	375	380	Gravel, sand, silt		
380	380	385	Gravel, sand, silt		
385	385	390	Gravel, sand, silt		
390	390	395	Gravel, sand, silt		
395	395	400	Gravel, sand, silt		
400	400	405	Gravel, sand, silt		
405	405	410	Gravel, sand, silt		
410	410	415	Gravel, sand, silt		
415	415	420	Gravel, sand, silt		
420	420	425	Gravel, sand, silt		
425	425	430	Gravel, sand, silt		
430	430	435	Gravel, sand, silt		
435	435	440	Gravel, sand, silt		
440	440	445	Gravel, sand, silt		
445	445	450	Gravel, sand, silt		
450	450	455	Gravel, sand, silt		
455	455	460	Gravel, sand, silt		
460	460	465	Gravel, sand, silt		
465	465	470	Gravel, sand, silt		
470	470	475	Gravel, sand, silt		
475	475	480	Gravel, sand, silt		
480	480	485	Gravel, sand, silt		
485	485	490	Gravel, sand, silt		
490	490	495	Gravel, sand, silt		
495	495	500	Gravel, sand, silt		
500	500	505	Gravel, sand, silt		
505	505	510	Gravel, sand, silt		
510	510	515	Gravel, sand, silt		
515	515	520	Gravel, sand, silt		
520	520	525	Gravel, sand, silt		
525	525	530	Gravel, sand, silt		
530	530	535	Gravel, sand, silt		
535	535	540	Gravel, sand, silt		
540	540	545	Gravel, sand, silt		
545	545	550	Gravel, sand, silt		
550	550	555	Gravel, sand, silt		
555	555	560	Gravel, sand, silt		
560	560	565	Gravel, sand, silt		
565	565	570	Gravel, sand, silt		
570	570	575	Gravel, sand, silt		
575	575	580	Gravel, sand, silt		
580	580	585	Gravel, sand, silt		
585	585	590	Gravel, sand, silt		
590	590	595	Gravel, sand, silt		
595	595	600	Gravel, sand, silt		
600	600	605	Gravel, sand, silt		
605	605	610	Gravel, sand, silt		
610	610	615	Gravel, sand, silt		
615	615	620	Gravel, sand, silt		
620	620	625	Gravel, sand, silt		
625	625	630	Gravel, sand, silt		
630	630	635	Gravel, sand, silt		
635	635	640	Gravel, sand, silt		
640	640	645	Gravel, sand, silt		
645	645	650	Gravel, sand, silt		
650	650	655	Gravel, sand, silt		
655	655	660	Gravel, sand, silt		
660	660	665	Gravel, sand, silt		
665	665	670	Gravel, sand, silt		
670	670	675	Gravel, sand, silt		
675	675	680	Gravel, sand, silt		
680	680	685	Gravel, sand, silt		
685	685	690	Gravel, sand, silt		
690	690	695	Gravel, sand, silt		
695	695	700	Gravel, sand, silt		
700	700	705	Gravel, sand, silt		
705	705	710	Gravel, sand, silt		
710	710	715	Gravel, sand, silt		
715	715	720	Gravel, sand, silt		
720	720	725	Gravel, sand, silt		
725	725	730	Gravel, sand, silt		
730	730	735	Gravel, sand, silt		
735	735	740	Gravel, sand, silt		
740	740	745	Gravel, sand, silt		
745	745	750	Gravel, sand, silt		
750	750	755	Gravel, sand, silt		
755	755	760	Gravel, sand, silt		
760	760	765	Gravel, sand, silt		
765	765	770	Gravel, sand, silt		
770	770	775	Gravel, sand, silt		
775	775	780	Gravel, sand, silt		
780	780	785	Gravel, sand, silt		
785	785	790	Gravel, sand, silt		
790	790	795	Gravel, sand, silt		
795	795	800	Gravel, sand, silt		
800	800	805	Gravel, sand, silt		
805	805	810	Gravel, sand, silt		
810	810	815	Gravel, sand, silt		
815	815	820	Gravel, sand, silt		
820	820	825	Gravel, sand, silt		
825	825	830	Gravel, sand, silt		
830	830	835	Gravel, sand, silt		
835	835	840	Gravel, sand, silt		
840	840	845	Gravel, sand, silt		
845	845	850	Gravel, sand, silt		
850	850	855	Gravel, sand, silt		
855	855	860	Gravel, sand, silt		
860	860	865	Gravel, sand, silt		
865	865	870	Gravel, sand, silt		
870	870	875	Gravel, sand, silt		
875	875	880	Gravel, sand, silt		
880	880	885	Gravel, sand, silt		
885	885	890	Gravel, sand, silt		
890	890	895	Gravel, sand, silt		
895	895	900	Gravel, sand, silt		
900	900	905	Gravel, sand, silt		
905	905	910	Gravel, sand, silt		
910	910	915	Gravel, sand, silt		
915	915	920	Gravel, sand, silt		
920	920	925	Gravel, sand, silt		
925	925	930	Gravel, sand, silt		
930	930	935	Gravel, sand, silt		
935	935	940	Gravel, sand, silt		
940	940	945	Gravel, sand, silt		
945	945	950	Gravel, sand, silt		
950	950	955	Gravel, sand, silt		
955	955	960	Gravel, sand, silt		
960	960	965	Gravel, sand, silt		
965	965	970	Gravel, sand, silt		
970	970	975	Gravel, sand, silt		
975	975	980	Gravel, sand, silt		
980	980	985	Gravel, sand, silt		