STARTING LEFT SIDE OF FILE

SCANNED
MAR 0 5 2008

Form 217
08/89

RECEIVED
NOV 28 1989
Department of Water Resources

For Office Use Only
Amt. of Fee $ 150.00
Date 11-28-89
Receipt No. C013044
Received by D.K.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources will consider this form as a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

Permit No. 63-09890 Telephone No. 336-5100

Name(s) of Permit Holder(s): Veterans Affairs Medical Center

Post Office Address: 500 West Fort Street, Boise, Idaho 83702-4598

Source of Water: Ground Water

If ground water, well driller's name: Holman Drilling Date drilled: 10-23-86

Extent of Use:

Domestic _____ (No. of households) Irrigation _____ (No. of acres)

Stockwater _____ (No. and type of stock) Other _____

Geothermal Water will be used for space heating in all Medical Center Buildings

Total rate and/or volume for which proof is submitted 2.23 cfs _____ acre/feet

Show date water was first diverted and beneficially used under this permit: October 2, 1987

One of the following may be a condition of approval of your permit:

Measuring device: Required? __Yes __No Installed? __Yes __No

OR

Flow Measurement Port: Required? X Yes __No Installed? X Yes __No

Fee Enclosed: $ 150.00 (See License Examination Fee Schedule)

Person to contact to accompany the Department representative during the field examination:

Denis L. Johnson, Chief Engineering 338-7270
Name Telephone No.

500 West Fort Street, Boise, ID 83702-4598
Address

Microfilmed
FEB 23 1990

The above information is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the state of Idaho.

11/22/89
Date

Wayne Pfeffer for James A. Goff, FACHE, Medical Center Director
Signature (and title if on behalf of a company or organization)

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF THE BOISE FRONT LOW TEMPERATURE GEOTHERMAL RESOURCE GROUND WATER MANAGEMENT AREA	ORDER ESTABLISHING A MORATORIUM

On June 15, 1987, the Director of the Idaho Department of Water Resources (IDWR) designated the Boise Front Low Temperature Geothermal Resource Ground Water Management Area (Boise Front) in Ada County due to reported declines in aquifer water levels and pressure. On January 22, 1988, Boise Warm Springs Water District (BWSWD) petitioned IDWR to:

1) Establish a moratorium on further development pursuant to Section 42-1805(7), Idaho Code, and Rule 7 of the Department's Water Appropriation Rules and Regulations,

2) Designate the Boise Front as a critical ground water area pursuant to Section 42-233(a), Idaho Code, and

3) To stop further development in the Boise Front pursuant to management authority provided by Sections 42-233(b) and 42-237(b), Idaho Code.

The IDWR staff has reviewed the present status of use and development of the low temperature geothermal resource in the Boise Front area and based upon this staff review, the Director has determined that:

1) Water levels or pressures in the Boise Front continue to decline at an estimated rate of six (6) to seven (7) feet per year in all or part of the Boise Front.

2) Pending applications and undeveloped permits could increase the annual withdrawal from the aquifer several fold if developed.

3) Protection of existing rights require additional management of the resource.

4) A moratorium on further development which will increase the rate of depletion from the Boise Front is required to insure compliance with the provisions of Chapter 2, Title 42, Idaho Code.

5) Additional hydrogeologic data is needed to adequately

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FEB 20 1990

evaluate the characteristics of the aquifer to prevent over appropriation of the resource, to stabilize depletions and to adequately assess the potential of long term declines.

6) By maintaining a ground water management area designation, the Director is authorized to require right holders to report withdrawals of ground water and other information to determine the ground water supply and its usage.

7) The Director is charged with the protection of existing water rights while allowing reasonable use of the resource.

8) Section 42-1805(7), Idaho Code, and Rule 7 of the Water Appropriation Rules and Regulations provide for the establishment of a moratorium on further development.

NOW, THEREFORE, pursuant to Section 42-1805(7), Idaho Code, and Rule 7 of the Water Appropriation Rules and Regulations, it is hereby ORDERED in connection with the Boise Front Low Temperature Geothermal Resource Ground Water Management Area designed on June 15, 1987 that:

1. Effective with the date of entry of this order, further development or additional use pursuant to undeveloped or partially developed permits is prohibited until the permit holder shows to the satisfaction of the Director that further development or additional use: a) will not increase depletions from the aquifer; b) will not increase pumping lift or decrease pressure to existing prior users; and c) will not reduce temperature to existing users causing systems operating at reasonable efficiency to no longer operate.

2. Pending and future applications will be rejected unless information is provided to demonstrate the use: a) will not cause additional depletion of the aquifer; b) will not increase pumping lift or pressure reduction to existing users or undeveloped permit holders; and c) will not reduce the temperature of the resource to existing users or undeveloped permit holders below the temperature necessary for a system operating at reasonable efficiency to operate.

3. The Director retains the designation of the Boise Front as a Ground Water Management Area and DENIES the petition of the Boise Warm Springs Water District to designate the Boise Front a Critical Ground Water Area.

4. The provisions of this order are effective upon issuance and remain effective for a period of five (5) years unless rescinded, modified or extended by subsequent order of the Director.

5. Service and publication of this order shall be made in accordance with the provisions of Rule 7 of the Rules

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FEB 23 1990

Appropriation Rules and Regulations.

6. Any person aggrieved by this order shall be entitled to a hearing before the Director for the purpose of contesting the order. A request for hearing must be filed with the Director within fifteen (15) days after receipt of a copy of the order by certified mail, or within fifteen (15) days after completion of the publication of the order for three (3) consecutive weeks in a newspaper of general circulation, whichever is earlier. The hearing shall be conducted in accordance with the provisions of Chapter 52, Title 67, Idaho Code, and the rules of Practice and Procedure of the Department of Water Resources.

Dated this 10TH day of JUNE, 1988.

R. KEITH HIGGINSON
Director

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FEB 23 1990

Form 204
4/86

For Office Use Only
$15 FEE Receipted by
Date 11-18-87
Receipt 45696

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

REQUEST FOR EXTENSION OF TIME

RECEIVED
NOV 16 1987
Department of Water Resources

To provide additional time in which to submit proof of beneficial use for a water right permit

The Idaho Department of Water Resources will consider this form as a request that the permit holder(s) be grant an additional period of time in which to complete development of a water right under the provisions of Secti 42-204, Idaho Code.

Permit No. 63-9890

Name(s) of Permit Holder: Veterans Administration Medical Center

Post Office Address: 500 West Fort Street, Boise, ID 83702-4598

Telephone No. 336-5100

Date Proof is Due: December 1, 1987

Describe what work has been completed toward the development of this water right:
(This must be filled out! If no work has been completed, show "none".)

The distribution system from the production to the injection well and all laterals to the buildings are complete. Retrofit of the buildings is proceedings with completion estimated to be during the 1988-89 heating season. Approximately 40% of the $3.7 million construction is completed to date. Costing $ 1.5 million

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

The construction will take longer than the time requested under the original request.

Permit holder(s) request an extension to December 1, 19 89.
(1 yr. minimum)

(Signature)*
*IF OTHER THAN PERMIT HOLDER, POWER OF ATTORNEY MUST BE SUPPLIED.

FEE: $15.00

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FEB 29 1988

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be APPROVED and the time within which to submit proof of beneficial use is extended to December 1, 1989. IT IS FURTHER ORDERED that the permit holder shall dispose of effluent using the injection well(s) authorized by injection well permit(s) No. 63-W-21 and/or 63-W-15 which are associated with the production of water under Permit No. 63-9890.

Signed this 30th day of November, 19 87.

L. Glenn Saxton
Chief, Operations Bureau

WATER RIGHT SPLIT

SUMMARY

ACTION	RIGHT NO.	NAME	AMOUNT C.F.S.
Orginial Permit	63-9890	James A. Goff	2.23 cfs
Full Assignment	63-9890	V A Medical Center	2.23 cfs

MICROFILMED
JAN 30 1987

State of Idaho
Department of Water Resources

ASSIGNMENT OF PERMIT

ok to proceed RC 12/27/82

I, JAMES A. GOFF, hereby assign to VA MEDICAL CENTER

of 5th AND FORT STREETS, BOISE, IDAHO, 83702
Address

CHECK ONE

☒ All my right, title, and interest in and to Permit No. 63-9890 to appropriate the public waters of the State of Idaho.

☐ The following described portion of my right, title, and interest in and to Permit No. _____ to appropriate the public waters of the State of Idaho.

(Describe that portion of the permit being assigned by listing the acreage within each 40 acre subdivision, the point of diversion and the amount of water in cubic feet per second for direct diversion, or acre feet for storage)

Made this 21 day of DECEMBER, 19 82.

RECEIVED
DEC 22 1982
Department of Water Resources
Western Regional Office

Permit Holder

Spouse of Permit Holder

State of Idaho)
) ss.
County of Ada)

On this 21 day of December, 19 82, personally appeared before me the signer(s) of the above instrument, who duly acknowledged to me that he (she) (they) executed the same.

WILLIAM F. HOLTZ NOTARY PUBLIC seal STATE OF IDAHO

Notary Public residing at Boise, Idaho

My commission expires:

"My Commission Expires April 19, 1986"

MICROFILMED
JAN 30 1987

Form 202
3/78

Ident. No. 63-9890

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant James A. Goff Phone 336-5100 Ext. 351

   Post office address VA Medical Center, 5th & Fort Sts., Boise, ID 83702

2. Source of water supply Ground water which is a tributary of _____

3. Location of point of diversion is NW ¼ of SW ¼ of Section 2 Township 3N

   Range 2E B.M. Ada County, additional points of diversion if any: _____

   SE 1/4 of SW 1/4 of Section 2 Township 3N Range 2E

4. Water will be used for the following purposes:

   Amount 2.23 cfs (cfs or acre-feet per annum) for space heating purposes from Jan. 1 to Dec. 31 (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purposes from _____ to _____ (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purposes from _____ to _____ (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purposes from _____ to _____ (both dates inclusive)

5. Total quantity to be appropriated:

   a. 2.23 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

   a. Description of ditches, flumes, pumps, headgates, etc. 75 HP pump for geothermal production well with matching pump for reinjection well

   b. Height of storage dam N/A feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____

   Period of year when water will be diverted to storage _____ (Month/Day) to _____ (Month/Day) inclusive.

   c. Proposed well diameter is 14 inches; proposed depth of well is 2,000 feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 years *(minimum 1 year – maximum 5 years).*

8. Description of proposed uses:
   a. If water is **not** for irrigation:
      (1) Give the place of use of water: _____ ¼ of SW ¼ of Section 2 Township 3N

      Range 2E B.M.

      (2) Amount of power to be generated: None horsepower under _____ feet of head.

      (3) List number of each kind of livestock to be watered None

      (4) Name of municipality to be served VA Medical Center, or number of families to be supplied with domestic water _____.

      (5) If water is to be used for other purposes describe: Geothermal water will be used for space heating in all Medical Center buildings.

JAN 30 1981

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated 0

c. Describe any other water rights used for the same purposes as described above. None

9. a. Who owns the property at the point of diversion U.S. Veterans Administration

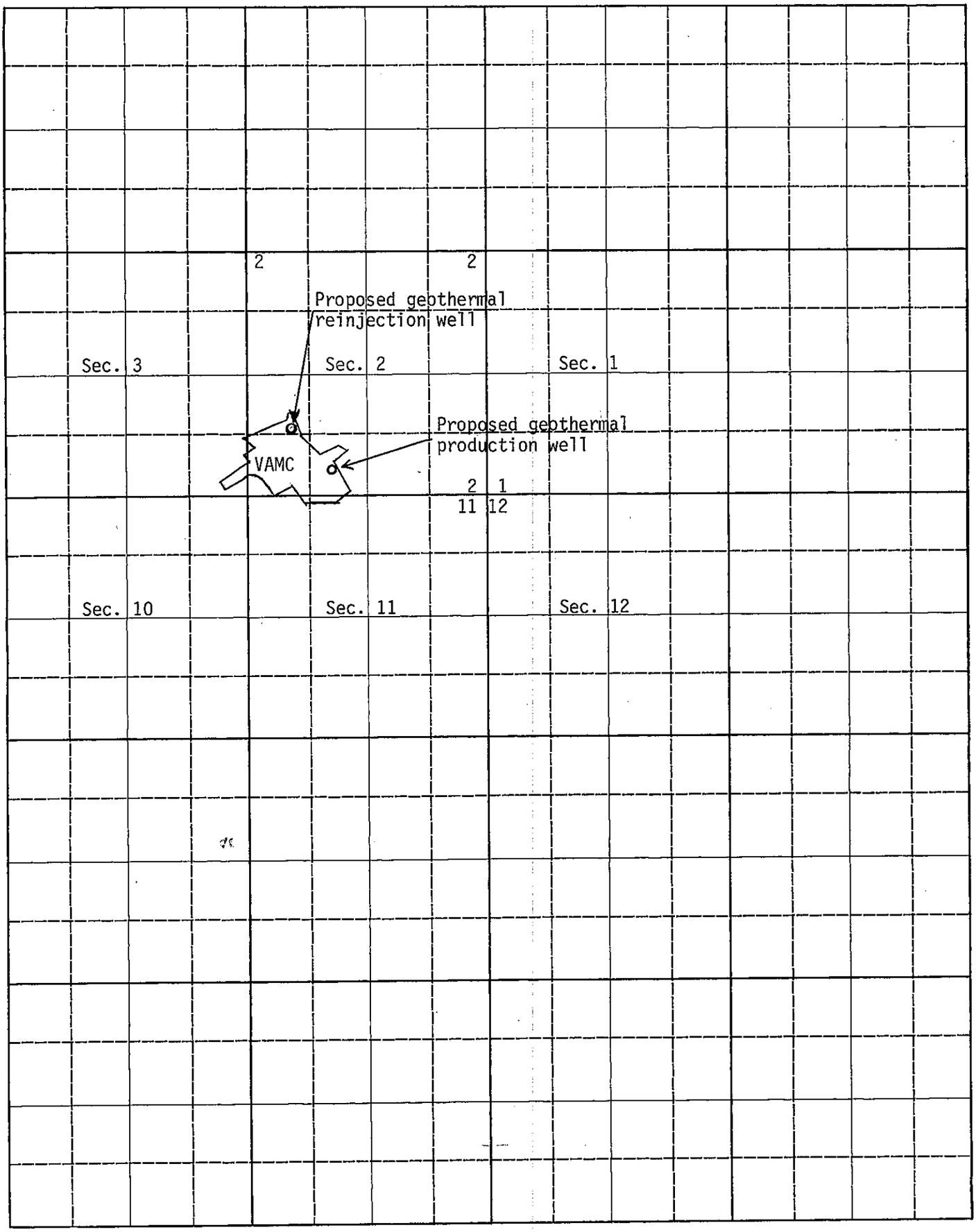
b. Who owns the land to be irrigated or place of use N/A

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing Applicant is Director of Veterans Administration Medical Center.

10. Remarks

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JAN 30 1987

11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

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.

MICROFILMED
JAN 30 1987

JAMES A. GOFF
Medical Center Director

(Applicant)

Proposed Priority 4/19/1982 4-19-82 11:25 Am

Received by JW Date 4-13-82 Time 10:45

Preliminary check by GLS Fee $ Made $85.00 #22873

Receipted by ajw Date 4-19-82

Publication prepared by jp Date 4/22/82

Published in Idaho Statesman

Publication dates 4/29 & 5/6/82

Publication approved SP Date 5/7/82

Protests filed by: Boise Warm Springs by Joseph D. McCollum, Jr., Attorney

withdrawn 11/4/82

Copies of protests forwarded by SP

Hearing held by _____ Date _____

Recommended for (approval) denial by DBS

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 63-9890, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

   a. SUBJECT TO ALL PRIOR WATER RIGHTS.

   b. Proof of construction of works and application of water to beneficial use shall be submitted on or before December 1, 19 87.

   c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

   d. Other: Return flow if discharged to a subsurface system must be authorized by a separate injection well permit, and return flow if discharged to a surface water system shall meet Idaho Water Quality Standards.

   An access port or other device as specified by the Department shall be installed by the permit holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.

   Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is complete.

   This permit is also subject to four additional conditions of approval that have been identified in the attached cover letter dated December 14, 1982.

Witness my hand this 14th day of December, 1982.

L. Glen Saxton
Chief, Operations Bureau

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JAN 30 1987

NOTICE OF APPLICATION FOR WATER RIGHT

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

63-9890

GOFF, JAMES A.
VA MEDICAL CENTER, 5th & FORT ST., BOISE, ID 83702
Source: GROUNDWATER
Date Filed: 04/19/1982
Amount: 2.23 CFS
Diversion Point: NWSW SESW Sec 02 T 03N R 02E, ADA Co.
Use: HEATING (2.23 CFS) from 01/01 to 12/31
Place of Use: NWSW NESW SWSW SESW Sec 02 T 03N R 02E
Diverison Means: WELLS & PUMPS

63-9891

JOINT SCHOOL DISTRICT NO. TWO
911 MERIDIAN ST., MERIDIAN, ID 83642
Source: GROUNDWATER
Date Filed: 04/02/1982
Amount: 0.28 CFS
Diversion Point: NWNE Sec 36 T 03N R 01E, ADA Co.
Use: IRRIGATION (0.28 CFS) from 04/01 to 10/31
Place of Use: NWNE Sec 36 T 03N R 01E for 7 ACRES
Diverson Means: WELL, PUMP & PIPELINE

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 92 S. Cole Road, Boise, Idaho 83709 on or before MAY 17, 1982.

AS. KENNETH DUNN
Director

Pub. April 29, May 6, 1982 3065

STATE OF IDAHO)
)ss.
COUNTY OF ADA)

Margaret Rose Storrs, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in the regular edition of The Idaho Statesman for two insertions, beginning with the issue of April 29, 1982, and ending with the issue of May 6, 1982.

Margaret Rose Storrs

Subscribed and sworn to before me this 6th day of May, 1982.

Dorothy Eguren

Notary Public for Idaho, Residing at Boise, Idaho

RECEIVED
MAY 7 1982
Department of Water Resources
Western Regional Office

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JAN 30 1987

STARTING RIGHT SIDE OF FILE

MEMORANDUM

To: **Water Right File No. 63-9890**

From: **Aaron Marshall**

Date: **September 25, 2008**

Re: **Water Right No. 63-9890, License Processing**

Chronology:

Application for Permit was approved December 14, 1982, with a priority date of April 19, 1982.

A Request for Extension of Time to submit proof of beneficial use was approved on November 30, 1987 with a new proof due date of December 1, 1989. Applicant states, "The distribution system from the production to the injection well and all laterals to the buildings are complete. Retrofit of the buildings is proceeding with completion estimated to be during the 1988-89 heating season. Approximately 40% of the $3.7 million construction is completed to date."

Proof of Beneficial Use was received on November 28, 1989, and indicates the date water was first diverted and beneficially used was October 2, 1987.

An initial field examination was performed on November 18, 1993, by Cindy Hodges. A condition of permit approval was that an access port or other device be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department. Cindy did not complete the field examination report or make any recommendations since this condition was not satisfied at the time of her examination. As a result, Cindy provided a memorandum to the file describing her findings. She explained that the current configuration "does not satisfy our requirements to measure total flow" and that a complete digitized measuring system could be installed in August 1994.

The Beneficial Use Field Report was completed by Dan Nelson based on a second field exam conducted on August 9, 2001. Dan included flow records from 1989 through 2001 provided by the VA to IDWR hydrologist Ken Neely. Based on the data provided, Dan recommended the issuance of a license with a maximum flow rate of 1.43 cfs and a total annual diversion volume of 624.9 acre-feet.

Analysis:

Based on flow data records, the maximum flow diverted was **1.43 cfs**, on November 3, 1997. The field examiner indicated that the system had changed very little from 1993 to 2001 and was still operating in the same manner. The system appears to have had a similar capacity during the development period as it does now. This flow rate was likely utilized during the development period based on information included in the annual volumetric computation below.

Cindy Hodges determined, during the 1993 field examination, that the measuring device configuration was not adequate to measure the total flow. She indicated that the new digitized measuring system could not be installed until August 1994. Thus, the earliest data providing an accurate total annual diversion volume is 1995. In 1997, the highest use period prior to the 2001 field examination, the diversion total was 202.99 million gallons.

Referring to IDWR Administrator's Memorandum, Application Processing No. 23 and Analysis of the Annual Diversion Requirement for Water Right Permit 63-9341 prepared by David B. Shaw of ERO Resources Corporation for the Idaho Attorney General's Office, I computed the maximum annual diversion volume for water right no. 63-9890 based on the following:

- Water was first diverted and put to beneficial use on October 2, 1987.
- Proof of Beneficial Use was received on November 28, 1989.
- The only full calendar year period during this time was 1988.
- The 1997 annual diversion volume was 202.99 million gallons.
- The total number of heating degree days for Boise in 1997 was 5,219.
- The ratio of water volume diverted to heating degree days for 1997 was...

  $202{,}990{,}000_{gallons} / 5{,}219_{HDD} = 38{,}894.4_{gal/HDD}$
- The total number of heating degree days for Boise in 1988 was 5,580.
- Applying the above calculations to estimate the volume of water diverted and put to beneficial use in 1988...

  $5{,}580_{HDD} \times 38{,}894.4_{gal/HDD} = 217{,}030{,}887_{gallons}$
- Based on information provided recently by Doug Lamb, the VA Medical Center engineer, the total building area heated in 1997 was 410,410 ft². In 1988, the total building area heated was 386,940 ft², approximately 5.6% smaller than in 1997. Applying the difference in building size to the above calculation results in a more accurate estimate of the volume of water diverted and put to beneficial use in 1988...

  $217{,}030{,}887_{gallons} \times (386{,}940\ ft^2 / 410{,}410\ ft^2) = 204{,}619{,}603_{gallons}$

  $204{,}619{,}603_{gallons} / 325{,}850_{gal/AF} = 627.96$ acre-feet
- Applying Department standards for rounding to the nearest tenth of an acre-foot results in a volume of **628.0 acre-feet.**

Marshall, Aaron

From: Gehlert, David (ENRD) [David.Gehlert@usdoj.gov]
Sent: Wednesday, September 24, 2008 3:37 PM
To: Marshall, Aaron
Cc: Stanish, David
Subject: RE: VA's square footage

Attachments: VA Marked Up Geothermal Square Footage.TIF



VA Marked Up Geothermal Square..

Aaron,

Attached is a TIF file which Doug has marked up to show the buildings that were included in the 1997 square footage. Adding these up produces a total square footage of 413,595. The reason for the difference between this number and the 410,410 is that the VA added an addition on to B.85A in about 2005. Using 22,194 as the square footage for 85A, which is the size of the building before the addition, gives the 410,410.

Thanks,

Dave

David Gehlert
Natural Resources Section
Environment & Natural Resources Division U.S. Department of Justice
1961 Stout St.
Denver, CO 80294
(303) 844-1386 (phone)
(303) 844-1350 (fax)
david.gehlert@usdoj.gov

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-----Original Message-----
From: Marshall, Aaron [mailto:Aaron.Marshall@idwr.idaho.gov]
Sent: Wednesday, September 24, 2008 8:30 AM
To: Gehlert, David (ENRD)
Cc: Stanish, David
Subject: RE: VA's square footage

Dave,

Thank you for the information, it is precisely what IDWR needs to evaluate the beneficial use of water for heating. I double checked the total, 468,717 sq ft, and when I subtracted buildings constructed during or after the year 1997

(bldg nos. 85A, 114, 115, T112, T113) the total area is 411,180 sq ft. I see there are a few very small buildings listed in the inventory which may not be heated with the geothermal water system such as "Storage", "Electrical Generator", and "Gate House". Would you please ask Doug to specifiy which buildings listed on the inventory are not heated with the geothermal water system?

I would also like to point out that computing the annual diversion volume using 410,410 sq ft of building area in 1997, the total licensed volume would be 628.0 acre-feet, as rounded to the nearest tenth.
((386,940 sq ft / 410,410 sq ft) x 217,030,752 gal) / 325,850 gal/af =
627.96 acre-feet
1988 bldg area / 1997 bldg area x vol used in 1997 / conversion = 1988 water used for heating

Thank you,

Aaron Marshall
Senior Water Resource Agent
Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098
(208) 287-4943
aaron.marshall@idwr.idaho.gov

-----Original Message-----
From: Gehlert, David (ENRD) [mailto:David.Gehlert@usdoj.gov]
Sent: Tuesday, September 23, 2008 4:25 PM
To: Stanish, David; Marshall, Aaron
Subject: RE: VA's square footage

David & Aaron,

Attached is the VA's inventory of buildings on its campus. The inventory includes square footage figure and is what Doug used to calculate the 410,410 square feet. A few things to be aware of: (1) the inventory was revised in 2006. Accordingly, Doug omitted all buildings constructed after 1997. (2) the buildings noted in handwriting at the end are not on the campus and therefore not included in the total. (3) the handwritten number 468,717 is the current square footage of all
buildings on the campus.

I hope this gives you all you need.

Dave

David Gehlert
Natural Resources Section
Environment & Natural Resources Division U.S. Department of Justice
1961 Stout St.
Denver, CO 80294
(303) 844-1386 (phone)
(303) 844-1350 (fax)
david.gehlert@usdoj.gov

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may contain confidential and privileged information. Any unauthorized use, disclosure or distribution is prohibited. Inadvertent dissemination of this message does not waive any applicable privilege. If you are not the intended recipient, please contact the sender and destroy all copies of this message.

-----Original Message-----
From: Stanish, David [mailto:david.stanish@ag.idaho.gov]
Sent: Tuesday, September 23, 2008 11:58 AM
To: Gehlert, David (ENRD)
Subject: FW: VA's square footage

This communication and its attachments are confidential and/or privileged. If you have received this communication in error, please immediately read the "NOTICE" appended below.

Dave -

Please see IDWR's request below.

Sincerely,

David I. Stanish
Deputy Attorney General

Natural Resources Division
Office of Attorney General
700 West State Street
Joe R. Williams Building, Second Floor
P.O. Box 83720
Boise, Idaho 83720

Phone: (208) 334-4549
Facsimile: (208) 854-8072
Email: david.stanish@ag.idaho.gov

NOTICE: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this notice is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return these papers to us at the address shown above via first class mail.

-----Original Message-----
From: Marshall, Aaron [mailto:Aaron.Marshall@idwr.idaho.gov]
Sent: Tuesday, September 23, 2008 11:54 AM
To: Stanish, David
Subject: RE: VA's square footage

David,

On behalf of IDWR, I would like to request a description of how Doug Lamb arrived at the total building square

footage of the VA Medical Cente 1997. What was the basis of his compu n (building plans, county assessor records,...etc.)? Can he provide documentation to support his computation? Please forward my request as necessary.
Thanks.

Aaron Marshall
Senior Water Resource Agent
Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098
(208) 287-4943
aaron.marshall@idwr.idaho.gov

-----Original Message-----
From: Stanish, David [mailto:david.stanish@ag.idaho.gov]
Sent: Tuesday, September 23, 2008 10:44 AM
To: Marshall, Aaron
Subject: FW: VA's square footage

This communication and its attachments are confidential and/or privileged. If you have received this communication in error, please immediately read the "NOTICE" appended below.

Hi Aaron -

Please find David Gehlert's description of the source of the 410,000 sq ft information below. Is this sufficient?

Sincerely,

David I. Stanish
Deputy Attorney General

Natural Resources Division
Office of Attorney General
700 West State Street
Joe R. Williams Building, Second Floor
P.O. Box 83720
Boise, Idaho 83720

Phone: (208) 334-4549
Facsimile: (208) 854-8072
Email: david.stanish@ag.idaho.gov

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-----Original Message-----
From: Gehlert, David (ENRD) [mailto:David.Gehlert@usdoj.gov]

Sent: Tuesday, September 23, 20 0:38 AM
To: Stanish, David
Subject: VA's square footage

David,

I think I have an answer to your question. You mentinoed the VA's square footage in 1987, but I think you meant 1997. That was the year of the VA's greatest use and I found an e-mail dated December of last year from Doug Lamb (the VA's engineer) to me giving the square footage heated in 1997 at 410,410, almost exactly the number you had recalled.
For what it's worth, the VA now has 439,694 square feet.

Let me know if you need anything else.

Dave

David Gehlert
Natural Resources Section
Environment & Natural Resources Division U.S. Department of Justice
1961 Stout St.
Denver, CO 80294
(303) 844-1386 (phone)
(303) 844-1350 (fax)
david.gehlert@usdoj.gov

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VAMC Boise, Idaho

Revision date 2/10/06

No.	Building No.	Square Ft.	Year	Use	Misc. Information	Roof Area	Roof Type
1	1	3,472	1863	Human Resources	Office Space	3,382	wood shingle
2	2	440	1931	Pump House		446	built-up
3	4	1,298	1870	Swing Space	Vacant	2,350	roll/wood shingle
4	6	3,065	1863	Eye Clinic	Exam and Treatment	4,000	comp shingle
5	8	8,946	1932	Eng. Shops & Dorm	Mech,Elec,Paint,Elec.	5,940	comp shingle
6	13	5,437	1885	Administration	Directors Suite	6,484	comp shingle
7	21	1,460	1925	Garage & Storage		1,898	wood shingle
8	23	13,829	1905	Mental Health	Drug & Alcohol,Occup. Th.	5,589	slate shingle
9	24	11,286	1905	AHEC & District Counsel	Office Space	5,600	comp shingle
10	27	47,508	1907	Hospital	Ward 2MS, TMS, Rehab	15,282	built-up/comp shingle
11	28	9,139	1906	Laundry	Seamstress	6,072	built-up/comp shingle
12	29	8,339	1907	Learning Resource Center	Med Library,Classroom,Conf.	4,620	comp shingle
13	30	5,460	1886	Sonna Reservoir	450,000 Gallons	6,384	comp shingle
14	34	20,507	1910	A&MM	Office Space,Warehouse	12,640	comp shingle
15	43	5,308	1909	A&MM,Optical Lab,TMS	Office,Lab,Warehouse	5,738	comp shingle
16	44	13,313	1909	Pharmacy,Union	Pharmacy,Swing Space	7,808	comp shingle
17	45	5,595	1909	Research/Infectious Disease	Office Space	6,122	comp shingle
18	46	8,817	1906	Boiler Plant & Eng. Shops	A/C,GeoTherm,Locks	7,148	built-up/comp shingle
19	48	3,405	1909	Grounds Shop	Shop,Storage,Office	3,072	corrugated metal
20	50	2,841	1890	Facility Management Service	Signs,Safety,Indust.Hygiene	4,032	comp shingle
21	52	882	1932	Garage & Storage		882	comp roll
22	66	1,440	1932	Garage & Storage		2,072	comp shingle
23	67	66,774	1932	Hospital	SDU,2P,Admin,Research	11,174	built-up/comp shingle
24	68		~~1932~~	Aeration Tank	23,500 Gallons		
25	69	193	1932	Gate House	Vacant	393	slate shingle
26	70			Electrical Generator	Serves Building 46		built-up
27	71	1,701	1932	Garage & Storage		2,050	comp roll
28	72	204	1941	Pump House		306	comp shingle
29	73	192	1971	Electrical Generator	Serves Building 67	192	metal roof
30	77	20,715	1950	Dietetics & Canteen	Print Rm,Tele,Kitchen,VCS	10,024	built-up
31	79	266	1957	Storage	Electrical	300	built-up
32	80		1928	Flagpole			
33	82		1976	Electrical Generator	1,000 kW		metal roof

34	83	880	1977	Main Switchgear			metal roof
35	85	67,424	1977	Clinical, ICU, ER	Surgery,Pharm,Xray,Endo	19,625	built-up
36	85A	25,379	1997	OutPatient Expansion	Pharm,Exam Rooms	26,248	built-up/comp shingle
37	87			Oxygen Storage	Serves Buildings 27,67,85,85A		
38	88	25,180	1985	Extended Care,RSAT	Extended Care,ECU	28,012	built-up/comp shingle
39	90	300	1984	Electrical Generator	Serves Buildings 27 & 77	240	built-up
40	91T		1984	Transformer T4	Serves Building 34		
41	92T		1984	Transformer T3	Serves Building 50 & 8		
42	93T		1984	Transformer T1	Serves Building 79 & 2		
43	94T		1984	Transformer T5	Serves Building 46		
44	95T		1984	Transformer T2	Serves Building 28 & 48		
45	96T		1984	Transformer T6	Serves Building 29 & T111		
46	97T		1984	Transformer T7	Serves Building 27		
47	98T		1984	Transformer T9	Serves Building 67		
48	99T		1984	Transformer T8	Serves Buildings 77 & 85A		
49	100T		1984	Transformer T10	Serves Building 85		
50	101T		1984	Transformer T11	Serves Building 13		
51	102T		1984	Transformer T12	Serves Building 6		
52	103T		1984	Transformer T13	Serves Buildings 4 & 44		
53	104T		1984	Transformer T14	Serves Buildings 1 & 24		
54	105T		1984	Transformer T15	Serves Buildings 23 & 45		
55	106	1,080	1985	Incinerator		1,080	built-up
56	107	280	1985	Pump House	Geothermal	280	built-up
57	108T		1985	Transformer T18	Serves Building 107		
58	109	17,000	1991	Research Lab		8,904	built-up
59	110	9,403	1989	Audiology, Muti-Media	Speech, Med Students	5,338	comp shingle
60	111T		1984	Transformer T19	Serves Building 43		
61	112T		1984	Transformer T20	Serves Buildings 109 & 110		
62	113T		1984	Transformer T17	Serves Building 106		
63	114	17,658	2001	Behavioral Health Center	Sub/Abuse & Mental Health	9,051	built-up
64	115	11,626	2005	Fiscal	Office Space	5,813	built-up
65	116T		1985	Transformer T16	Serves Building 88		
66	117T		2001	Transformer T23	Serves Building 114		
67	118		2003	Electrical Generator	Serves Building 109		
68	119T		1998	Transformer T22	Serves Buildings T112 & T113		
69	120T		2005	Transformer T24	Serves Building 115		
70	121T		1986	Transformer T21	Serves Buildings 23 & 45		

71	T108	1,848	1984	Research	Office Space	2,000	built-up
72	T109	621	1981	FMS	Storage	1,000	comp shingle
73	T110	2,577	1987	MAS	Office Space	2,700	built-up
74	T111	3,420	1992	Fiscal (MCCR)	Office Space	3,420	built-up
75	T112	1,437	1998	Residence	Residence On Call	1,700	comp shingle
76	T113	1,437	1998	Residence	Residence On Call	1,700	comp shingle
77	6713	1,041	1932	Connecting Corridor	1st floor	1,041	built-up
78	886713	536	1985	Connecting Corridor	1st floor	536	built-up
79	6727	2,068	1932	Connecting Corridor	Ground floor		
80	6727	2,068	1932	Connecting Corridor	1st floor		
81	6727	2,068	1932	Connecting Corridor	2nd floor	2,068	built-up
82	856727	777	1977	Connecting Corridor	1st floor		
83	856727	777	1950	Connecting Corridor	2nd floor	777	built-up
~~84~~	~~27to29~~	~~2,060~~	~~1989~~	~~Corridor~~	~~1st floor~~	~~2,060~~	~~built-up~~
		~~470,777~~ 468,717				265,593	

Vet Center 3552 SF
Twin CBOC 4200 SF
Caldwell CBOC 2824 SF

Keen, Shelley

From: Gehlert, David (ENRD) [David.Gehlert@usdoj.gov]
Sent: Monday, September 22, 2008 6:55 PM
To: Keen, Shelley
Cc: david.stanish@ag.idaho.gov; Peppersack, Jeff
Subject: Request to license permit # 63-09890

Attachments: #221972-v1-SRBA_VA_63-9890_Draft_License.PDF; #221974-v1-SRBA_VA_Draft_Licensing_Memo.PDF




#221972-v1-SRBA_VA_63-9890_Dra... #221974-v1-SRBA_VA_Draft_Licen...

Dear Ms. Keen,

This letter is to request that you being the process of licensing permit #63-09890. As you've probably heard from David Stanish, we would like to have this licensing expedited <<#221972-v1-SRBA_VA_63-9890_Draft_License.PDF>> <<#221974-v1-SRBA_VA_Draft_Licensing_Memo.PDF>> in order to complete settlement of ongoing litigation. Attached are a draft license and a draft license memo. I will be filing a late claim with the SRBA court as soon as my client confirms the accuracy of my draft.

Thanks you for your assistance in this matter. If you need any additional information, please do not hesitate to contact me.

Dave

David Gehlert
Natural Resources Section
Environment & Natural Resources Division U.S. Department of Justice
1961 Stout St.
Denver, CO 80294
(303) 844-1386 (phone)
(303) 844-1350 (fax)
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——DRAFT——

State of Idaho
Department of Water Resources

Water Right License

WATER RIGHT NO. 63-09890

Priority: April 19, 1982

Maximum Diversion Rate: 1.43 CFS
Maximum Diversion Volume: ~~612.8 AF~~628.6 AF

It is hereby certified that VETERANS ADMINISTRATION MEDICAL CENTER
500 W FORT ST
BOISE ID 83702-4598 has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated April 19, 1982; and has submitted Proof of Beneficial Use on November 28, 1989. An examination indicates that the works have a diversion capacity of 1.43 cfs of water from:

SOURCE
GROUND WATER

and a water right has been established as follows:

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL DIVERSION VOLUME	
HEATING	01/01 to 12/31	1.43 CFS	~~612.8 AF~~	628.6 AF

LOCATION OF POINT(S) OF DIVERSION:
GROUND WATER SE¼SW¼ Sec. 2, Twp 03N, Rge 02E, B.M. ADA County

PLACE OF USE: HEATING

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
03N 02E 2										X	X	X					

CONDITIONS OF APPROVAL

1. Heating use is for the space heating of buildings.

2. ~~Some of the water use authorized by this right is claimed with an earlier priority date on Snake River Basin Adjudication Claim No. 63-29713. If Claim 63-29713 is decreed as it is claimed, this right shall be diminished by the amount necessary to avoid any redundancy of water rights.~~

3. Return flow discharged to a subsurface system must be authorized by a separate injection well permit.

4. All water diverted pursuant to this water right is to be reinjected into the geothermal aquifer from which it is diverted.

5. Upon specific notification by the Department, the right holder shall (a) install and maintain acceptable measuring device(s), including data logger(s), temperature gauge(s), and totalizing fluid meter(s), at the authorized point(s) of diversion and reinjection in accordance with Department specifications; (b) report measuring information to the Department upon its request; and (c) contribute a reasonable pro-rata share of costs for periodic updating of the Idaho Water Resources Research Institute, University of Idaho, Boise Front Low Temperature Geothermal Resource Management Area aquifer computer

model or its successor. This condition will not be construed to obligate the expenditure of funds by any public agency beyond the amounts available to the agency for such purposes through lawful authorization and appropriation.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

MEMORANDUM

To: **Water Right File No. 63-9890**

From: **Aaron Marshall**

Date: **October 25, 2007**

Re: **Water Right No. 63-9890, License Processing**

Chronology:

Application for Permit was approved December 14, 1982, with a priority date of April 19, 1982.

A Request for Extension of Time to submit proof of beneficial use was approved on November 30, 1987 with a new proof due date of December 1, 1989. Applicant states, "The distribution system from the production to the injection well and all laterals to the buildings are complete. Retrofit of the buildings is proceeding with completion estimated to be during the 1988-89 heating season. Approximately 40% of the $3.7 million construction is completed to date."

Proof of Beneficial Use was received on November 28, 1989, and indicates the date water was first diverted and beneficially used was October 2, 1987.

The field examination was initially completed on November 18, 1993, by Cindy Hodges. A condition of permit approval was that an access port or other device be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department. Cindy did not complete the field examination report or make any recommendations since this condition was not satisfied at the time of her examination. As a result, Cindy provided a memorandum to the file describing her findings. She explained that the current configuration "does not satisfy our requirements to measure total flow" and that a complete digitized measuring system could be installed in August 1994.

The Beneficial Use Field Report was completed by Dan Nelson based on a second field exam conducted on August 9, 2001. Dan included flow records from 1989 through 2001 provided by the VA to IDWR hydrologist Ken Neely. Based on the data provided, Dan recommended the issuance of a license with a maximum flow rate of 1.43 cfs and a total annual diversion volume of 624.9 acre-feet.

Analysis:

Based on flow data records, the maximum flow diverted was **1.43 cfs**, on November 3, 1997.

Cindy Hodges determined, during the 1993 field examination, that the measuring device configuration was not adequate to measure total flow. She indicated that the new digitized measuring system could not be installed until August 1994. Thus, the earliest data providing an accurate total annual diversion volume is 1995. In 1997, the highest use period prior to the 2001 field examination, the diversion total was 202.99 million gallons.

Based on IDWR Administrator's Memorandum, Application Processing No. 23 and Analysis of the Annual Diversion Requirement for Water Right Permit 63-9341 prepared by David B. Shaw of ERO Resources Corporation for the Idaho Attorney General's Office, I computed the maximum annual diversion volume for water right no. 63-9890 based on the following:

- Water was first diverted and put to beneficial use on October 2, 1987.
- Proof of Beneficial Use was received on November 28, 1989.
- The only full calendar year period during this time was 1988.

- The 1997, annual diversion volume was 202.99 million gallons.
- The total number of heating degree days for Boise in 1997 was 5,219.
- The ratio of water volume diverted to heating degree days for 1997 was…

  $202{,}990{,}000_{gallons} / 5{,}219_{HDD} = 38{,}894.4_{gal/HDD}$
- The total number of heating degree days for Boise in 1988 was 5,580.
- Applying above calculations to estimate the volume of water diverted and put to beneficial use in 1988…

  $5{,}580_{HDD} \times 38{,}894.4_{gal/HDD} = 217{,}030{,}752_{gallons}$
- Based on information provided recently by Doug Lamb, the VA Medical Center engineer, the total building area heated in 1997 was ~~420,440~~ 410,000 ft². In 1988, the total building area heated was 386,940 ft², ~~8~~6% smaller than in 1997. Applying an ~~8~~6% reduction to the above calculation results in a more accurate estimate of volume of water diverted and put to beneficial use in 1988 …

  $217{,}030{,}752_{gallons} \times 0.~~92~~ 94 = ~~199{,}668{,}292~~ 204{,}824{,}096_{gallons}$

  $204{,}824{,}096~~199{,}668{,}292~~_{gallons} / 325{,}850_{gal/AF} =$ **~~612.8~~628.6 acre-feet**

Keen, Shelley

From: Keen, Shelley
Sent: Thursday, June 05, 2008 5:38 PM
To: dana@idahowaterlaw.com
Subject: FW: Possible approval condition for VA geothermal right

Dayna,

See below for the text and usage description for condition 122, which is the one we discussed in our meeting on Monday about the draft license for the VA geothermal water right.

Text
The right holder shall not divert water at a rate exceeding what is reasonably necessary for the beneficial use authorized by this right.

Usage Description
Implemented on 2/13/2002 for use on fish propagation permits, licenses, and transfers. This condition is intended give IDWR leverage to prevent water users from diverting large amounts of water for relatively few pounds of fish production. Replaces condition 042. See water right files 36-7725 and 36-7176 for more information.

The condition is essentially a restatement of the longstanding legal principal that you can't waste water. However, it is worded vaguely, and we could be in a bind if, once the license is issued, someone asked us to enforce this provision. How would we interpret "reasonably necessary?" With fish propagation, we have a pretty good idea how much water is needed to raise a certain amount of fish. With some other uses, beneficial use is more difficult to quantify, especially if we have to acccount for the heat content of the water and various methods for extracting that heat value as well. Given these potential complications, IDWR would prefer not to place this condition on the license.

Shelley Keen
Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098
(208) 287-4947
shelley.keen@idwr.idaho.gov

Marshall, Aaron

From: Neely, Ken
Sent: Tuesday, October 23, 2007 11:29 AM
To: Marshall, Aaron
Subject: RE: VA Medical Center Diversion Records

2000	191.20
2001	156.86
2002	152.21
2003	154.04
2004	147.10
2005	153.83
2006	146.87

-----Original Message-----
From: Marshall, Aaron
Sent: Monday, October 22, 2007 4:18 PM
To: Neely, Ken
Subject: VA Medical Center Diversion Records

Greetings Ken,
I have another data request that I hope you'll be able to help me with. Can you provide diversion records for the VA Medical Center's geothermal water for calendar year 2000 through 2006? This should be the last bit of missing data we need. Thanks.

Aaron Marshall
(208) 287-4943
aaron.marshall@idwr.idaho.gov

Marshall, Aaron

From: Neely, Ken
Sent: Monday, October 15, 2007 4:07 PM
To: Marshall, Aaron
Subject: VA production

Aaron,

For calendar year 1997, I get a total of 202.99 million gallons of production for the VA system. Now this is the amount of water that goes through the totalizer. There is some water that bypasses the totalizer because it goes to the laundary facility. To my knowledge, the VA has never figured out a way to run this water through a totalizer. I remember that they gave me a rough estimate of how many gallons per minute is bypassed, but I can't remember the amount right now.

Ken

Kenneth W. Neely, Technical Hydrogeologist
Idaho Department of Water Resources
Phone: 208-287-4852
Cell: 208-559-5691
Fax: 208-287-6700
Statewide Program Website:
www.idwr.idaho.gov/hydrologic/info/statewide/
Geothermal Website:
www.idahogeothermal.org

LICENSE REVIEW CHECKLIST

Permit No 63-9890 Date: 5-28-02 Reviewer: Kay Walker

Change/OK

Name/Address change per exam

Source ok
Point of Diversion: ok

Does change clarify original intended source? If no, void permit.
Change (P39/P49) Add (P45/P44) Feds (P40)

W32 (multiple in 1/4/1/4)
W36 (overlap)
W59 (subdivision description)

Place of Use ok

Change (P41/P49) Add (P41/P44) Feds (P43)

W60 (subdivision description)
W27 (ppu acre limit)

Overlaps: Right(s): 63-29713 - claim only -
File reviewed____ Profile reports printed ✓

P/D & P/U amend (P37) Feds (P48)

Rate of Diversion:

Permitted rate 2.23 cfs
Fee Limit 3.0 cfs
Measured 1.43 cfs
Theoretical _____ cfs

Recommended Total Diversion Rate 1.43

Season of Use per new Standards

Water Uses ok Change (P46)

Irrigation	____ cfs	____ af
Stockwater	____ cfs	____ af
Domestic	____ cfs	____ af
Heating	1.43 cfs	825.0 af
____	____ cfs	____ af
Total	1.43 cfs	825.0 af

Irrigation - overlap(R58-R61, **R62-R65, R66-R69)**
supp. Gw (WB7/065/104)
overlap spec combined rts (W35)
<1 acre (W31)
Domestic (W01/wb5/070/071/075)
Power (W42 or W43/025/027/R22 or R23
Fish (042)
Fire (077)
Water Quality (106/R07)
Payette -- (W22/047/27A)
Stockwater for US (R37)

Volume Determination
____ cfs x 1.9835 x ____ days = _____ af **(vs)** _____ acres x _____ (FHR) = _____ af

Remarks: _____

Additional Conditions ____ Watermaster Control
____ GW Measurement/Measuring Device
____ Other
Trust R55 -- remove 051)
Non-trust (048)

GW Dist? _____
Water Msmt. Dist? _____
Crit. GWMA? _____
GWMA? _____
Government Lots? _____

Advance Priority? ____yes ✓ no If yes, explain why below.

SRBA Claim? NO - not req'd

Adjust memo ____

Amend Letters _____ **P87, S06** **Second Amendment Notice** _____ **S06**

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 63-29713

WATER RIGHT NUMBER: 63-29713

Owner Type	Name and Address
Also Known As	VETERANS AFFAIRS
	WASHINGTON, DC 20420
Current Owner	UNITED STATES OF AMERICA DEPARTMENT OF VETERANS AFFAIRS 810 VERMONT AVE NW WASHINGTON, DC 20420
Attorney	HAUGRUD K JACK OR D ZANE OR G GARVER US DEPARTMENT OF JUSTICE ENV & NR DIVISION 550 WEST FORT ST BOX 33 BOISE, ID 83734 (202)272-4134

Priority Date: 04/09/1873

Basis: Reserved

Status: Active

Source	Tributary
GROUND WATER	

Beneficial Use	From To	Diversion Rate	Annual Volume
HEATING	1/01 to 12/31	2.760 CFS	
	Total Diversion:	2.760 CFS	

Location of Point(s) of Diversion

GROUND WATER NW1/4SW1/4 Sec. 2, Twp 03N, Rge 02E, B.M.
ADA County

GROUND WATER SE1/4SW1/4 Sec. 2, Twp 03N, Rge 02E, B.M.
ADA County

Place of Use

HEATING

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 02E 2									X	X	X						
03N 02E 3																X	
03N 02E 11					X												

Total Acres: 0

Conditions of Approval:

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 63-29713

Remarks:

1. General TOTAL QUANTITY CLAIMED IS 2.76 CFS; EXISTING USE IS 1.93 CFS AND FUTURE USE IS 0.83 CFS.^^ PLACE OF USE SHOWN IS PRESENT PLACE OF USE.^^ LEGAL DESCRIPTION OF RESERVATION: THE ORIGINAL RESERVATION OF APRIL 9, 1873, WAS DESCRIBED AS FOLLOWS: "BEGINNING AT A POINT 2145 FEET, N. 68 DEG., 34 MIN. W FROM THE FLAGSTAFF, AT FIR POST 8 FEET HIGH AND 1 FOOT IN DIAMETER, SQUARED AT TOP AND EACH FACE MARKED 'U.S.'; THENCE RUNNING S. 20 DEG. E. 54.32 CHAINS, TO POST 1.21 CHAINS FROM N.E. CORNER OF SMALL LOG BUILDING BEARING S. 35 DEG. E.; THENCE RUNNING N. 70 DEG. E. 117.50 CHAINS TO STAKE 4 INCHES SQUARE, 2 1/2 FEET HIGH; THENCE RUNNING N. 20 DEG. W. 54.32 TO PILE OF STONES; THENCE RUNNING S. 70 DEG. W. 117.75 CHAINS TO THE POINT OF BEGINNING AND CONTAINING 638 ACRES, MORE OR LESS. ALL THE BEARINGS ARE TRUE MERIDIAN." THE RESERVATION OF FEBRUARY 13, 1911, WAS DESCRIBED AS FOLLOWS: "IN T. 3N, R. 3E, B.M., LOT 4 AND THE SE 1/4 OF THE NE 1.4 SEC. 5 AND LOTS 1 AND 2, SEC. 6. IN T. 4N, R. 3E, B.M., THE SE 1/4 SEC. 8; THE S. 1/2 SEC. 9; ALL OF SEC. 17, THE NW 1/4, THE E 1/2 AND THE SW 1/4 SEC. 20, ALL OF SEC. 21; THE W 1/2 SEC. 22, THE W 1/2 SEC. 27; ALL OF SECS. 28, 29, AND 30; ALL OF SEC. 31, EXCEPT 20.596 ACRES EMBRACED IN 'SUNNYSIDE LODE' PATENTED TO W.P. RICHARDS AND DAVID GEKELER, AND ALL OF SEC. 32; THE N. 1/2 OF THE NW 1/3 AND THE SW 1/4 OF THE NW 1/4 SEC. 33." LIST OF DOCUMENTS CREATING THE FEDERAL RESERVATION: EXECUTIVE ORDER OF APRIL 9, 1873 EXECUTIVE ORDER OF FEBRUARY 13, 1911 AS A MATTER OF COMITY, THE UNITED STATES FILED FOR AND RECEIVED PERMITS 63-09890 AND 63-10339 FOR EXISTING HEATING USES ENCOMPASSED WITHIN THIS RESERVED RIGHT CLAIM.^^ THE PRESENT FEDERALLY OWNED PROPERTY ADMINISTERED BY THE DEPARTMENT OF VETERANS AFFAIRS IS SHOWN ON THE MAP ATTACHED TO CLAIM.^^ BASIS OF CLAIM: FEDERAL RESERVED WATER RIGHT AND HISTORICAL USE.^^ FUTURE DIVERSION POINTS: NOT YET SELECTED.^^ VERIFICATION STATEMENT IS ATTACHED TO CLAIM.^^

Comments:

Dates and Other Information:

Claim Received Date: 3/25/1993
Enlargement Use Priority Date:
Enlargement Statute Priority Date:
State or Federal: F
Owner Name Connector: AND
Water District Number:
Generic Max Rate Per Acre:
Generic Max Volume Per Acre:
Swan Falls Trust or Nontrust:
Swan Falls Dismissed:
DLE Act Number:
Carey Act Number:
Mitigation Plan: False

Element Reviewed/Verified Dates:

Element	Last Reviewed Date	Reviewer	Last Verified Date	Verifier	Status

Verification Log:

Element	Date Time Stamp	Reviewer	Log text

Form 219
6/92

RECEIVED
OCT - 2 2001
Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 63-9890

1. Owner: VETERANS ADMINISTRATION MEDICAL CENTER Phone No. 422-1000

Current Address: 500 WEST FORT STREET, BOISE, ID 83702-4598

2. Accompanied by: PAT FLANIGAN AND DAVE DOESCHER EXAM DATE : 8/9/2001

Address: SAME AS ABOVE Phone No. SAME AS ABOVE

Relationship to Permit Holder: MAINTENANCE ENGINEER AND MAINTENANCE OPERATOR

3. Source: GROUNDWATER tributary to N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-10153, 63-5220, 63-5221,63-10339, 63-29713, 63-29714, 63-29765, 63-9890

2. 2. Other water rights with the same point of diversion: 63-10153, 63-5220, 63-5221,63-10339, 63-29713, 63-29714, 63-29765, 63-9890

C. DIVERSION AND DELIVERY SYSTEM

1. **Point(s) of Diversion:**

Ident No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
GEOTHERMAL WELL	*		SE	SW	2	3N	2E	ADA	VISUAL INSPECTION AND PLOTTING GPS ON AERIAL PHOTO.
INJECTION WELL	*		NW	SW	2	3N	2E	ADA	SAME AS ABOVE

* BOTH WELLS ARE WITHIN THE BORDERS OF THE FORT BOISE MILITARY RESERVE.

2. Place(s) of Use: Indicate Method of Determination SAME AS POINT OF DIVERSION

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	2E	2										X	X	X					

PLEASE NOTE: The X marked in the chart denotes the place of use for the heating portion of this permit. The place of use entirely within the borders of the Fort Boise Military Reserve.

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/pipe i.d. as applicable.

SEE ATTACHED SHEET.

YES Copy of USGS Quadrange Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

YES Aerial Photo Attached (required for irrigation of 10+ acres).

YES Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
GEOTHERMAL WELL	US ELECTRIC MOTORS	50/22.2 VARIABLE SPEED PUMP	365TPWPI	PEABODY FLOWAY	BKMH
2 IDENTICAL INJECTION PUMPS	LINCOLN	75 Hp FOR BOTH	3215598	PACO PUMPS	87A00314A
3 IDENTICAL HEAT LOOP PUMPS	LINCOLN	25 Hp FOR ALL THREE	3224805	PACO PUMPS	87A00551C

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

The applicant has been submitting reports from their flow meters of the last 12 years. These records are being held in Ken Neely's office for review. Various meters have been used over the years. I used a comparison of the all of the years and feel that the readings are fairly representative of the actual diversion of water for this system.

E. NARRATIVE/REMARKS/COMMENTS

Cindy Hodges performed a field exam on this permit in 11/18/1993. Please see her narrative memo dated 11/19/1993 for a complete explanation of the system. The system has changed very little since that time and is still set to operate the same way.

OVERLAP

A number of water rights overlap the point of diversion and place of use. However, the only significant rights are water rights 63-29713 and 63-10339. These rights are for heating from the geothermal well. 63-29713 is a reserved right and it is not known if this right will be approved or accepted in the Snake River Basin Adjudication (SRBA). 63-29713 does request enough water to cover the entire geothermal use, but they are requesting a priority date before the well was even drilled. Therefore, we can license this right with a condition that if 63-29713 is decreed then this right will no longer be valid.

63-10339 was filed after this permit. This permit covers all of the geothermal use now being used at the hospital. Therefore, I have recommended that 63-10339 be canceled and this right be the only license for geothermal use for the hospital.

RECOMMENDATIONS:

I recommend that this permit be licensed for the full capacity of the well at 1.43 cfs and maximum usage of the well within the last 12 years of 624.9 afa. I also recommend that this permit be licensed with a condition that if 63-29713 is decreed that this license will be canceled to avoid duplication of water rights.

Have conditions of permit approval been met? _X__ yes ___ no

F. FLOW CALCULATIONS YES Additional Computation Sheets Attached

Measured Method:

640 gpm peak flow rate / 448.8 = 1.43 cfs

Permit request 2.23 cfs and only 1.43 cfs has been used. Therefore the permit should be limited to 1.43 cfs.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) =

$V_{D.R.}$= [Diversion Rate (cfs)] x (Days in Irrigation Season) x 1.9835 =

V = Smaller of $V_{I.R.}$ and $V_{D.R.}$=

B

2. Volume Calculations for Other Uses:

Maximum yearly volume was reported to the Idaho Department of Water Resources during the 1997 year. The volume reported was 203,610,000 gallons.

203,610,000 / 325850 = 624.9 afa Geothermal Water used in this facility.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial use	Period Of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
HEATING	1/1	12/31	1.43 CFS	624.9 AFA
TOTAL			**1.43 CFS**	**624.9 AFA**

2. Recommended Amendments

__ Change P.D. as reflected above __ Add P.D. as reflected above __ None

__ Change P.U. as reflected above __ Add P.U. as reflected above __ Other

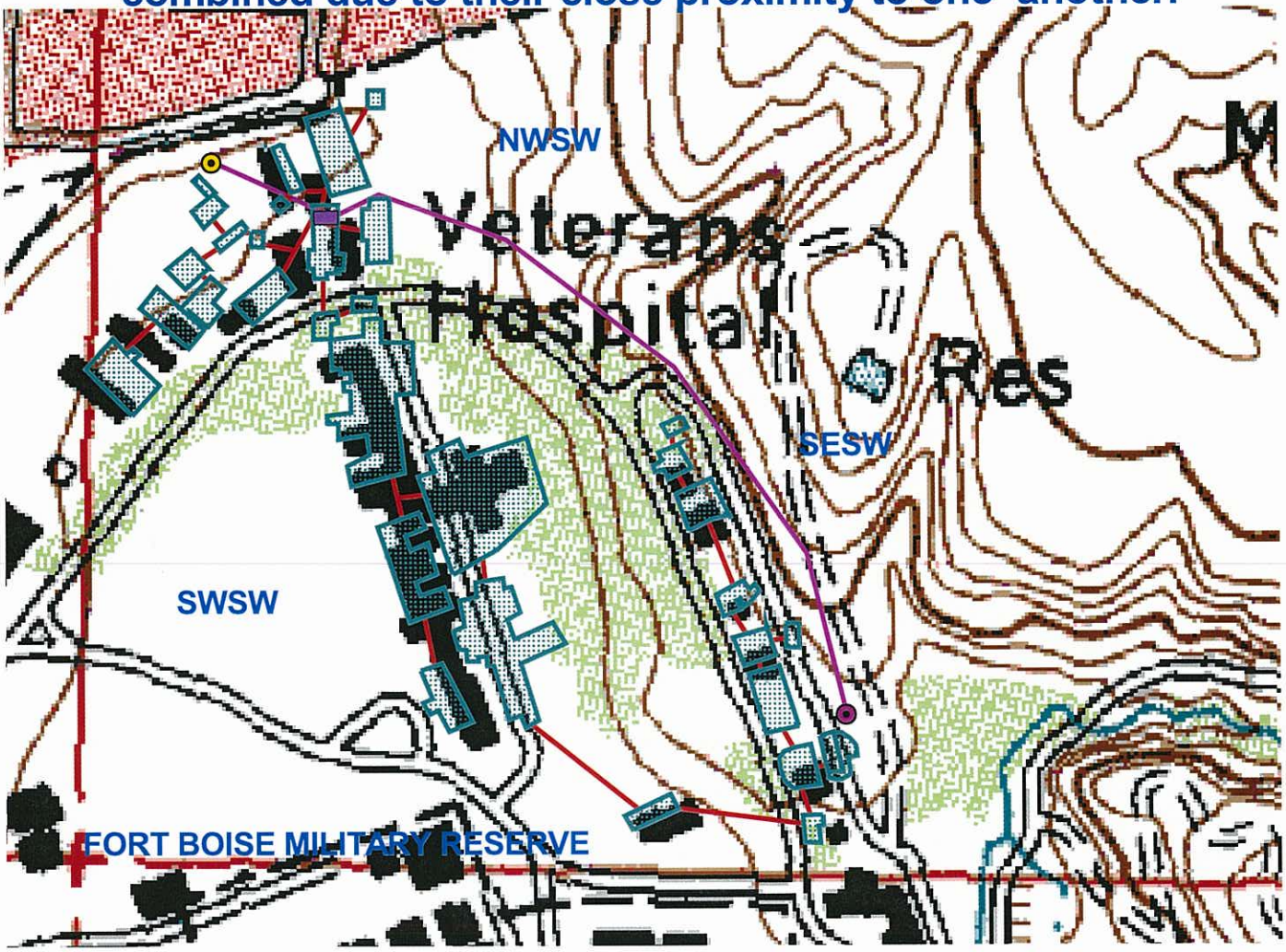
I. AUTHENTICATION DANIEL A. NELSON – SENIOR AGENT

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____ SEAL

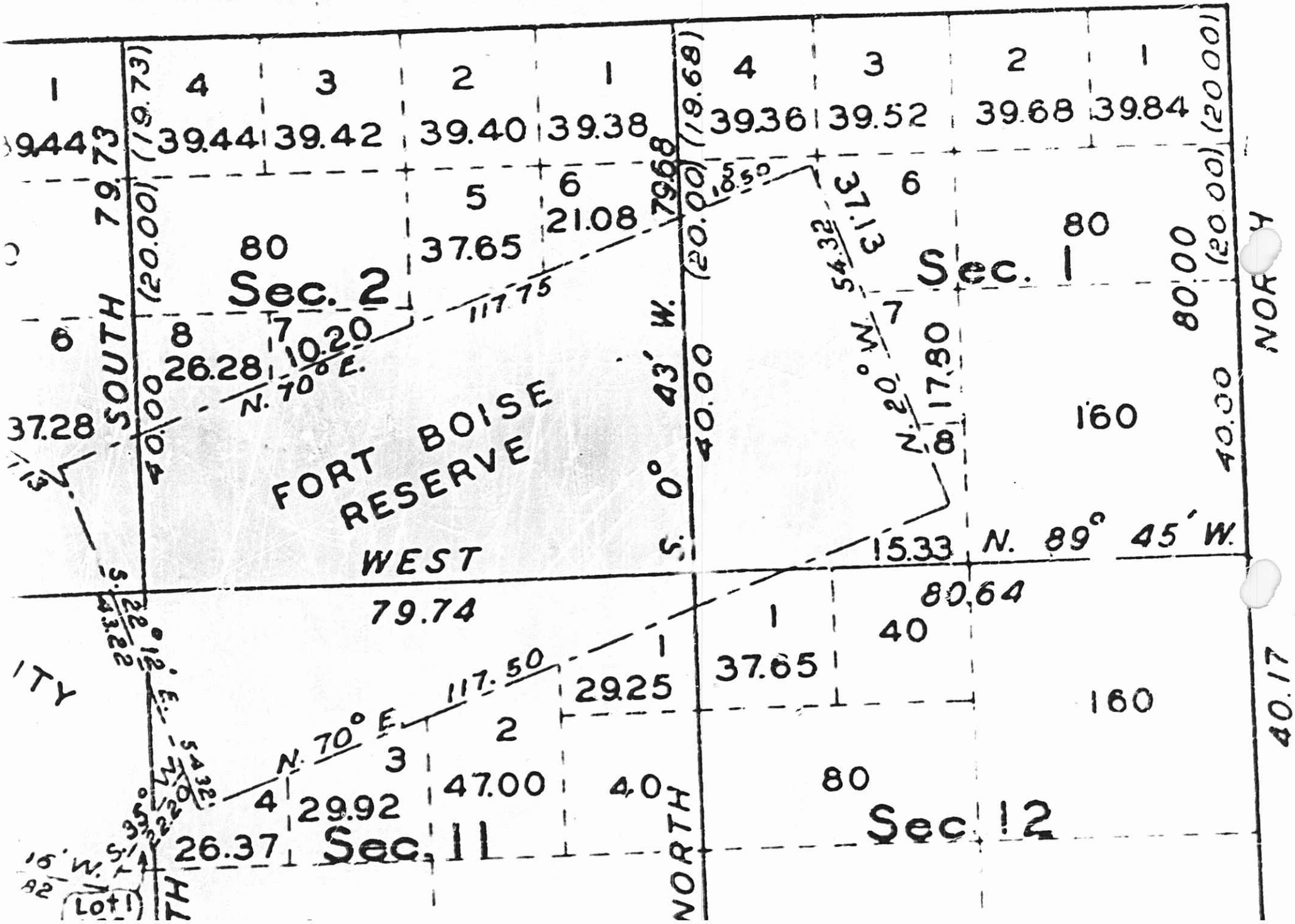
63-10339 AND 63-9890
GEOTHERMAL SYSTEM DIAGRAM
T3N R2E S2

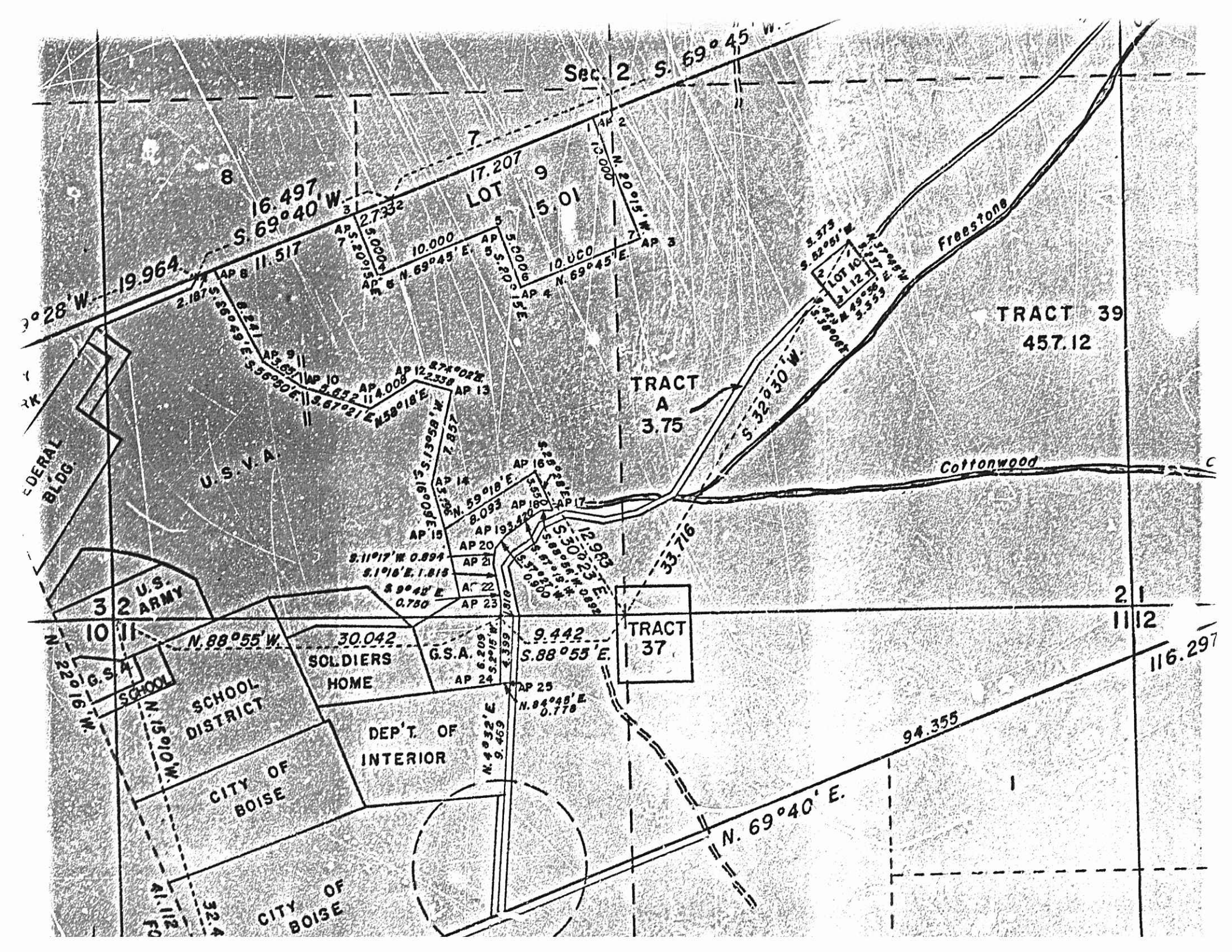
PLEASE NOTE: This diagram is not to scale and only estimates the actual delivery system. Some of the buildings have been combined due to their close proximity to one another.

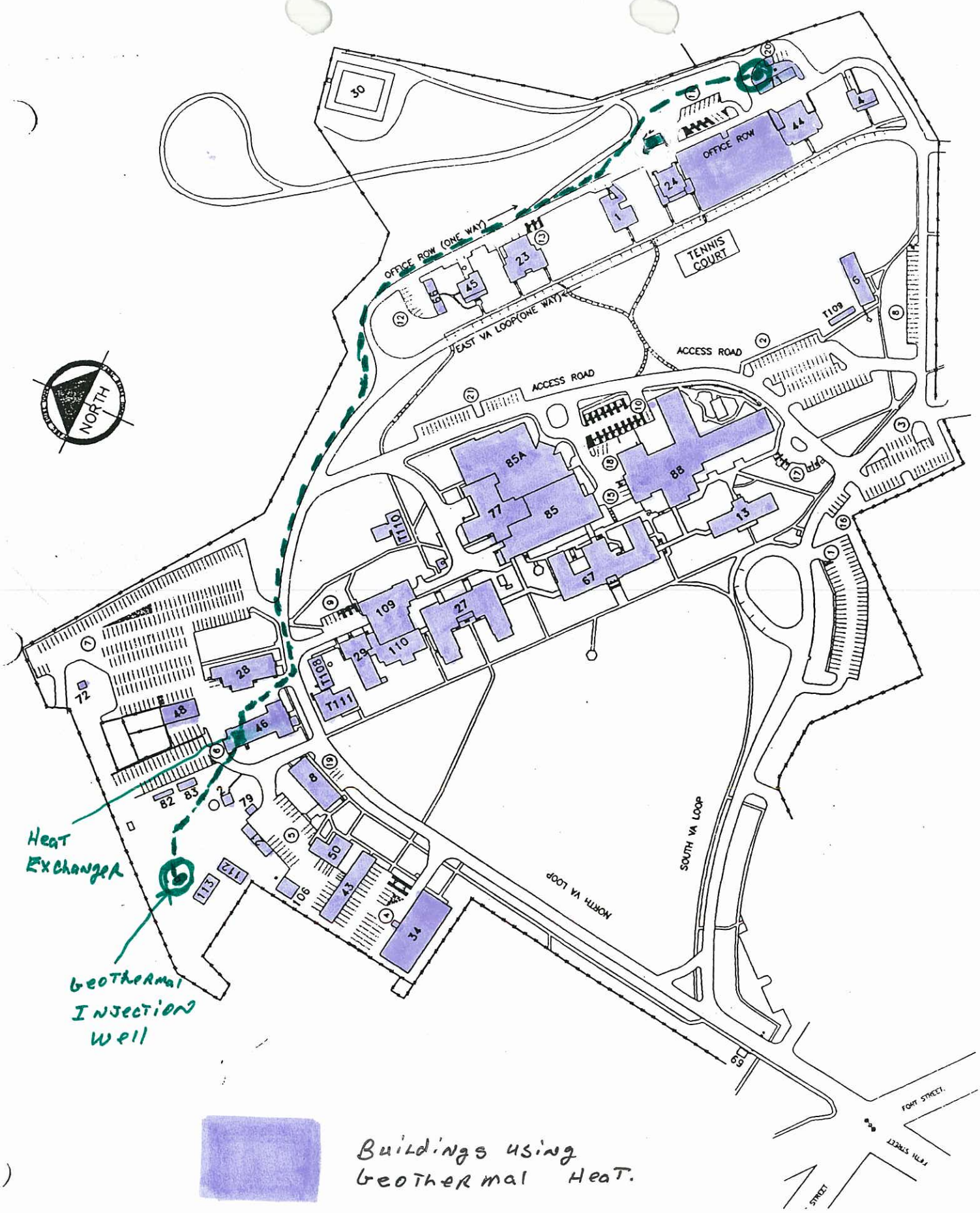


- Heat Exchanger
- Approximate Area Heating Used
- Estimated Heating Connections to Buildings
- Injection Well
- Geothermal Well
- Mainline Carring Geothermal Water
- Section Lines
- 1/4 1/4 lines

N
W
E
S

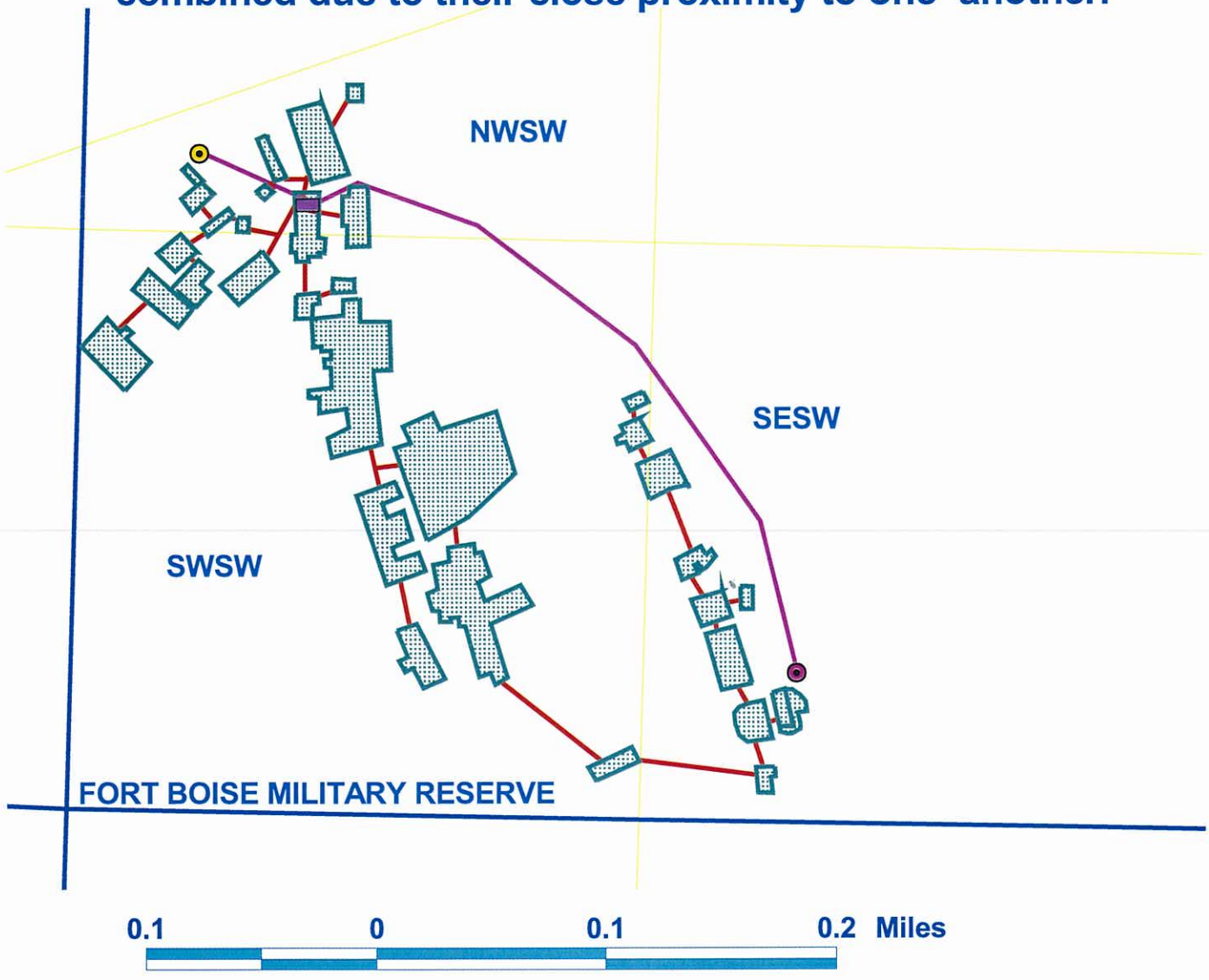

Sec. 2
Sec. 1
Sec. 11
Sec. 12
FORT BOISE RESERVE
SOUTH
NORTH
WEST
79.74
80
160
40
37.28
39.44
39.42
39.40
39.38
39.36
39.52
39.68
39.84
37.65
21.08
26.28
10.20
17.80
15.33
80.64
29.25
47.00
29.92
26.37
40.17
80.00
40.00
117.75
117.50
N. 70° E.
N. 20° W.
N. 89° 45' W.
S. 0° 43' W.
S. 22° 12' E.
S. 43° 22' W.
S. 54° 32' W.
N. 54° 32' E.
(20.00)
(19.73)
(19.68)
(20.001)
Lot 1


Sec. 2 S. 69° 45' W.
S. 69° 40' W.
16.497
17.207
19.964
11.517
LOT 9
15.01
LOT 8
LOT 7
LOT 10
LOT 11
LOT 12
TRACT 39
457.12
TRACT A
3.75
TRACT 37
U.S.V.A.
FEDERAL BLDG.
U.S. ARMY
SOLDIERS HOME
G.S.A.
SCHOOL DISTRICT
CITY OF BOISE
DEP'T. OF INTERIOR
Freestone
Cottonwood
S. 32° 30' W.
33.716
12.983
S. 30° 23' E.
30.042
9.442
S. 88° 55' E.
N. 88° 55' W.
N. 69° 40' E.
94.355
116.297
N. 69° 45' E.
S. 69° 45' W.
N. 20° 15' W.
S. 20° 15' E.
10.000
13.000
5.000
2.738
2.187
6.281
7.857
8.093
4.399
9.469
0.778
0.894
1.815
0.750
0.900
0.898
AP 1
AP 2
AP 3
AP 4
AP 5
AP 6
AP 7
AP 8
AP 9
AP 10
AP 11
AP 12
AP 13
AP 14
AP 15
AP 16
AP 17
AP 18
AP 19
AP 20
AP 21
AP 22
AP 23
AP 24
AP 25


NORTH
OFFICE ROW (ONE WAY)
EAST VA LOOP (ONE WAY)
OFFICE ROW
TENNIS COURT
ACCESS ROAD
ACCESS ROAD
SOUTH VA LOOP
NORTH VA LOOP
FORT STREET
Heat Exchanger
Geothermal Injection Well
Buildings using Geothermal Heat.
Geothermal water mainline
Geothermal Production & Injection wells

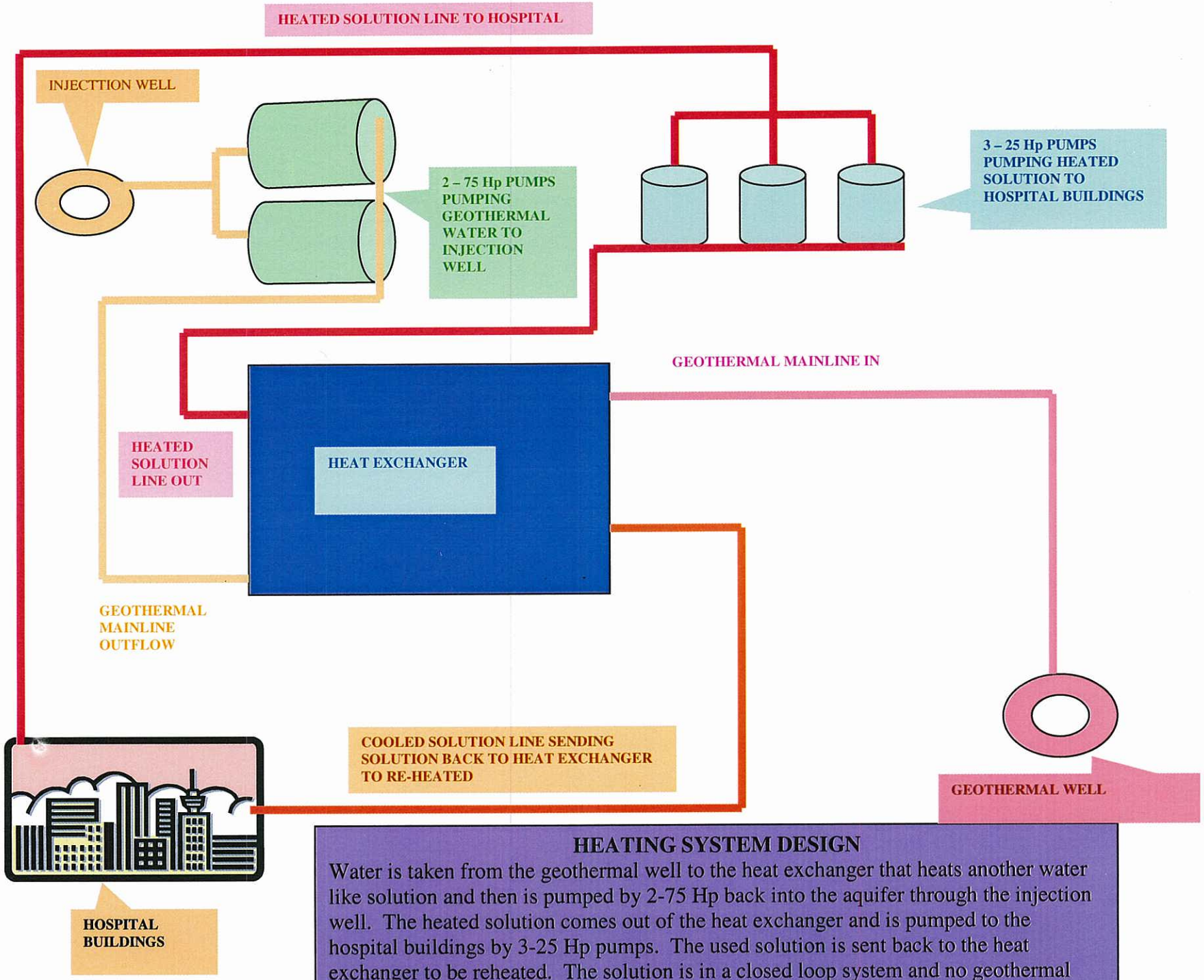
63-10339 AND 63-9890
GEOTHERMAL SYSTEM DIAGRAM
T3N R2E S2

PLEASE NOTE: This diagram is not to scale and only estimates the actual delivery system. Some of the buildings have been combined due to their close proximity to one another.



- Heat Exchanger
- Approximate Area Heating Used
- Estimated Heating Connections to Buildings
- Injection Well
- Geothermal Well
- Mainline Carring Geothermal Water
- Section Lines
- 1/4 1/4 lines

N
W E
S

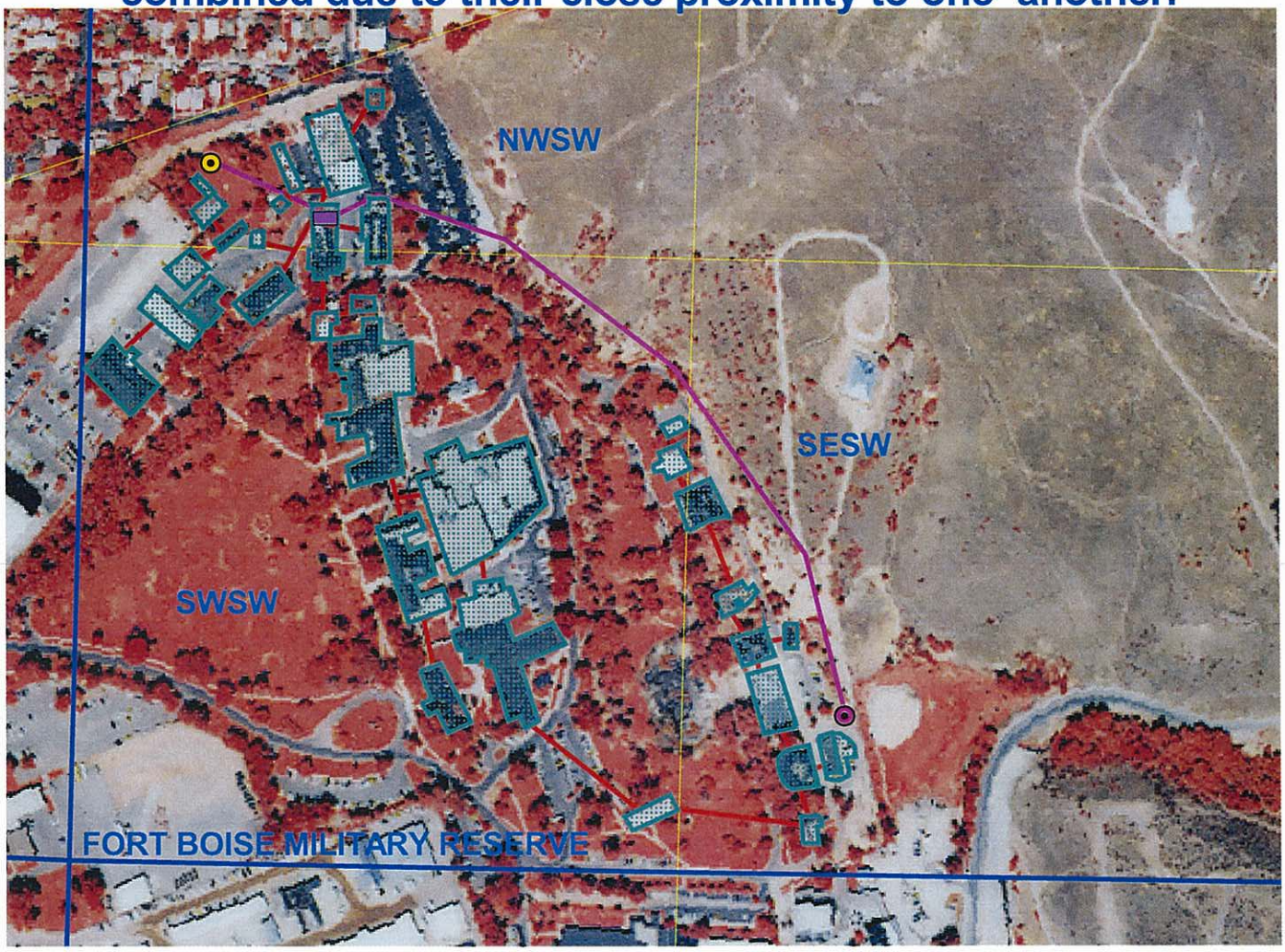


HEATING SYSTEM DESIGN

Water is taken from the geothermal well to the heat exchanger that heats another water like solution and then is pumped by 2-75 Hp back into the aquifer through the injection well. The heated solution comes out of the heat exchanger and is pumped to the hospital buildings by 3-25 Hp pumps. The used solution is sent back to the heat exchanger to be reheated. The solution is in a closed loop system and no geothermal water is sent to the buildings.

63-10339 AND 63-9890
GEOTHERMAL SYSTEM DIAGRAM
T3N R2E S2

PLEASE NOTE: This diagram is not to scale and only estimates the actual delivery system. Some of the buildings have been combined due to their close proximity to one another.



0.1 0 0.1 0.2 Miles

- Heat Exchanger
- Approximate Area Heating Used
- Estimated Heating Connections to Buildings
- Injection Well
- Geothermal Well
- Mainline Carring Geothermal Water
- Section Lines
- 1/4 1/4 lines

N W E S

November 19, 1993

TO: Files 63-09890 and 63-10339

FROM: Cindy Hodges, Sr Water Resource Agent CJH

RE: SYSTEM DESCRIPTION AND MEMO TO FILES JUSTIFYING DELAY IN LICENSING RECOMMENDATION UNTIL MEASURING DEVICE REQUIREMENT IS SATISFIED

USE IS FOR GEOTHERMAL HEATING SYSTEM AT VETERAN'S ADMINISTRATION MEDICAL CENTER COMPOUND, BOISE. A BENEFICIAL USE EXAM WAS CONDUCTED ON 11/18/93.

This system utilizes a single geothermal production well, 16" X 1666', constructed in 1983, and a geothermal injection well, 16" X 2300', constructed in 1987. With a source temperature of 162 degrees F, the system generates space heat for all buildings and heat for domestic hot water at the compound. None of the geothermal flow (source) is consumed; all is contained and is delivered back to the aquifer via the injection well at a temperature between 130 and 140 degrees F. All main delivery and injection lines for source water are insulated 8" steel. (?)

The majority of the source flow is delivered through a main water-to-water heat exchanger at the old boiler plant and used to heat and re-heat cold water within two 4" closed-loop heat lines which serve most buildings. Within each building, a smaller heat exchanger(s) uses some of the energy from the heat line to heat domestic hot water. A small amount of the diverted source flow is drawn off just past the pump (on 4" line) and used directly for heating seven buildings which are uphill from the boiler plant. These buildings also have hot water heating equipment. This flow is not routed through the heat exchanger, but is delivered directly to the injection line. A single building is heated using a loop off of the injection line as it exits the boiler plant.

A two-speed (22.2/50 HP) motor and 4-stage pump are installed on the source well. The pump runs continuously year-round on low speed (for hot water heating only in warm months), and is operated at high speed during colder periods. Temperatures at the heat exchanger are regulated with a by-pass valve. On low pump speed and at warmer outside temperatures, the by-pass valve remains open. As outside temperatures drop, the by-pass valve is closed incrementally, allowing more of the total source flow to enter the heat exchanger. When additional source heat is required, pump is switched to high and by-pass valve is partially opened, then closed down as required. During extreme cold, injection pumps may operate, acting as booster pumps to the entire system. The decreased pressure at the heat exchanger will enable the source pump to divert additional flows, and the injection pumps force the injection well to accept the higher return flows.

In the event of source well or pump failure, this entire system may be backed up with the old (gas-fired?) boiler, using the existing 4" heat lines.

This system is fully developed and operational with a measuring device installed on one geothermal line. However, the placement of the device makes it impossible to obtain a total flow from the source, as the device is located just above the entry to the heat exchanger, and below the by-pass valve. Neither the direct line heating the seven upper buildings or the heat exchanger by-pass line have a measuring device. While this placement enables the system operators to monitor temperatures at the heat exchanger, it does not satisfy our requirements to measure total diverted flow. Past flow records from this device and the associated graphic recorder which have been collected and submitted to this department are erroneous and misleading because they do not represent total flow. The gentlemen who assisted me during the exam indicated that all the instruments and components for a new, digitized measuring system had been received, but could not be installed until the production pump was taken off-line for routine service in August, 1994. Ken Neely informed me that he and Paul Castelin have reviewed this system and made recommendations as to the placement of the new measuring device(s) so that a totalizing flow may be recorded.

In light of this situation, I am delaying my license recommendation on these files until the measuring device requirement is fulfilled to the satisfaction of this department. At that time I will ascertain that no expansions have been made to the current system, and request that the system be operated at full capacity so that a reading may be made.

Equipmen[illegible]play (screen 1 of 3) 08/09/[illegible]

1 ENTRY #(R): 3710

2 MANUFACTURER: PACO PUMPS
3 MODEL: 1150155158A15 4 SN: 87A00314A
5 CSN: 9999-999999 6 LIFE EXPECTANCY: ...
7 MFGR EQPT NAME: CIRCULATING PUMP
8 CMR: BSE-B 9 CATEGORY: PUMP-GEO-INJECTION
10 P.O. NO.: ..... 11 ACQ. METHOD: PURCHASED
12 VENDOR: PACO
13 LEASE COST: ..... 14 ASSET VALUE: .....
15 ACQ. DATE: APR 1988 16 WARRANTY EXP. DATE: APR 1989
17 REPLACEMENT DATE: ..... 18 SOURCE: .....
19 TYPE: BUILDING SERVICE EQPT 20 REPLACING: .....
FUNCTIONS

^ -- Quit
N -- New record D -- Down a page

FUNCTION: D//

ENTRY NUMBER:3710

COMMENTS:
MOTOR/PUMP INFO MANU: LINCOLN SER # 3215598 HP 75 230/460 V 192/96 AMP 1775 RPM 60 CY FRAME 365T 1100 GPM

Enter RETURN to continue or '^' to exit:

Geo
Injection Pump

1 of 2

B-46

Equipment D..play (screen 1 of 3) 08/09/0..

1 ENTRY #(R): 5732

2 MANUFACTURER: PEABODY FLOWAY
3 MODEL: BKMH
4 SN:
5 CSN: 9999-999999
6 LIFE EXPECTANCY: 15
7 MFGR EQPT NAME: BOOSTER PUMP
8 CMR: BSE-B
9 CATEGORY: PUMP-GEOTHERMAL
10 P.O. NO.: .....
11 ACQ. METHOD: PURCHASED
12 VENDOR: FLOWAY PUMPS
13 LEASE COST: .....
14 ASSET VALUE: .....
15 ACQ. DATE: 1987
16 WARRANTY EXP. DATE: 1989
17 REPLACEMENT DATE: 2002
18 SOURCE: .....
19 TYPE: BUILDING SERVICE EQPT
20 REPLACING: .....
FUNCTIONS

^ -- Quit
N -- New record
D -- Down a page

FUNCTION: D//

Geothermal Pump

ENTRY NUMBER:5732

COMMENTS:
HP 50/22.2, SIZE 10BKMH/H, 4 STAGES, GPM @ 1100/360 @ 1770/1170. TDH 132/80 BACK-UP PUMP FOR GEOTHERMAL MOTOR U.S. ELECTRICAL MOTOR, FRAME 365TPWPI, 480, 3 PHASE

LOCATION IS BACK OF GARAGE #71

Enter RETURN to continue or '^' to exit:

Equipment [illegible]play (screen 1 of 3) " 08/09/[illegible]

1 ENTRY #(R): 3706

2 MANUFACTURER: PACO PUMPS
3 MODEL: 11301257A6C01 4 SN: 87A00551C
5 CSN: 9999-999999 6 LIFE EXPECTANCY: 20
7 MFGR EQPT NAME: CIRCULATING PUMP
8 CMR: BSE-B 9 CATEGORY: PUMP-GEO-CLOSED LOOP
10 P.O. NO.: ..... 11 ACQ. METHOD: PURCHASED
12 VENDOR: PACO
13 LEASE COST: ..... 14 ASSET VALUE: .....
15 ACQ. DATE: NOV 1988 16 WARRANTY EXP. DATE: APR 1989
17 REPLACEMENT DATE: NOV 2008 18 SOURCE: .....
19 TYPE: BUILDING SERVICE EQPT 20 REPLACING: .....
FUNCTIONS

^ -- Quit
N -- New record D -- Down a page

ENTRY NUMBER:3706

COMMENTS:
MOTOR/PUMP INFO MANU: LINCOLN SER #: 3224805 HP 25 230/460 V 64/32 AMP 1750 RPM 60 CY FRAME 284T 500 GPM

Enter RETURN to continue or '^' to exit:

Geo Heat Loop

1 of 3

B-46

Water Year*	City of Boise	Boise Warm Springs Water	State of Idaho**	Veterans Admistration	Total for 4 Producers
1977					
1978		256.00			256.00
1979		312.20			312.20
1980		308.10			308.10
1981		239.40			239.40
1982		276.00			276.00
1983		283.50			283.50
1984	166.71	300.10	162.90		629.71
1985	121.40	281.10	175.40		577.90
1986	176.83	253.20	192.00		622.03
1987	188.90	183.30	169.10		541.30
1988	123.80	199.40	138.80		462.00
1989	158.00	278.00	120.00		556.00
1990	122.30	244.60	68.30	118.21	553.41
1991	121.30	245.70	177.60	115.40	660.00
1992	123.30	243.30	139.00	116.70	622.30
1993	156.00	239.33	177.60	137.00	709.93
1994	122.50	239.33	179.60	137.40	678.83
1995	129.90	221.20	150.84	151.40	653.34
1996	132.10	226.64	119.06	186.22	664.02
1997	130.67	212.76	112.20	203.61	659.24
1998	131.37	201.63	137.45	195.97	666.42
1999	164.47	204.00	125.55	172.83	666.85
2000	177.72	210.49	117.86	186.95	693.02

*A Water Year goes from October 1 through September 30 of the following year.
**The value for the State of Idaho for 1998 is a estimate (average of 1994-1997 and 1999)

Column1		*Column1*		*Column1*		*Column1*	
Mean	138.933	Mean	224.438	Mean	143.676	Mean	160.348
Standard Error	6.260076508	Standard Error	5.307817672	Standard Error	8.363853	Standard E	10.40867
Median	131.02	Median	223.92	Median	138.225	Median	162.115
Mode	#N/A	Mode	239.33	Mode	177.6	Mode	#N/A
Standard Deviation	19.79610009	Standard Deviatior	16.78479325	Standard Deviation	26.44883	Standard D	32.9151
Sample Variance	391.8855789	Sample Variance	281.7292844	Sample Variance	699.5404	Sample Va	1083.404
Kurtosis	-0.048032933	Kurtosis	-1.779273993	Kurtosis	-1.56524	Kurtosis	-1.66572
Skewness	1.149090268	Skewness	-0.052973261	Skewness	0.414414	Skewness	-0.13723
Range	56.42	Range	44.07	Range	67.4	Range	88.21
Minimum	121.3	Minimum	201.63	Minimum	112.2	Minimum	115.4
Maximum	177.72	Maximum	245.7	Maximum	179.6	Maximum	203.61
Sum	1389.33	Sum	2244.38	Sum	1436.76	Sum	1603.48
Count	10	Count	10	Count	10	Count	10

WATER USE FOR GEOTHERMAL WELL FROM KEN NEELY.

MAXIMUM WATER USE PER YEAR EQUALS 203.61 million GALLONS. OR 624.9 AF USED IN 1997.

$\frac{203,610,000}{325,850} = 624.9$ AF USED IN 1997

GEOTHERMAL WELL DATA LOG

VA Geothermal Production Well
Remarks:_____

Date m/d/y	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp. (F°) Bldg.107	Water Surface Elev. Above Bowls Bldg.107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	Injection Line Pressure
1									
2	2815	404353	595	160			H	ON	165
3									
4									
5									
6									
7	08:45	532202	580	160			H	ON P4	165
8	08:45	531051	580	160			H	ON P4	160
9									
10									
11									
12									
13									
14									
15	1630	601240	584	160			H	ON P5	160
16	1115	606466	240	160			L	SPF	50
17									
18									
19									
20	1100	627444	260	160			L	SPF	40
21	0730	634666	610	160			H	ON P5	
22	0915	643265	250	120			L	OFF	
23	0800	644801	220	160			H	HEMP 60	
24									
25									
26									
27	1030	675720	240	165			L	OFF	40
28	1230	691214	410	165			H	OFF	
29	0915	698474	610	160			H	ON P4	170
30	1130	709327	410	160			H	OFF	10
31	1100	716358	220	160			L	OFF	50

640 gpm max. Diversion Rate

average winter Diversion Rate = 580 gpm to 610 gpm.

Average summer Diversion Rate = 180 gpm to 210 gpm.

252,165
78

19,668,870

Idaho
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

1.43 CFS

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION

Peak water Diversion 640 gpm NOV 3, 1997. DA

GEOTHERMAL WELL DATA LOG

VA Geothermal Production Well
Remarks: _____

Date m/d/y Feb 2000	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp. (F°) Bldg.107	Water Surface Elev. Above Bowls Bldg.107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	Injection Line Pressure
1									
2									
3									
4									
5									
6									
7									
8	0800	2M653	600	164			H	1 PS	160
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22	0800	394877	560	160			H	1 PS	160
23									
24	0700	403775	548	160			H	1 PS	160
25									
26									
27									
28									
29		454193	est						
30									
31									

3-1 0915 [redacted] 560 164 H 1 PS 160
H74953

3-2 on March page

Idaho
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

Jan+Feb production -
615,665 x 78 =
48,021,837

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION

GEOTHERMAL WELL DATA LOG

VA Geothermal Production Well
Remarks:_____

Date m/d/y DEC 1999	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp. (F°) Bldg.107	Water Surface Elev. Above Bowls Bldg.107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	Injection Line Pressure
1	1930	5[illegible]876	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
2									
3									
4									
5									
6				[illegible]		[illegible]	[illegible]		
7	1300	5923740	610	[illegible]			[illegible]	[illegible]	
8									
9									
10									
11									
12									
13									
14	1100	6[illegible]9[illegible]9[illegible]	620	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
15	0830	6739[illegible]	615	[illegible]			[illegible]	[illegible]	[illegible]
16									
17									
18									
19									
20									
21									
22	1030	6[illegible]7266	600	[illegible]			[illegible]	[illegible]	[illegible]
23									
24									
25									
26									
27									
28									
29	1 PM	6[illegible]7[illegible]	610	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
30	9 AM	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]
31		938,527							

1-11 955 951

1-18 (1)00756

317,597
78

24,772,566

Idaho
Department of Water Resources

1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION

TOTAL P.01

GEOTHERMAL WELL DATA LOG

VA Geothermal Production Well
Remarks: _____

Date m/d/y 10/ 1999	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp. (F°) Bldg.107	Water Surface Elev. Above Bowls Bldg.107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	Injection Line Pressure
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16	0930	299724	604	161		58	OFF	ON PS	160
17	1030	339272	615	161			HI	ON PS	165
18									
19									
20									
21									
22									
23									
24									
25									
26	1300	487994	390	161			HI	OFF	
27									
28									
29	0900	539994	430	161			HI	ON PS	160
30	0830	580532	410	161			HI	OFF	80
31									
12-1	1330	579842	600	161		58	HI	ON PS	160

248,070
78
19,349,460

Idaho
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
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GROUND-WATER MONITORING SECTION

GEOTHERMAL
WELL DATA LOG

V. A. Geothermal Production Well
Remarks_____

Date m/d/y FEB 1998	Time 24 HR.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10	9A	324411	580	160			H	ON	
11									
12	6:15P	329918	580	160			H	ON	
13	9A	331020	580	160			H	ON	
14							H	ON	
15									
16									
17	8:30A	373304	575	160			H	ON	
18									
19									
20									
21									
22									
23	9:45A	434429	576	160			H	ON	
24	8:30A	444694	580	160			H	ON	
25							H	ON	
26									
27									
28		487348							
29									
30									
31									
3-3	8:46A	519337	580	160			H	ON	

283141
N78
22,084,998

Idaho
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
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GROUND-WATER MONITORING SECTION
(208) 327-7855

FAX 327-7866

GEOTHERMAL
WELL DATA LOG

V. A. Geothermal Production Well
Remarks _____

Date m/d/y JAN 1998	Time 24 HR.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	
		Disch 903467							
1									
2									
3									
4									
5									
6	7A	7+7668	545	160			HI	ON	
7	11:30	9765720	540	160			HI	ON	
8									
9	9:45A	9960930	550	160			HI	ON	
10									
11									
12	8:15A	10019934	540	160			HI	ON	
13									
14									
15									
16									
17									
18									
19									
20	11:15A	10076466	545	160			HIGH	ON	
21									
22									
23									
24									
25									
26	8:15A	10159346	540	160			HI	OFF	
27	8:30A	10165325	545	160			LOW	ON	
28									
29									
30									
31		204207 (est)							

2-10 94 30/4/1

300.540
x 78
23,442,120

FAX 327-7866

Idaho WRB
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
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GROUND-WATER MONITORING SECTION
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GEOTHERMAL
WELL DATA LOG

V. A. Geothermal Production Well
Remarks _____

Date m/d/y Dec 1997 11-20	Time 24 HR.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	
		No 30 591,187							
		535 484							
1		53							
2									
3									
4									
5									
6									
7									
8									
9	8:30A	6 86022	590	160			HIGH	ON	
10									
11	8:30A	745759	590	160			HIGH	ON	
12	BA	718263	590	160			HIGH	ON	
13									
14									
15									
16		CHANGED	LAMPORT			REC	TO BX	0933	
17		HEAT EXCH	PUMP	AND		FLOW	METER		
18	8:00AM	782133	590	160			HIGH	ON	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31		903 667							
	1-6-98 9A	9 59668	540	165			HIGH	ON	

Idaho Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
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9333

FAX 327-7866

312,485
58
24,373,830

GEOTHERMAL
WELL DATA LOG

V. A. Geothermal Production Well
Remarks

Date m/d/y NOV 1997	Time 24 HR.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	
		306,274 (OCT 31 est)							
1									
2									
3	1330	329544	645	160			HIGH	ON	
4	1530	338387	140	160			LOW	OFF	
5									
6	1100	352393	605	160			HIGH	ON	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18	1100	469601	590	165			HIGH	ON	
19									
20									
21									
22									
23									
24									
25	08:00	537434	605	165			HIGH	ON	
26									
27									
28									
29									
30		591,182 est							
31									
12-1	1330	602332	590	160			HIGH	ON	

284,908
79
22,222,824

1997 to date
178,623,432

Idaho WR
Department of Water Resources
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TOTAL P.01

WELL DATA LOG

V. A. Geothermal Production Well

Remarks_____

Date m/d/y AUG. 1992	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface* Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON?OFF)	
1		55247	ok						
2									
3		063099	200	164			L	Off	
4	10 AM	066775	210	164	162	73	L	Off	1312
5	10AM	071136	210	164			L	Off	
6	10AM	075388	200	164			L	Off	
7									
8									
9									
10	10AM	092290	200	164	162	73	L	Off	1318
11									
12	10AM	099824	200	164	161	73	L	Off	1320
13	10AM	104635	200	164	161	74	L	Off	1321
14	10AM	109048	200	164			L	Off	
15									
16									
17	10AM	120530	200	164	161	75	L	Off	1325
18	10AM	124036	200	164	161	73	L	Off	26
19	10AM	128527	200	164	161	73	L	Off	27
20	10AM	132568	200	164			L	Off	
21	10AM	136918	200	164			L	Off	
22									
23									
24	10AM	148542	210	164	162	73	L	OFF	1332
25	10AM	152898	210	164	162	72	L	Off	33
26	10A	157279	210	164	161	73	L	Off	34
27	10AM	161673	210	164			L	Off	
28	10AM	166012	200	164	161	73	L	Off	36
29									
30									
31	10AM	179 029	ok		161	73	L	Off	39

* Bowles are set at 110 ft. below land surface.

123,282
x78
9,615,996

Idaho IDWR
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION

WELL DATA LOG

7. A. Geothermal Production Well

Remarks ON 30 JULY 1992 @ 08:15 TO 17:30 SHUT DOWN GEO-THERMAL PRODUCTION WELL TO PERFORM YEARLY PM. (CHANGE OVER OF THE PUMP AND MOTOR.)

Date m/d/y JULY 1992	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON?OFF)	
1	0900	922412	220	162	162	70	LOW	OFF	1278
2	0900	927823	210	162			LOW	OFF	
3				HOLIDAY					
4				SATURDAY					
5				SUNDAY					
6	0900	944771	210	162	162	69	LOW	OFF	1283
7	0900	948984	220	162			LOW	OFF	
8	0900	953632	210	162	162	69	LOW	OFF	1285
9	0900	958536	210	162	162	70	LOW	OFF	86
10	0900	961898	210	163	161	70	LOW	OFF	87
11				SATURDAY					
12				SUNDAY					
13	0900	975320	210	162			LOW	OFF	
14	0900	979380	210	162			LOW	OFF	
15	0900	983476	220	163			LOW	OFF	
16					161	70	LOW	OFF	1293
17	0900	992113	210	162			LOW	OFF	
18				SATURDAY					
19				SUNDAY	(GEO WATER METER TURNED OVER)				
20									
21	0900	008964	210	162			LOW	OFF	
22	0900	014470	210	163			LOW	OFF	
23					162	71	LOW	OFF	1300
24									
25				SATURDAY					
26				SUNDAY					
27	0900	034747	210	162	162	73	LOW	OFF	1304
28	0900	038925	210	162			LOW	OFF	
29									
30	(Production well shut down, 08:15--17:30 yearly PM pump/motor changeove								
31		049,370			162	72	LOW	OFF	1308

126,958
× 78
9,907,724

Idaho DWR
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION
(208) 327-7855

RECEIVED
AUG 0 5 1992
Department of Water Resources

WELL DATA LOG

T. A. Geothermal Production Well

Remarks _____

Date m/d/y JUNE 1992	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F^o) Bldg. 46	Temp (F^o) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON?OFF)	
1	0900	795923	220	164	162	68	LOW	OFF	1248
2	0900	800228	220	164			LOW	OFF	
3									
4	0900	808948	220	163	162	67	LOW	OFF	1251
5	0900	813268	220	164	162	68	LOW	OFF	1252
6				SATURDAY					
7				SUNDAY					
8	0900	825899	230	164	162	68	LOW	OFF	1255
9	0900	829812	210	164	162	69	LOW	OFF	1256
10	0900	833715	210	164	162	68	LOW	OFF	57
11	0900	837618	210	164	162	69	LOW	OFF	58
12					162	70	LOW	OFF	59
13				SATURDAY					
14				SUNDAY					
15	0900	856239	220	164	162	68	LOW	OFF	1262
16	0900	859520	220	162			LOW	OFF	
17	0900	864432	220	164	162	68	LOW	OFF	1264
18					162	68	LOW	OFF	1265
19					162	69	LOW	OFF	1266
20				SATURDAY					
21				SUNDAY					
22	0900	886272	220	164	162	68	LOW	OFF	1269
23	0900	889683	220	164	162	68	LOW	OFF	1270
24	0900	893686	220	164			LOW	OFF	
25									
26	0900	902368	220	164	162	69	LOW	OFF	1273
27				SATURDAY					
28				SUNDAY					
29	0900	913884	220	164	162	70	LOW	OFF	1276
30	0900	918024	220	164			LOW	OFF	
31									

122,101
+ 78
9,523,879

Idaho DWR
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION
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RECEIVED
AUG 0 5 1992
Department of Water Resources

WELL DATA LOG

V. A. Geothermal Production Well

Remarks_____

Date m/d/y MAY 1992	Time 24 hr.	Totalizer Reading	Disch. (gpm)	Temp. (F^o) Bldg. 46	Temp (F^o) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON?OFF)	
1		661,636							
2				MAX SATURDAY					
3				SUNDAY					
4	0900	674936	230	164	162	66	Low	Off	1220
5	0900	679293	220	163			Low	Off	
6	0900	683819	240	164	162	67	Low	Off	1222
7	0900	688236	230	163			Low	Off	
8	0900	693516	210	163			Low	Off	
9				SATURDAY					
10				SUNDAY					
11	0900	706550	220	163	162	66	Low	Off	1227
12	0900	710814	230	162			Low	Off	
13	0900	716028	230	162			Low	Off	
14	0900	721243	220	162	161	67	Low	Off	1230
15	0900	724300	220	163	162	66	Low	Off	1231
16				SATURDAY					
17				SUNDAY					
18	0900	737185	230	162			Low	Off	
19	0900	741320	230	162	162	67	Low	Off	1235
20									
21	0900	749967	230	162	162	66	Low	Off	1237
22	0900	755053	230	162			Low	Off	
23				SATURDAY					
24				SUNDAY					
25				HOLIDAY					
26	0900	772005	230	162	162	67	Low	Off	1242
27	0900	776479	230	164			Low	Off	
28	0900	780953	230	164			Low	Off	
29	0900	785427	230	164			Low	Off	
30		789,901 est		SATURDAY					
31				SUNDAY					

129,265
178
10,004,670

Idaho DWR
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION
(208) 327-7855

WELL DATA LOG

Page___of_

VA Geothermal Production Well

Remarks_____

Date mm/dd/yr APRIL 1992	Time (24-hour)	Discharge (gpm) Totalizer Reading	Totalizer reading Disch. (GPM)	Temp. (°F) Boiler room	Temp. (°F) Bldg 107	Water surface elevation above bowls* Bldg 107	Production Pump operation (high or low)	Injection pump	
1	0900	557102	180	164	162	62	Low	Off	1187
2	0900	559968	180	163	161	63	Low	Off	1188
3	0900	563745	180	164	161	63	Low	Off	1189
6	0900	574178	180	164	162	62	Low	Off	1192
7	0900	577809	180	164			Low	Off	
8	0900	581450	180	164			Low	Off	
9	0900	584831	180	164	162	62	Low	Off	1195
10	0900	588729	180	164	162	64	Low	Off	1196
13	0900	599109	180	164			Low	Off	
14	0900	602753	180	164			Low	Off	
15					162	64			
17	0900	614605	180	164			Low	Off	
20	0900	625282	180	164			Low	Off	
21	0900	627659	180	164	162	64	Low	Off	1207
22	0900	632329	180	164	162	67	Low	Off	1208
23	0900	634625	180	164			Low	Off	
24	0900	639414	180	164	162	64	Low	Off	1210
27	0900	649366	180	164	162	64	LOw	Off	1213
28	0900	652611	180	164			Low	Off	
29					162	64			
30		659101 est							1216

* Bowls are set 110 ft. below land surface

101,999
x 78
7,955,922

Idaho Water Resources
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION
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WELL DATA LOG

Page___of_

VA Geothermal Production Well

Remarks

Saturday 3/21/92 Production pump secured @ 10:30 A/M and turned back on @ 11:45 A/M due to power outage while changing a power transformer.

Date mm/dd/yr MARCH 1992	Time (24-hour)	Discharge (gpm) 445967 est	Totalizer reading	Temp. (°F) Boiler room	Temp. (°F) Bldg 107	Water surface elevation above bowls* Bldg 107	Production Pump operation (high or low)	Injection pump
2	09:00	448904	180	163			LOW	~~OFF~~ 1158
3	09:00	451841	180	164	162	62	LOW	OFF
5	09:00	459033	180	164	162	62	LOW	OFF
6	09:00	462469	180	163	162	60	LOW	OFF
9	09:00	473423	180	162			LOW	OFF
10	09:00	476808	180	163	162	60	LOW	OFF
11	09:00	480785	180	162	162	62	LOW	OFF
12	09:00	483772	180				LOW	OFF
16	09:00	498200	180	163	162	61	LOW	)FF
17	09:00	501675	180	164			LOW	OFF
18	09:00	505526	180	164			LOW	OFF
19	09:00	508902	180	164			LOW	OFF
24	09:00	527082	180	163	162	62	LOW	OFF
25	09:00	531979	180	164			LOW	OFF
26	09:00	534251	180	164	162	61	LOW	OFF
27	09:00	538961	180	164			LOW	OFF
30	09:00	549359	180	164	162	62	LOW	OFF
31	09:00	552758	180	164			LOW	OFF 1186
		106,791						
		8,329,678						

* Bowls are set 110 ft. below land surface

Idaho
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
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GROUND-WATER MONITORING SECTION
(208) 327-7855

238(4)-1
5/93

IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

1. **DRILLING PERMIT NO:** _____ **OTHER APPLICABLE NO:** 63-9890

2. **OWNER:** _____ Phone: _____
Address: _____

3. **WELL LOCATION:** Twp _____, Rge. _____, Sec. _____, _____ 1/4 _____ 1/4
County _____ (Provide sketch map and photo on reverse.)

4. **DRILLER:** _____ Lic. No. _____
When Drilled? 1983

5. **WELL CONSTRUCTION:**
Casing Diameter 16 inches Water tight cap? [Y] Yes [ ] No Access Port: [Y] Yes [ ] No
Casing ≥ 12 inches above ground? [Y] Yes [ ] No - Describe _____
Depth of Casing _____ ft. Method Drilled _____
Condition of Well Casing: [ ] Good [Y] Fair [ ] Poor Describe Hot H2O Corrosion
Control Valve? [ ] Yes [ ] No Pressure Gauge: [ ] Yes [ ] No
Condition of Piping and Valving Hot H2O Corrosion
Auger to a depth of _____ ft. Evidence of Annular Seal [ ] Yes [ ] No
Are there obvious constuction problems that may be a source for contamination or waste of water?
[ ] Yes [N] No (Describe in Remarks and Attach Photo - On Reverse)

6. **HYDROLOGIC INFORMATION:**
Depth to Static Water 6 ft. Water Temperature 162 °F
Flowing Artesian [ ] Yes [N] No Pressure: 23 (psi)
Water Sample Taken? [ ] Yes [ ] No If yes, describe purpose _____
Water Quality Measurements/Observations (Describe) _____

7. **WELL USE:**

[ ] Domestic	[ ] Irrigation	[ ] Stock
[ ] Test	[ ] Municipal	[ ] Industrial
[ ] Abandoned	[ ] Waste Disposal/Injection	[ ] Not Used

[Y] Other: HEAT

8. **POSSIBLE CONTAMINAT[illegible]OURCES:**

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:** _____

Daniel A. Nelson FOR Cindy Hodges — Signature of Dept. Representative & Title

11-18-1990 — Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

238(4)-1
5/93

IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

1. **DRILLING PERMIT NO:** 63-9890 **OTHER APPLICABLE NO:** 63-W-21

2. **OWNER:** _____ Phone: _____
Address: _____

3. **WELL LOCATION:** Twp _____, Rge. _____, Sec. _____, _____1/4 _____1/4
County _____ (Provide sketch map and photo on reverse.)

4. **DRILLER:** _____ Lic. No. _____
When Drilled? 1987

5. **WELL CONSTRUCTION:**
Casing Diameter 16 inches Water tight cap? [X] Yes [ ] No Access Port: [ ] Yes [ ] No
Casing ≥ 12 inches above ground? [ ] Yes [X] No - Describe In Concrete pit
Depth of Casing _____ ft. Method Drilled _____
Condition of Well Casing: [ ] Good [ ] Fair [ ] Poor Describe _____
Control Valve? [X] Yes [ ] No Pressure Gauge: [X] Yes [ ] No
Condition of Piping and Valving _____
Auger to a depth of _____ ft. Evidence of Annular Seal [ ] Yes [ ] No
Are there obvious constuction 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 ~~Hot~~ 132 °F
Flowing Artesian [ ] Yes [ ] No Pressure: 40 (psi)
Water Sample Taken? [ ] Yes [ ] No If yes, describe purpose _____
Water Quality Measurements/Observations (Describe) _____

7. **WELL USE:**

[ ] Domestic	[ ] Irrigation	[ ] Stock
[ ] Test	[ ] Municipal	[ ] Industrial
[ ] Abandoned	[X] Waste Disposal/Injection	[ ] Not Used

[ ] Other: _____

8. **POSSIBLE CONTAMINATI[illegible]OURCES:**

Is there evidence of Chemigation? [ ] Yes [X] No

If yes, is there a check-valve present? [X] Yes [ ] No

Is there a possible source of contamination nearby? [ ] Yes [X] No

If yes, what Type? _____

How far away from the well is this source? _____

9. **REMARKS:** _____

Daniel A. Nelson FOR Cindy Hodges — 11-18-1990.

Signature of Dept. Representative & Title — Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

Form 238-7
9/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

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.

1. WELL OWNER

Name U.A. MEDICAL CENTER
Address 5300 WEST FORT ST. BOISE ID. 83702
Owner's Permit No. 63-4-21

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☒ Waste Disposal or Injection
☐ Other (specify type)

4. METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
.250 inches	16 OD inches	−7 feet	140 feet
.156.5 inches	10 3/4 OD inches	−5 feet	1270 feet
.317 inches	7 OD inches	1180 feet	2300 feet
inches	inches	feet	feet

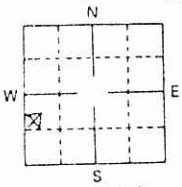
Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☒ Factory ☐ Knife ☐ Torch
Size of perforation 1/4 inches by 3 inches

Number	From	To
16,960 perforations	1240 feet	2300 feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name
Type Model No.
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel
Placed from feet to feet
Surface seal depth 140 Material used in seal: ☒ Cement grout ☐ Bentonite ☐ Puddling clay ☐
Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☒ Threaded ☒ Welded ☐ Solvent Weld
☒ Cemented between strata
Describe access port NONE FLOWING WELL

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name
Lot No. Block No.
County ADA
SW ¼ NW ¼ Sec. 2 T. 3 ☐N ☒S, R. 2 ☐E ☒W.

7. WATER LEVEL

Static water level +12 feet ~~below~~ land surface.
Flowing? ☒ Yes ☐ No G.P.M. flow 50
Artesian closed-in pressure 5" p.s.i.
Controlled by: ☒ Valve ☐ Cap ☐ Plug
Temperature 140 °F. Quality GOOD
Describe artesian or temperature zones below.

8. WELL TEST DATA NONE Pg 1 of 3

☐ Pump ☐ Bailer ☐ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
22	0	57	GRANITE SAND + GRAVEL		X
20	57	110	GRANITE SANDS	X	
"	110	140	SAND + CLAY		X
12¼	140	561	SAND + CLAY LENSES	X	
"	561	712	BASALT BLK HARD		X
"	712	884	SAND + CLAY INTERBED	X	
"	884	1015	BASALT BLK HARD		X
"	1015	1091	CLAY GRAY		X
"	1091	1240	SANDY CLAY GRAY		X
9⅞	1240	1287	SANDY CLAY GRAY		X
"	1287	1307	QUARTZ SAND CLEAN	X	
"	1307	1407	CLAY GRAY		X
"	1407	1530	BASALT BLK		X
"	1530	1560	ANDESITE GRAY		X
"	1560	1570	CLAY GRAY		X
"	1570	1700	BASALT BLK		X
"	1700	1710	CLAY GRAY		X
"	1710	1791	BASALT GRAY		X
"	1791	1912	CLAY GRAY		X
"	1912	1990	SAND CLEAN	X	
"	1990	2300	RHYOLITE LITE GRAY	X	
			SEE ATTACHMENTS		

10.

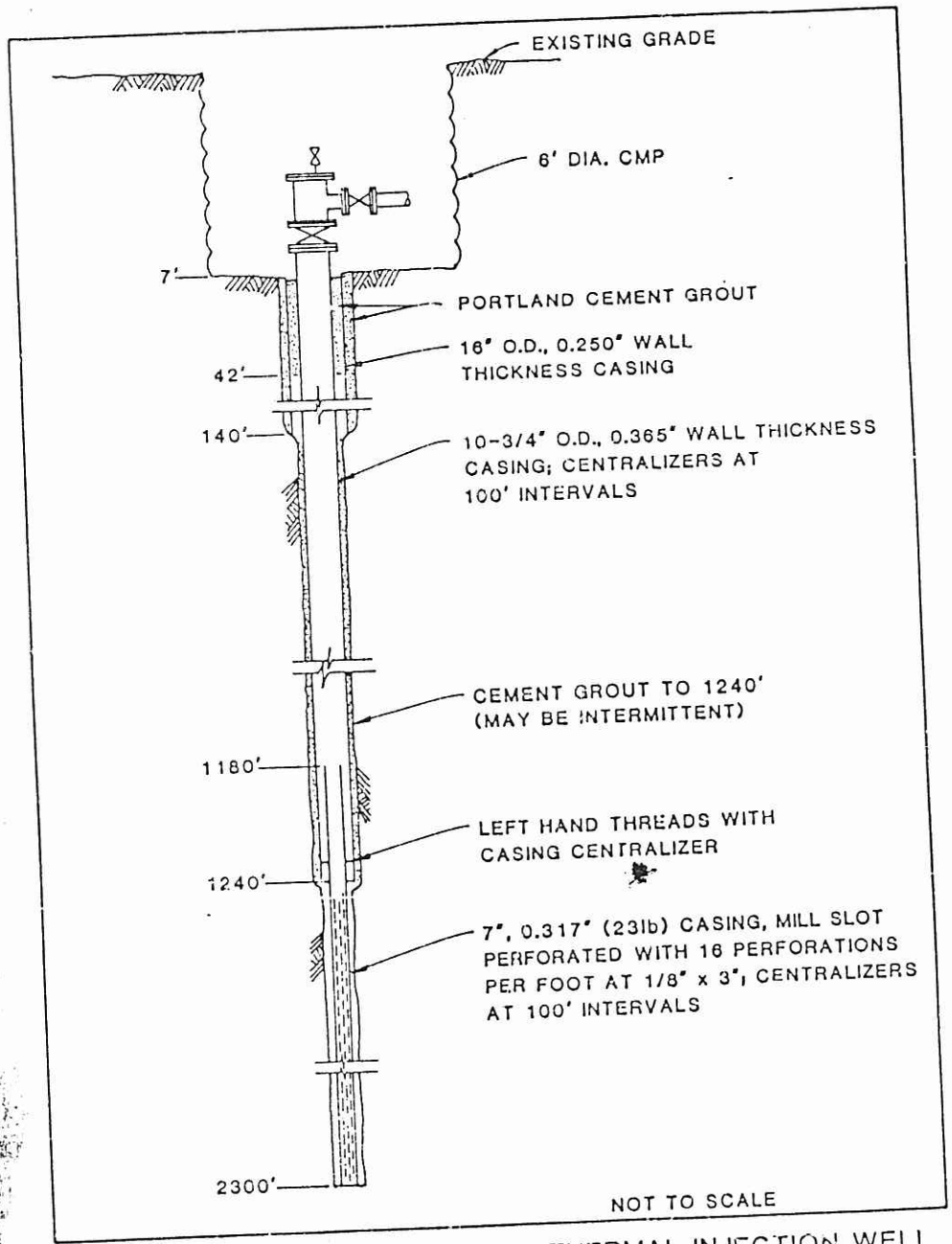
Work started OCT 23 - 86 finished JAN 8 - 87

11. DRILLERS CERTIFICATION

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

Firm Name HELMAN DRILLING Co. Firm No. 108
Address E3410 9TH AVE. SPOKANE WA. Date MARCH 16-87
Signed by (Firm Official) Arnold E. Helman PRES.
and
(Operator) Arnold E. Helman

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT



VETERANS ADMINISTRATION GEOTHERMAL INJECTION WELL
BOISE, IDAHO

Sec. 2 T 3N R 2E

Pg 2 of 3

APPENDIX A

WELL SUMMARY DATA SHEET

Owner:	Veterans Administration
Well:	V.A. Medical Center Injection Well
Location:	SW¼, NW¼, SW¼, Sec. 2, T3N, R2E, B.M.
Elevation:	2720 Ground Surface (Topo. Map) 2732 Kelly Bushing
Contractor:	Holman Drilling Tool Pusher: Arnold Holman
Geologist:	Terry Scanlan
Casing:	16-inch O.D.; 0.250-inch wall thickness; set at 151.0' K.B; cemented to surface with 175 sacks of Portland Type I & II cement. 10-3/4-inch O.D.; 40.5 lb/ft set at 1252.0 K.B.; cemented from bottom with 361 sacks of Halliburton light cement and 145 sacks of Class H cement; squeeze cemented with 50 sacks of thixotropic cement at 995 feet; squeeze cemented with 100 sacks of thixotropic cement at 730 feet; squeeze cemented with 75 sacks of thixotropic cement at 470 feet. 7-inch O.D.; 23 lb/ft; 1120 feet set at 2300; perforated 1240 to 2300; 16 slots per foot; 1/8-inch by 3-inch slots.
Logging:	Petro-Log, Inc., Evanston, Wyoming
Drilling Commenced:	October 23, 1986
Drilling Completed:	December 23, 1986
Rig Released:	January 8, 1987

Pg 3 of 3

8/9/2001

2 PHOTO's DAN Nelson

11/18/1993

PHOTOGRAPHER AND DATE OF PHOTOS 1 PHOTO Cindy Hodges ~~1993~~

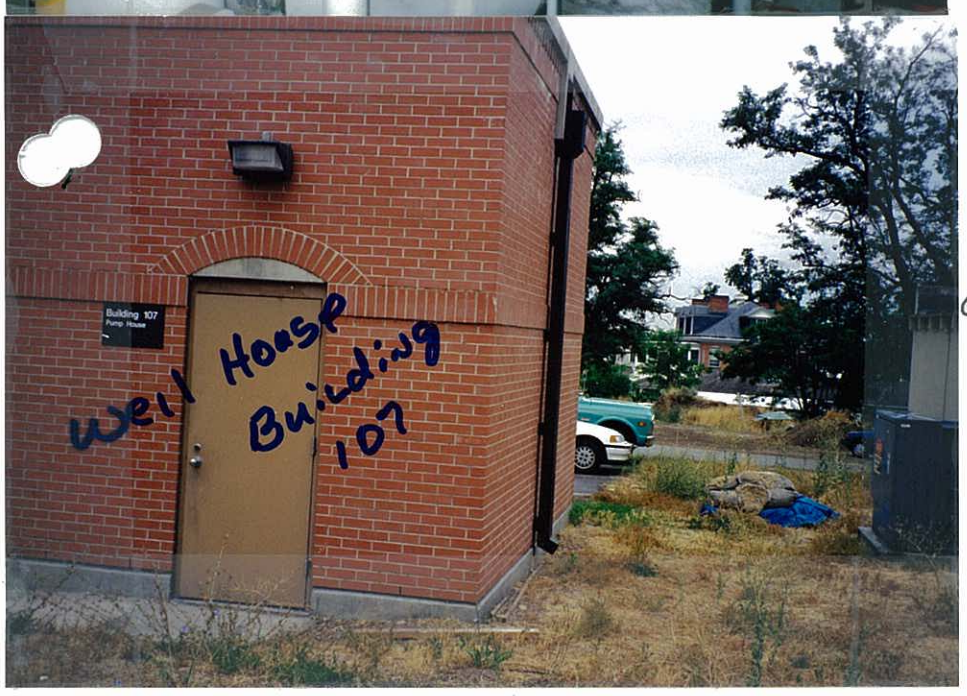
43-9890 & 63-10339



1993 PHOTO OF GEOTHERMAL Well Taken By Cindy Hodges



2001 PHOTO OF GeoThermal well Taken By Dan Nelson



← Well House Building 107 Taken By Dan Nelson.

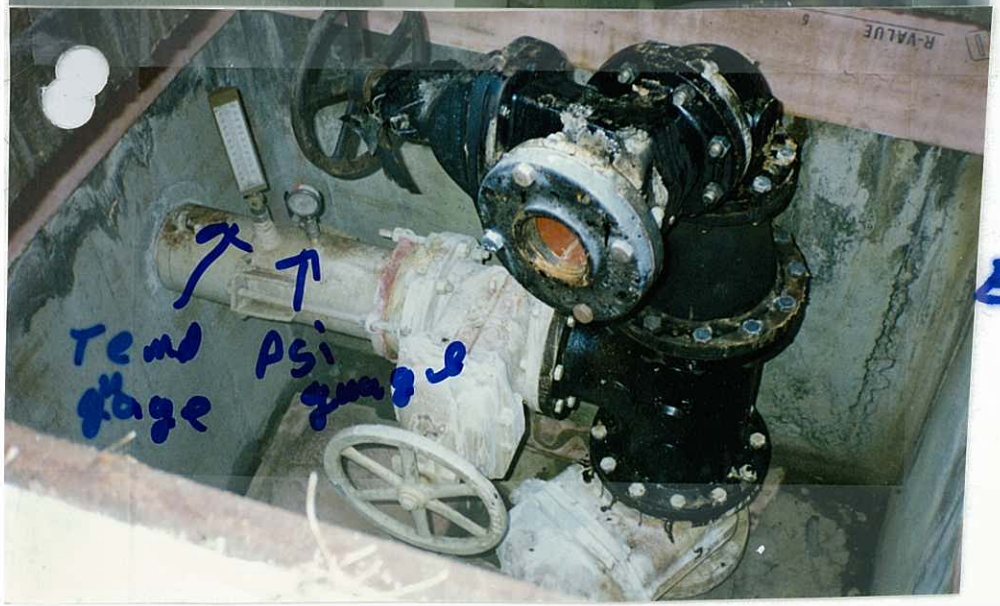
PHOTOGRAPHER AND DATE OF PHOTOS Cindy Hodges 11-18-1993

FILE NO. AND LEGAL DESCR. 63-9890 & 63-10339



Flow meter & Readout





Well ~~gages~~ Gauges

Cindy Hodges 11/18/1993

PHOTOGRAPHER AND DATE OF PHOTOS DAN Nelson 8/9/2001

FILE NO. 63-9890 & 63-10339

1993 PHOTO OF Heat Exchanger Taken By Cindy Hodges.



2001 PHOTO OF Heat Exchanger Taken By DAN Nelson

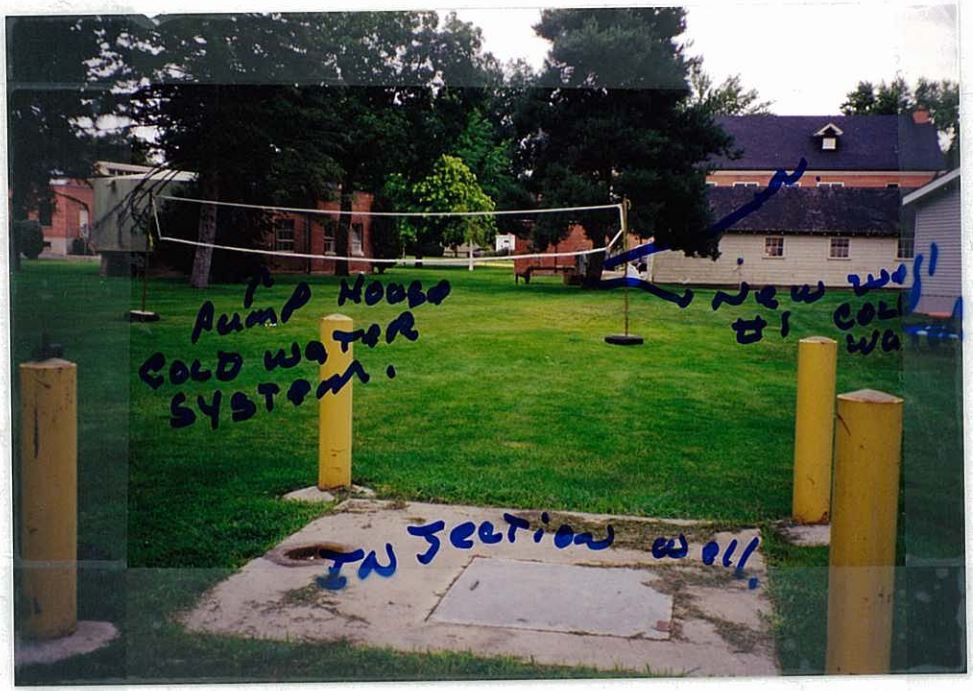


PHOTOGRAPHER AND DATE OF PHOTOS DAN Nelson 8-9-2001

FILE NO. 63-9890 & 63-10339.



These are photos of the 2 large pumps that pump geothermal water to the injection well and 3 smaller pumps that pump the solution from the Heat Exchanger to the Buildings.



This is a photo of the injection well. It is located very close to new pump #1 for the cold water system.

FIELD NOTES

PERMIT NUMBER 63-09890

PLEASE NOTE: These documents are for backup purposes only and are not apart of actual Beneficial Use Field Report.

Equipment [illegible]lay (screen 1 of 3) 08/09/0[illegible]

1 ENTRY #(R): 5732

2 MANUFACTURER: PEABODY FLOWAY
3 MODEL: BKMH
4 SN:
5 CSN: 9999-999999
6 LIFE EXPECTANCY: 15
7 MFGR EQPT NAME: BOOSTER PUMP
8 CMR: BSE-B
9 CATEGORY: PUMP-GEOTHERMAL
10 P.O. NO.: .....
11 ACQ. METHOD: PURCHASED
12 VENDOR: FLOWAY PUMPS
13 LEASE COST: .....
14 ASSET VALUE: .....
15 ACQ. DATE: 1987
16 WARRANTY EXP. DATE: 1989
17 REPLACEMENT DATE: 2002
18 SOURCE: .....
19 TYPE: BUILDING SERVICE EQPT
20 REPLACING: .....
FUNCTIONS

^ -- Quit
N -- New record
D -- Down a page

FUNCTION: D//

Geothermal Pump

ENTRY NUMBER:5732

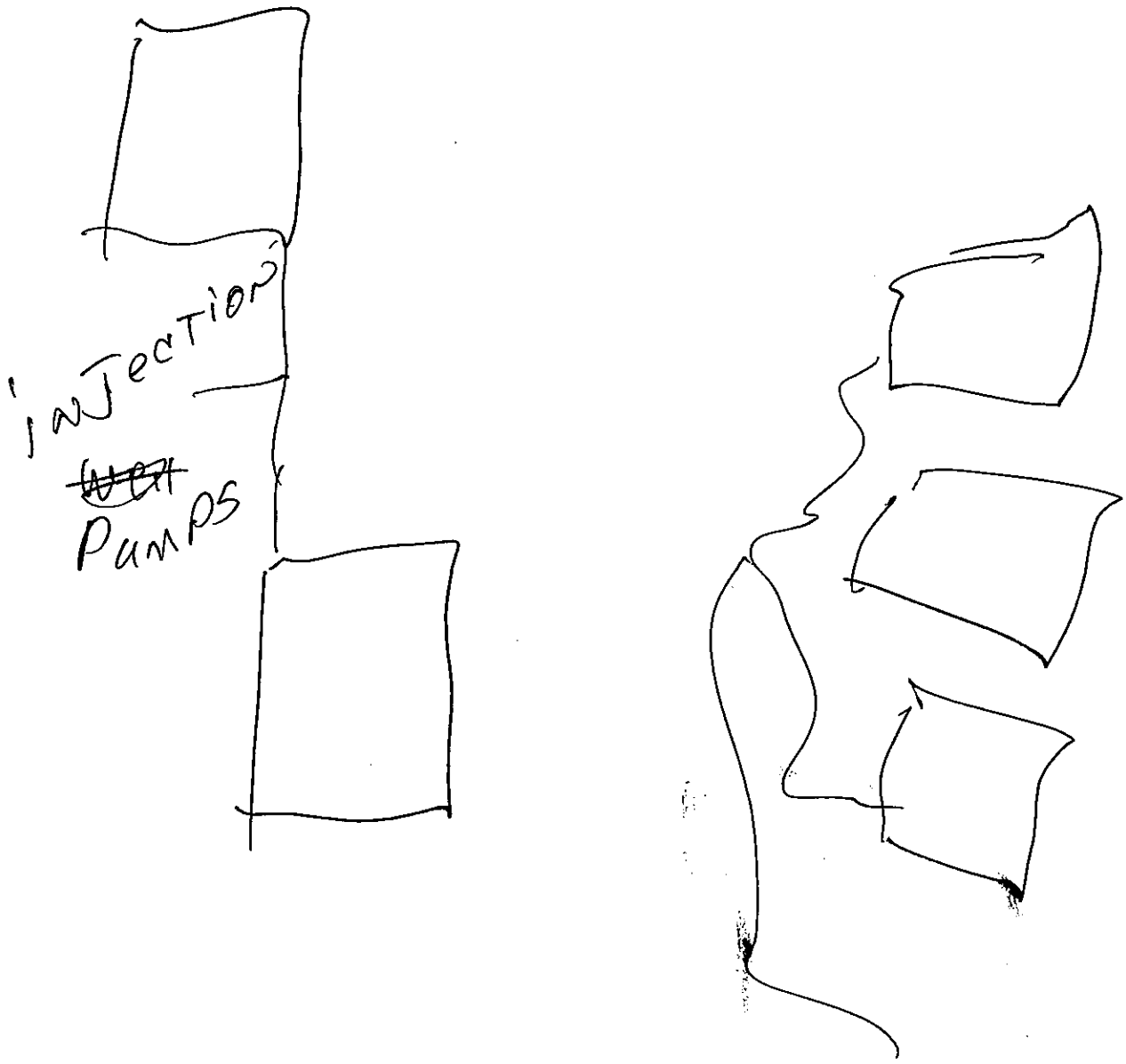
COMMENTS:
HP 50/22.2, SIZE 10BKMH/H, 4 STAGES, GPM @ 1100/360 @ 1770/1170. TDH 132/80 BACK-UP PUMP FOR GEOTHERMAL MOTOR U.S. ELECTRICAL MOTOR, FRAME 365TPWPI, 480, 3 PHASE

LOCATION IS BACK OF GARAGE #71

Enter RETURN to continue or '^' to exit:

GeoThermal pump

Geo pumps Run Through Heat Exchangers AND Then Re injected Another Fluid Sent Through Buildings


INJECTION
~~HEAT~~
PUMPS
CIRCULATE
FLUID
TO
OTHER
BUILDINGS

Equipment ( )lay (screen 1 of 3) ' 08/09/01

1 ENTRY #(R): 3706

2 MANUFACTURER: PACO PUMPS
3 MODEL: 11301257A6C01 4 SN: 87A00551C
5 CSN: 9999-999999 6 LIFE EXPECTANCY: 20
7 MFGR EQPT NAME: CIRCULATING PUMP
8 CMR: BSE-B 9 CATEGORY: PUMP-GEO-CLOSED LOOP
10 P.O. NO.: ..... 11 ACQ. METHOD: PURCHASED
12 VENDOR: PACO
13 LEASE COST: ..... 14 ASSET VALUE: .....
15 ACQ. DATE: NOV 1988 16 WARRANTY EXP. DATE: APR 1989
17 REPLACEMENT DATE: NOV 2008 18 SOURCE: .....
19 TYPE: BUILDING SERVICE EQPT 20 REPLACING: .....
FUNCTIONS

^ -- Quit
N -- New record D -- Down a page

FUNCTION: D//

GEO HEAT LOOP

1 of 3

B-46

ENTRY NUMBER:3706

COMMENTS:
MOTOR/PUMP INFO MANU: LINCOLN SER #: 3224805 HP 25 230/460 V 64/32 AMP 1750 RPM 60 CY FRAME 284T 500 GPM

Enter RETURN to continue or '^' to exit:

Equipment [illegible]lay (screen 1 of 3) 08/09/0[illegible]

1 ENTRY #(R): 3710

2 MANUFACTURER: PACO PUMPS
3 MODEL: 1150155158A15 4 SN: 87A00314A
5 CSN: 9999-999999 6 LIFE EXPECTANCY: ...
7 MFGR EQPT NAME: CIRCULATING PUMP
8 CMR: BSE-B 9 CATEGORY: PUMP-GEO-INJECTION
10 P.O. NO.: ..... 11 ACQ. METHOD: PURCHASED
12 VENDOR: PACO
13 LEASE COST: ..... 14 ASSET VALUE: .....
15 ACQ. DATE: APR 1988 16 WARRANTY EXP. DATE: APR 1989
17 REPLACEMENT DATE: ..... 18 SOURCE: .....
19 TYPE: BUILDING SERVICE EQPT 20 REPLACING: .....
FUNCTIONS

^ -- Quit
N -- New record D -- Down a page

FUNCTION: D//

GEO
INJECTION Pump

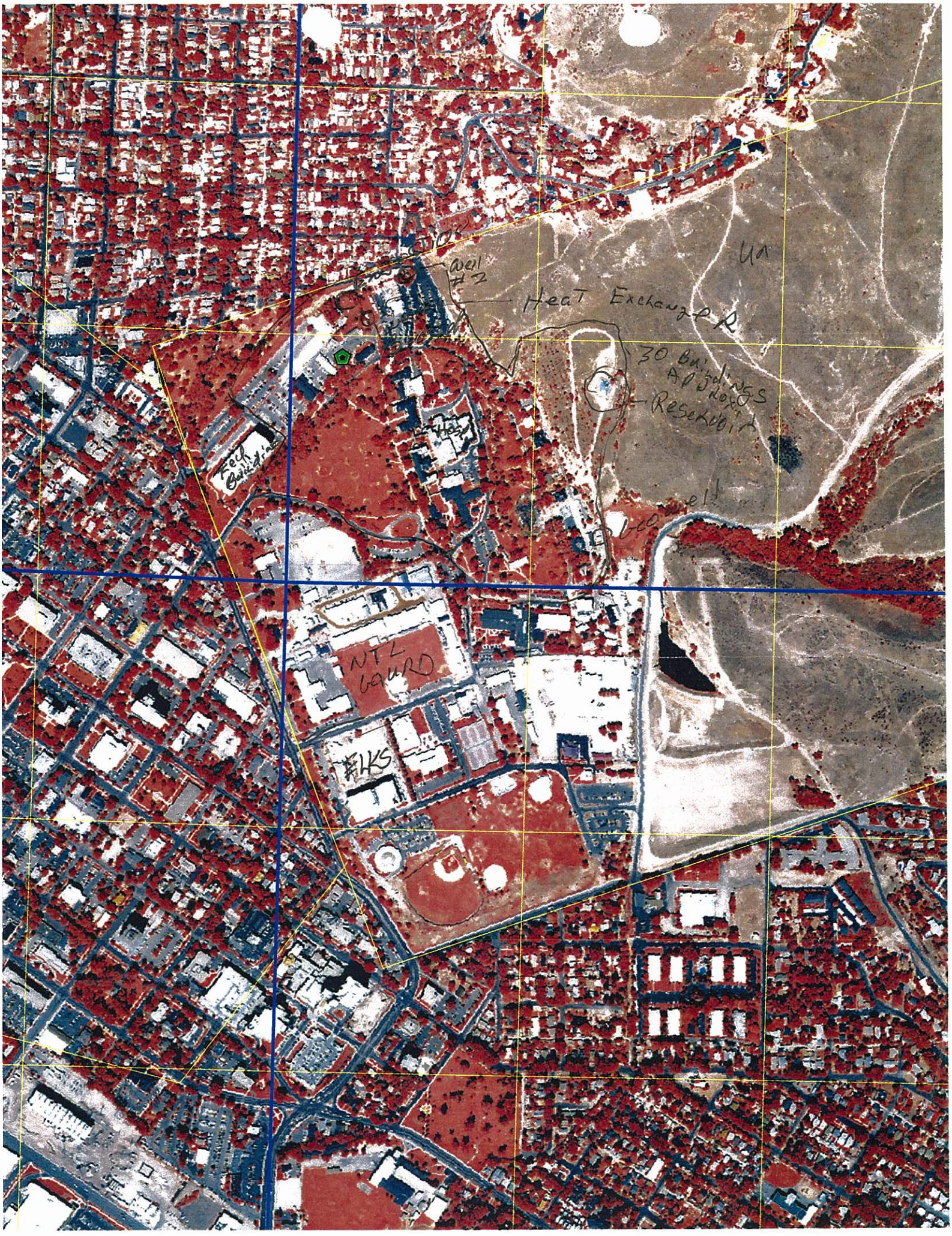
1 of 2

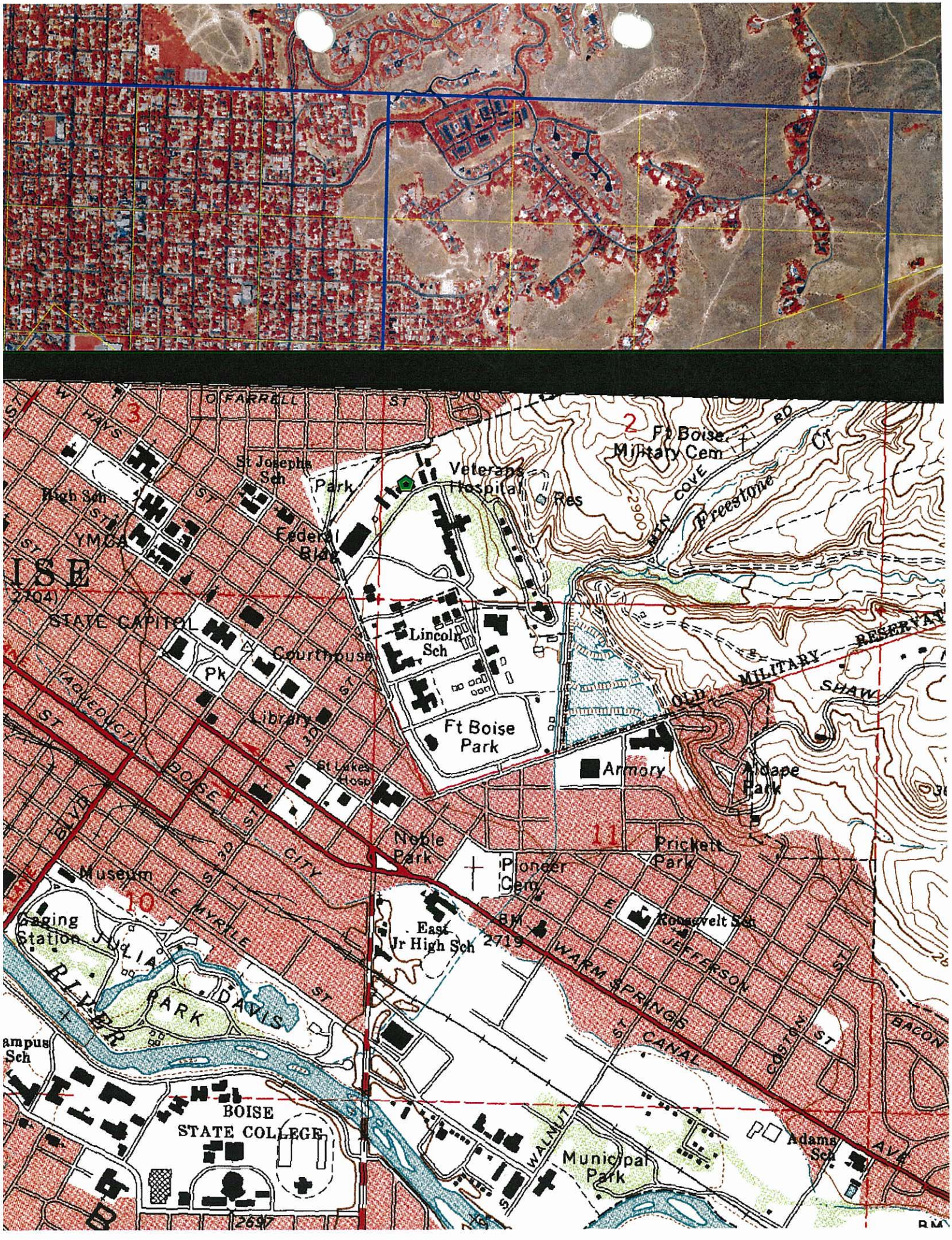
B-46

ENTRY NUMBER:3710

COMMENTS:
MOTOR/PUMP INFO MANU: LINCOLN SER # 3215598 HP 75 230/460 V 192/96 AMP 1775 RPM 60 CY FRAME 365T 1100 GPM

Enter RETURN to continue or '^' to exit:


Well #2
Heat Exchanger
30 Buildings
Reservoir
NTL GUARD
ELKS


O'FARRELL ST
W HAYS ST
St Josephs Sch
High Sch
YMCA
Federal Bldg
Veterans Hospital
Park
Res
Ft Boise Military Cem
2900
MEN COVE
Freestone
Lincoln Sch
STATE CAPITOL
Courthouse
Pk
Library
Ft Boise Park
MILITARY RESERVAT
OLD
SHAW
Armory
Idaho Park
St Lukes Hosp
BOISE CITY CANAL
Noble Park
Pioneer Cem
Prickett Park
Museum
Gaging Station
JULIA DAVIS PARK
East Jr High Sch
BM 2719
Roosevelt Sch
JEFFERSON
WARM SPRINGS CANAL
COLLEGE
BACON
Campus Sch
BOISE STATE COLLEGE
WALNUT
Municipal Park
Adams Sch
AVE
2697

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
App	63-10153	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E2										2	25	3					30
Permit	63-10153	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E2										2	25	3					30
Right	63-5220	VETERANS ADMNISTRATION CENTER,	GROUND WATER	03N02E2										2	25	3					30
Right	63-5221	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E2										2	25	3					30
App	63-10339	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E2										X	X	X					0
Permit	63-10339	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E2										X	X	X					0
Claim	63-29713	UNITED STATES OF AMERICA,	GROUND WATER	03N02E2									X	X	X						0
Claim	63-29714	UNITED STATES OF AMERICA,	GROUND WATER	03N02E2										X	X	X					0
Claim	63-29765	UNITED STATES OF AMERICA,	GROUND WATER	03N02E2											X						0
App	63-9890	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E2									X	X	X	X					0
Permit	63-9890	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E2									X	X	X	X					0
Claim	63-10386	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-10405	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-10533	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
App	63-10609	SOMERSET RIDGE HOMEOWNER ASSN,	GROUND WATER	03N02E2					1.2	0.8											2
Permit	63-10609	SOMERSET RIDGE HOMEOWNER ASSN,	GROUND WATER	03N02E2					1.2	0.8											2
Right	63-10609	SOMERSET RIDGE HOMEOWNER ASSN,	GROUND WATER	03N02E2					1.2	0.8											2
App	63-10716	SOMERSET RIDGE OWNERS ASSN,	GROUND WATER	03N02E2	1	3			3	1											8
Permit	63-10716	SOMERSET RIDGE OWNERS ASSN,	GROUND WATER	03N02E2	1	3			3	1											8
Claim	63-2506	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-2595	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-2668	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-2703	UNITED WATER IDAHO,		03N02E2	X			X													0
Claim	63-2808	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-2892	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
App	63-2905	HENRY F KOCH,	GROUND WATER	03N02E2										3							3
Permit	63-2905	HENRY F KOCH,	GROUND WATER	03N02E2										3							3
Right	63-2905	HENRY F KOCH,	GROUND WATER	03N02E2										3							3
Claim	63-3064	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3073	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3105	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3112	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3128	UNITED WATER IDAHO,		03N02E2	X			X													0
Claim	63-3172	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3202	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3291	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3292	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3293	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3295	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3411	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3448	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3494	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-3562	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
App	63-3656	US DEPT OF INTERIOR,	UNNAMED STREAM	03N02E2																X	0
Claim	63-3656		COTTONWOOD CREEK	03N02E2																X	0
Claim	63-3656		COTTONWOOD CREEK	03N02E2																X	0
Claim	63-3656		COTTONWOOD CREEK	03N02E2																X	0
Claim	63-3656		COTTONWOOD CREEK	03N02E2																X	0
Permit	63-3656	US DEPT OF INTERIOR,	UNNAMED STREAM	03N02E2																X	0
Right	63-3656	US DEPT OF INTERIOR,	UNNAMED STREAM	03N02E2																X	0
Claim	63-3657		SPRING	03N02E2				X													0
Claim	63-4015	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Right	63-4112	R V HANSBERGER,	COTTONWOOD CREEK	03N02E2															4	4	8
Right	63-4116	R V HANSBERGER,	GROUND WATER	03N02E2															4	4	8
Claim	63-4255	GARY A LA FAY, EUNICE R LA FAY,	GROUND WATER	03N02E2	X																0
Rec	63-4255	GARY A LA FAY, EUNICE R LA FAY,	GROUND WATER	03N02E2	X																0
Right	63-4255	GARY A LA FAY,	GROUND WATER	03N02E2	X																0
Claim	63-4414	BOISE WATER CORP,	GROUND WATER	03N02E2	X			X													0
Claim	63-4424	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-4752	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-7066	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-7204	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-7282	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-7348	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-7479	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-7589	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-7658	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-8059	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-8236	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-8357	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-8432	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-8990	BOISE WATER CORP,	GROUND WATER	03N02E2	X			X													0
Claim	63-8992	MICRON TECHNOLOGY INC,	GROUND WATER	03N02E2	X			X													0
Claim	63-9029	MICRON TECHNOLOGY INC,	GROUND WATER	03N02E2	X			X													0
Claim	63-9147	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-9204	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-9205	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-9219	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-9223	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-9276	CITY OF BOISE,	GROUND WATER	03N02E2	X			X													0
Claim	63-9671	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0
Claim	63-9855	UNITED WATER IDAHO,	GROUND WATER	03N02E2	X			X													0

yes
check
3 yes

BASIN	Sequence Number	Split Suffix	Basis	Status	Priority Date	RATE	Source List	Water Use List	Owner List	Source Table
63	5220		Statutory Claim	Active	1/1/1920	0.8	GROUND WATER	DOMESTIC, INDUSTRIAL, IRRIGATION	VETERANS ADMNISTRATION CENTER (Current)	Water Right
63	5221		Statutory Claim	Active	12/1/1940	0.8	GROUND WATER	DOMESTIC, INDUSTRIAL, IRRIGATION	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	Water Right
63	9890			Active	4/19/1982	2.23	GROUND WATER	HEATING	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	Water Right Permit
63	10153			Active	6/23/1983	0.7	GROUND WATER	INDUSTRIAL, IRRIGATION, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	Water Right Permit
63	10339			Active	1/14/1986	0.44	GROUND WATER	HEATING	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	Water Right Permit
63	16846		Beneficial Use	Active	10/1/1986	0.06	GROUND WATER	DOMESTIC, STOCKWATER	VETERANS ADMINISTRATION (Current)	Adjudication Claim
63	16846		Beneficial Use	Active	10/1/1986	0.06	GROUND WATER	DOMESTIC, STOCKWATER	VETERANS ADMINISTRATION (Current)	Adjudication Recommendation
63	16847		Beneficial Use	Active	1/1/1935	0.06	GROUND WATER	DOMESTIC, STOCKWATER	VETERANS ADMINISTRATION (Current)	Adjudication Claim
63	16847		Beneficial Use	Active	1/1/1935	0.06	GROUND WATER	DOMESTIC, STOCKWATER	VETERANS ADMINISTRATION (Current)	Adjudication Recommendation

PRivate Home SOME owner ELSE

Same as 16846 DiFFeRent LOCATION

BASIN	Sequence Number	Split Suffix	Basis	Status	Priority Date	RATE	Source List	Water Use List	Owner List	Source Table
63	19418		Beneficial Use	Active	12/31/1939	0.04	GROUND WATER	DOMESTIC	VETERANS ADMINISTRATION (Current)	Adjudication Claim
63	19418		Decreed	Active	12/31/1939	0.04	GROUND WATER	DOMESTIC	VETERANS ADMINISTRATION (Current)	Water Right
63	29713		Reserved	Active	1873-04-09	2.76	GROUND WATER	HEATING	AMERICA, UNITED STATES OF (Current)	Adjudication Claim
63	29714		Reserved	Active	1873-04-09	2.23	GROUND WATER	COMMERCIAL, DOMESTIC, INDUSTRIAL, IRRIGATION	AMERICA, UNITED STATES OF (Current)	Adjudication Claim

OUT TOO FAR away.

3N 2W S3 SE 1/4										
BASIN	Sequence Number	Split Suffix	Basis	Status	Priority Date	RATE	Source List	Water Use List	Owner List	Source Table
63	3413		License	Active	10/30/1964	2.89	GROUND WATER	IRRIGATION	CITY OF BOISE (Current)	wrAdjudicationClaim
63	3413		License	Active	10/30/1964	2.89	GROUND WATER	IRRIGATION	CITY OF BOISE (Current)	wrWaterRight
63	9341		Permit	Active	2/6/1980	5.57	GROUND WATER	HEATING	STATE OF IDAHO (Current)	wrAdjudicationClaim
63	11993		License	Active	2/12/1993	0.17	GROUND WATER	COOLING, HEATING	PARKLANE CO (Current)	wrWaterRight
63	17075		Beneficial Use	Active	6/1/1908	0.04	GROUND WATER	DOMESTIC	CORNER PROPERTIES INC (Current)	wrAdjudicationClaim
63	17075		Beneficial Use	Active	6/1/1908	0.04	GROUND WATER	DOMESTIC	CORNER PROPERTIES INC (Current)	wrAdjudicationRecommendation
63	17105		Beneficial Use	Active	7/1/1962	0.02	GROUND WATER	DOMESTIC	FORTE, DUANE H (Current); FORTE, MARY E (Current)	wrAdjudicationClaim
63	17105		Beneficial Use	Active	7/1/1962	0.02	GROUND WATER	DOMESTIC	FORTE, DUANE H (Current); FORTE, MARY E (Current)	wrAdjudicationRecommendation
63	29765		Reserved	Active	1873-04-09	0.38	GROUND WATER	COMMERCIAL, DOMESTIC, INDUSTRIAL, IRRIGATION	AMERICA, UNITED STATES OF (Current)	wrAdjudicationClaim

T3N R 2E S2 SW 1/4										
BASIN	Sequence Number	Split Suffix	Basis	Status	Priority Date	RATE	Source List	Water Use List	Owner List	Source Table
63	29713		Reserved	Active	1873-04-09	2.76	GROUND WATER	HEATING	AMERICA, UNITED STATES OF (Current)	wrAdjudicationClaim
63	29714		Reserved	Active	1873-04-09	2.23	GROUND WATER	COMMERCIAL, DOMESTIC, INDUSTRIAL, IRRIGATION	AMERICA, UNITED STATES OF (Current)	wrAdjudicationClaim
63	29765		Reserved	Active	1873-04-09	0.38	GROUND WATER	COMMERCIAL, DOMESTIC, INDUSTRIAL, IRRIGATION	AMERICA, UNITED STATES OF (Current)	wrAdjudicationClaim
63	2905		License	Active	8/12/1952	0.06	GROUND WATER	DOMESTIC, IRRIGATION	KOCH, HENRY F (Current)	wrWaterRight
63	5220		Statutory Claim	Active	1/1/1920	0.8	GROUND WATER	DOMESTIC, INDUSTRIAL, IRRIGATION	VETERANS ADMNISTRATION CENTER (Current)	wrWaterRight
63	5221		Statutory Claim	Active	12/1/1940	0.8	GROUND WATER	DOMESTIC, INDUSTRIAL, IRRIGATION	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	wrWaterRight
63	9139			Active	4/17/1978	12	GROUND WATER	COOLING, HEATING, IRRIGATION, MUNICIPAL	CITY OF BOISE (Current)	wrWaterPermit
63	9890			Active	4/19/1982	2.23	GROUND WATER	HEATING	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	wrWaterPermit
63	10153			Active	6/23/1983	0.7	GROUND WATER	INDUSTRIAL, IRRIGATION, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	wrWaterPermit
63	10339			Active	1/14/1986	0.44	GROUND WATER	HEATING	VETERANS ADMNISTRATION MEDICAL CENTER (Current)	wrWaterPermit

yes
yes
ck
no
yes
yes
no
yes
yes
yes

T3N R2E S11 NW 1/4										
BASIN	Sequence Number	Split Suffix	Basis	Status	Priority Date	RATE	Source List	Water Use List	Owner List	Source Table
63	2972		License	Active	12/10/1953	0.84	GROUND WATER	IRRIGATION	CITY OF BOISE (Current)	wrAdjudicationClaim
63	19371		Beneficial Use	Active	12/30/1945	0.02	GROUND WATER	DOMESTIC	CALLOWAY, JOHN O (Current); CALLOWAY, LORRAINE (Current)	wrAdjudicationClaim
63	22910		Beneficial Use	Active	11/1/1957	0.06	GROUND WATER	IRRIGATION	IDAHO ELKS REHABILITATION HOSPITAL (Current)	wrAdjudicationClaim
63	24127		Beneficial Use	Active	9/15/1940	0.08	GROUND WATER	DOMESTIC	CURINGTON, CECIL J (Current); CURINGTON, DOROTHY M (Current)	wrAdjudicationClaim
63	19371		Beneficial Use	Active	12/30/1945	0.02	GROUND WATER	DOMESTIC	THAEMERT, DIANNE M (Current); THAEMERT, THOMAS A (Current)	wrAdjudicationRecommendation
63	24127		Beneficial Use	Active	9/15/1940	0.08	GROUND WATER	DOMESTIC	CURINGTON, CECIL J (Current); CURINGTON, DOROTHY M (Current)	wrAdjudicationRecommendation
63	2972		License	Active	12/10/1953	0.84	GROUND WATER	IRRIGATION	CITY OF BOISE (Current)	wrWaterRight
63	3095		License	Active	8/31/1956	0.02	GROUND WATER	DOMESTIC, IRRIGATION	ATKINSON, GEORGE A (Current); ATKINSON, ROSA F (Current)	wrWaterRight
63	9139			Active	4/17/1978	12	GROUND WATER	COOLING, HEATING, IRRIGATION, MUNICIPAL	CITY OF BOISE (Current)	wrWaterPermit

Idaho Dept. of Water Resources
Place of Use Comparison Report

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Claim	63-5075	BOISE WARM SPRINGS WATER DISTRICT,	GROUND WATER	03N03E10			X	X									X				0
Claim	63-5079	BOISE WARM SPRINGS WATER DISTRICT,	GROUND WATER	03N03E10	X		X										X				0
Right	63-5073	BOISE WARM SPRINGS WATER DISTRICT,	GROUND WATER	03N03E10	X		X	X									X				0
Claim	63-7168	STATE OF IDAHO,	GROUND WATER	03N03E10	X	X															0
Rec	63-7168	STATE OF IDAHO,	GROUND WATER	03N03E10	X	X															0
App	63-9341	STATE OF IDAHO,	GROUND WATER	03N03E10	X																0
Claim	63-9341	STATE OF IDAHO,	GROUND WATER	03N03E10	X																0
Permit	63-9341	STATE OF IDAHO,	GROUND WATER	03N03E10	X																0
App	63-10222	ALASKA CENTER LTD PARTNERSHIP,	GROUND WATER	03N03E10					X												0
Permit	63-10222	ALASKA CENTER LTD PARTNERSHIP,	GROUND WATER	03N03E10					X												0
Right	63-10222	ALASKA CENTER LTD PARTNERSHIP,	GROUND WATER	03N03E10					X												0
Right	63-10744A	RICHARD M HORMAECHEA,	GROUND WATER	03N03E10								0.1		3.1							3.2
Right	63-10744B	RICHARD M HORMAECHEA,	GROUND WATER	03N03E10								0.3		0.4							0.7
App	63-10773	W E PIERCE BUILDING ASSOC,	GROUND WATER	03N03E10		X															0
Permit	63-10773	W E PIERCE BUILDING ASSOC,	GROUND WATER	03N03E10		X															0
Right	63-10773	W E PIERCE BUILDING ASSOC,	GROUND WATER	03N03E10		X															0
App	63-12942	PARKLANE CO.	GROUND WATER	03N03E10		X															0
Permit	63-12942	PARKLANE CO.	GROUND WATER	03N03E10		X															0
Claim	63-1298		BOISE RIVER	03N03E10																	0
Right	63-1238	JACOBS CANAL CO.,	BOISE RIVER	03N03E10																	0
App	63-12413	K COMPANY,	GROUND WATER	03N03E10		X															0
Permit	63-12413	K COMPANY,	GROUND WATER	03N03E10		X															0
App	63-12521	RMH CO.	GROUND WATER	03N03E10									X								0
Permit	63-12521	RMH CO.	GROUND WATER	03N03E10									X								0
App	63-12523	BOISE TOWER ASSOC.	GROUND WATER	03N03E10					X												0
Permit	63-12523	BOISE TOWER ASSOC.	GROUND WATER	03N03E10					X												0
App	63-12583	PARKLANE CO.	GROUND WATER	03N03E10					X												0
Permit	63-12583	PARKLANE CO.	GROUND WATER	03N03E10					X												0
Right	63-148C	SOUTH BOISE WATER CO.	BOISE RIVER	03N03E10											5	8			4	2	19
Claim	63-164C	CITY OF BOISE,	BOISE RIVER	03N03E10										1							1
Claim	63-17915	STEINER CORP.	GROUND WATER	03N03E10						X											0
Claim	63-19274		BOISE RIVER	03N03E10										1							1
Claim	63-20040	BOISE CITY CANAL COMPANY,	BOISE RIVER	03N03E10													2.1				2.1
Claim	63-20041	BOISE CITY CANAL COMPANY,	BOISE RIVER	03N03E10													2.1				2.1
App	63-2562	DRAINAGE DISTRICT NO 3,	A DRAIN, B MAIN DRAIN, DRAIN B1, DRAIN E	03N03E10											X						0
Permit	63-2562	DRAINAGE DISTRICT NO 3,	A DRAIN, B MAIN DRAIN, DRAIN B1, DRAIN E	03N03E10											X						0
Right	63-2562	DRAINAGE DISTRICT NO 3,	A DRAIN, B MAIN DRAIN, DRAIN B1, DRAIN E	03N03E10											X						0
Claim	63-35321	STATE OF IDAHO,	GROUND WATER	03N03E10												X				X	0
App	63-3548	F O FLETCHER,	GROUND WATER	03N03E10				1													1
Permit	63-3548	F O FLETCHER,	GROUND WATER	03N03E10				1													1
Right	63-3548	F O FLETCHER,	GROUND WATER	03N03E10				1													1
App	63-3579	J O JORDAN,	GROUND WATER	03N03E10	X																0
Permit	63-3579	J O JORDAN,	GROUND WATER	03N03E10	X																0
Right	63-3579	J O JORDAN,	GROUND WATER	03N03E10	X																0
App	63-3582	OWYHEE HOTEL CO.	GROUND WATER	03N03E10					X												0
Permit	63-3582	OWYHEE HOTEL CO.	GROUND WATER	03N03E10					X												0
Right	63-3582	OWYHEE HOTEL CO.	GROUND WATER	03N03E10					X												0
App	63-3674	JOHN ALDAPE,	GROUND WATER	03N03E10		X															0
Permit	63-3674	JOHN ALDAPE,	GROUND WATER	03N03E10		X															0
Right	63-3674	JOHN ALDAPE,	GROUND WATER	03N03E10		X															0
Claim	63-27213	BOISE STATE UNIVERSITY,	GROUND WATER	03N03E10											10	14			8	6	38
Claim	63-27214	BOISE STATE UNIVERSITY,	GROUND WATER	03N03E10											10	14			8	6	38
Claim	63-27215	BOISE STATE UNIVERSITY,	GROUND WATER	03N03E10											10	14			8	6	38
Claim	63-27217	BOISE STATE UNIVERSITY,	GROUND WATER	03N03E10											10	14			8	6	38
App	63-2774	WALTER DUFRESNE,	GROUND WATER	03N03E10					X												0
Permit	63-2774	WALTER DUFRESNE,	GROUND WATER	03N03E10					X												0
Right	63-2774	WALTER DUFRESNE,	GROUND WATER	03N03E10					X												0
App	63-2792	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
Claim	63-2792	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
Permit	63-2792	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
Right	63-2792	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
App	63-2843	CITY OF BOISE,	GROUND WATER	03N03E10									X	X	X	X	X	X	X	X	0
Claim	63-2843	CITY OF BOISE,	GROUND WATER	03N03E10									X	X	X	X	X	X	X	X	0
Permit	63-2843	CITY OF BOISE,	GROUND WATER	03N03E10									X	X	X	X	X	X	X	X	0
Right	63-2843	CITY OF BOISE,	GROUND WATER	03N03E10									X	X	X	X	X	X	X	X	0
App	63-2962	J R MENDENHALL,	GROUND WATER	03N03E10					X												0
Permit	63-2962	J R MENDENHALL,	GROUND WATER	03N03E10					X												0
Right	63-2962	J R MENDENHALL,	GROUND WATER	03N03E10					X												0
App	63-2824	BROADBENT EST INC,	GROUND WATER	03N03E10					X												0
Permit	63-2824	BROADBENT EST INC,	GROUND WATER	03N03E10					X												0
Right	63-2824	BROADBENT EST INC,	GROUND WATER	03N03E10					X												0
App	63-2947	BOISE ICE & PRODUCE CO,	GROUND WATER	03N03E10								X									0
Permit	63-2947	BOISE ICE & PRODUCE CO,	GROUND WATER	03N03E10								X									0
Right	63-2947	BOISE ICE & PRODUCE CO,	GROUND WATER	03N03E10								X									0
App	63-2952	IDAHO LAUNDRY,	GROUND WATER	03N03E10								X									0
Permit	63-2952	IDAHO LAUNDRY,	GROUND WATER	03N03E10								X									0
Right	63-2952	IDAHO LAUNDRY,	GROUND WATER	03N03E10								X									0
Claim	63-3024	WEST ONE BANK IDAHO NA	GROUND WATER	03N03E10					X												0
App	63-3038	FIRST SECURITY BANK OF IDAHO,	GROUND WATER	03N03E10					X												0
Permit	63-3038	FIRST SECURITY BANK OF IDAHO,	GROUND WATER	03N03E10					X												0
Right	63-3038	FIRST SECURITY BANK OF IDAHO,	GROUND WATER	03N03E10					X												0
Claim	63-30418	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
Claim	63-30449	CITY OF BOISE,	GROUND WATER	03N03E10											X						0
App	63-3147	CITY OF BOISE,	GROUND WATER	03N03E10										1							1
Claim	63-3147	CITY OF BOISE,	GROUND WATER	03N03E10										1							1
Permit	63-3147	CITY OF BOISE,	GROUND WATER	03N03E10										1							1
Right	63-3147	CITY OF BOISE,	GROUND WATER	03N03E10										1							1
App	63-3284	STATE OF IDAHO,	GROUND WATER	03N03E10		3															3
Claim	63-3284	STATE OF IDAHO,	GROUND WATER	03N03E10		3															3
Permit	63-3284	STATE OF IDAHO,	GROUND WATER	03N03E10		3															3
Right	63-3284	STATE OF IDAHO,	GROUND WATER	03N03E10		3															3
App	63-3413	CITY OF BOISE,	GROUND WATER	03N03E10		2								3	4						9
Claim	63-3413	CITY OF BOISE,	GROUND WATER	03N03E10		2								3	4						9
Permit	63-3413	CITY OF BOISE,	GROUND WATER	03N03E10		2								3	4						9
Right	63-3413	CITY OF BOISE,	GROUND WATER	03N03E10		2								3	4						9
App	63-3569	IDAHO LAUNDRY & DRY CLEANERS,	GROUND WATER	03N03E10								X									0
Claim	63-3569	IDAHO LINEN SUPPLY INC,	GROUND WATER	03N03E10								X									0
Permit	63-3569	IDAHO LAUNDRY & DRY CLEANERS,	GROUND WATER	03N03E10								X									0
Right	63-3569	IDAHO LAUNDRY & DRY CLEANERS,	GROUND WATER	03N03E10								X									0
Right	63-4865	IDAHO CANDY CO.	GROUND WATER	03N03E10								X									0
Right	63-5360	SEATTLE EYE BUILDING CORP.,	GROUND WATER	03N03E10								X									0
App	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
App	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10													X	X			0
Claim	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10													X	X			0
Claim	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
Permit	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
Permit	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10													X	X			0
Right	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10									22			8	1	6	27	19	83
Right	63-7034	CITY OF BOISE,	GROUND WATER	03N03E10													X	X			0
App	63-7091	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10														X			0
Claim	63-7091	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10														X			0
Permit	63-7091	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10														X			0
Right	63-7091	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10														X			0
App	63-7168	STATE OF IDAHO,	GROUND WATER	03N03E10		X															0
Permit	63-7168	STATE OF IDAHO,	GROUND WATER	03N03E10		X															0
Right	63-7168	STATE OF IDAHO,	GROUND WATER	03N03E10		X															0
App	63-7267	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10												X					0
Claim	63-7267	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10												X					0
Permit	63-7267	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10												X					0
Right	63-7267	BOISE STATE UNIVERSITY,	BOISE RIVER	03N03E10												X					0
App	63-7523	CITY OF BOISE,	GROUND WATER	03N03E10										4							4
Claim	63-7523	CITY OF BOISE,	GROUND WATER	03N03E10										4							4
Permit	63-7523	CITY OF BOISE,	GROUND WATER	03N03E10										4							4
Right	63-7523	CITY OF BOISE,	GROUND WATER	03N03E10										4							4
App	63-7728	CITY OF BOISE,	GROUND WATER	03N03E10								1									1
Claim	63-7728	CITY OF BOISE,	GROUND WATER	03N03E10								1									1
Permit	63-7728	CITY OF BOISE,	GROUND WATER	03N03E10								1									1
Right	63-7728	CITY OF BOISE,	GROUND WATER	03N03E10								1									1
App	63-7791	PROVIDENT FEDERAL SAVINGS & LOAN ASSN,	GROUND WATER	03N03E10					X												0
Permit	63-7791	PROVIDENT FEDERAL SAVINGS & LOAN ASSN,	GROUND WATER	03N03E10					X												0
Right	63-7791	PROVIDENT FEDERAL SAVINGS & LOAN ASSN,	GROUND WATER	03N03E10					X												0

NOWP shown.

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
App	63-10153	VETERANS ADMINISTRATION MEDICAL CENTER,	GROUND WATER	03N02E11					1	1											2
Permit	63-10153	VETERANS ADMINISTRATION MEDICAL CENTER,	GROUND WATER	03N02E11					1	1											2
Right	63-5220	VETERANS ADMINISTRATION CENTER,	GROUND WATER	03N02E11					1	1											2
Right	63-5221	VETERANS ADMINISTRATION MEDICAL CENTER,	GROUND WATER	03N02E11					1	1											2
Claim	63-22910	IDAHO ELKS REHABILITATION HOSPITAL,	GROUND WATER	03N02E11						2											2
Claim	63-2972	CITY OF BOISE,	GROUND WATER	03N02E11					4	2	9	6									21
App	63-2566	BOISE INDEPENDENT SCHOOL DIST,	GROUND WATER	03N02E11						15											15
Permit	63-2566	BOISE INDEPENDENT SCHOOL DIST,	GROUND WATER	03N02E11						15											15
Right	63-2566	BOISE INDEPENDENT SCHOOL DIST,	GROUND WATER	03N02E11						15											15
App	63-2972	CITY OF BOISE,	GROUND WATER	03N02E11					5	18	15	5									43
Permit	63-2972	CITY OF BOISE,	GROUND WATER	03N02E11					5	18	15	5									43
Right	63-2972	CITY OF BOISE,	GROUND WATER	03N02E11					5	18	15	5									43
Claim	63-29714	UNITED STATES OF AMERICA,	GROUND WATER	03N02E11					X	X											0
App	63-10339	VETERANS ADMINISTRATION MEDICAL CENTER,	GROUND WATER	03N02E11					X												0
Permit	63-10339	VETERANS ADMINISTRATION MEDICAL CENTER,	GROUND WATER	03N02E11					X												0
App	63-10570	SQUARE AT STRAWBERRY LANE TOWNHOUSE,	GROUND WATER	03N02E11												0.5					0.5
Permit	63-10570	SQUARE AT STRAWBERRY LANE TOWNHOUSE,	GROUND WATER	03N02E11												0.5					0.5
Right	63-10570	SQUARE AT STRAWBERRY LANE TOWNHOUSE,	GROUND WATER	03N02E11												0.5					0.5
App	63-11021	RODNEY H HERR, MARCIA H HERR,	GROUND WATER	03N02E11																1.7	1.7
Permit	63-11021	RODNEY H HERR, MARCIA H HERR,	GROUND WATER	03N02E11																1.7	1.7
Right	63-11021	RODNEY H HERR, MARCIA H HERR,	GROUND WATER	03N02E11																1.7	1.7
App	63-12274	S-SIXTEEN LIMITED PARTNERSHIP,	GROUND WATER	03N02E11										0.6	0.6						1.2
Claim	63-1238		BOISE RIVER	03N02E11																	0
Right	63-1238	JACOBS CANAL CO,	BOISE RIVER	03N02E11																	0
Claim	63-15336	DOROTHY J BROYLES, NEAL A BROYLES,	GROUND WATER	03N02E11																X	0
Rec	63-15336	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11																X	0
Claim	63-15752	PENELOPE JANE FENGER-CORNWALL, WILLIAM FENGER-CORNWALL,	GROUND WATER	03N02E11															0.7		0.7
Claim	63-16269	HOMER R GARRETT, ROBERTA GARRETT,	GROUND WATER	03N02E11																X	0
Rec	63-16269	HOMER R GARRETT, ROBERTA GARRETT,	GROUND WATER	03N02E11																X	0
Claim	63-16910	CLYDE E BUNTING, MARGARET A BUNTING,	GROUND WATER	03N02E11												X					0
Rec	63-16910	CLYDE E BUNTING, MARGARET A BUNTING,	GROUND WATER	03N02E11												X					0
Claim	63-16982	MIKE HOLBROOK, MONTIE M HOLBROOK,	GROUND WATER	03N02E11										X							0
Rec	63-16982	MIKE HOLBROOK, MONTIE M HOLBROOK,	GROUND WATER	03N02E11										X							0
Claim	63-17051	GERALD R BELL, ROSALIE M BELL,	GROUND WATER	03N02E11													X				0
Rec	63-17051	GERALD R BELL, ROSALIE M BELL,	GROUND WATER	03N02E11													X				0
Claim	63-17070	BOYCE M WILLIAMSON, JEAN F WILLIAMSON,	GROUND WATER	03N02E11																X	0
Rec	63-17070	JEAN F WILLIAMSON, BOYCE M WILLIAMSON,	GROUND WATER	03N02E11																X	0
Claim	63-17113	JOSEPH H UBERUAGA II,	GROUND WATER	03N02E11	X																0
Rec	63-17113	JOSEPH H UBERUAGA II,	GROUND WATER	03N02E11	X																0
Claim	63-17158	TONI BASTIDA-HICKS, CHARLES F HUMMEL,	GROUND WATER	03N02E11																1	1
Claim	63-19371	LORRAINE CALLOWAY, JOHN O CALLOWAY,	GROUND WATER	03N02E11							X										0
Rec	63-19371	DIANE M THAEMERT, THOMAS A THAEMERT,	GROUND WATER	03N02E11							X										0
Claim	63-19383	MAURICE BYRNE, MYRTLE BYRNE,	GROUND WATER	03N02E11																X	0
Right	63-19383	MAURICE BYRNE, MYRTLE BYRNE,	GROUND WATER	03N02E11																X	0
Claim	63-19651	CAROL L MAC GREGOR,	GROUND WATER	03N02E11															1		1
Claim	63-19651	CAROL L MAC GREGOR,	GROUND WATER	03N02E11															X		0
Claim	63-19935	STEPHEN W ASHER,	GROUND WATER	03N02E11															X		0
Rec	63-19935	STEPHEN W ASHER,	GROUND WATER	03N02E11															X		0
Claim	63-20040	BOISE CITY CANAL COMPANY,	BOISE RIVER	03N02E11									0.9	3	7.1	9.3				1.6	21.9
Claim	63-20041	BOISE CITY CANAL COMPANY,	BOISE RIVER	03N02E11									0.9	3	7.1	9.3				1.6	21.9
Claim	63-23318	ROBERT F SMITH MD, CYDNEY A WEILAND,	GROUND WATER	03N02E11																X	0
Rec	63-23318	ROBERT F SMITH MD, CYDNEY A WEILAND,	GROUND WATER	03N02E11																X	0
Claim	63-24127	DOROTHY M CURINGTON, CECIL J CURINGTON,	GROUND WATER	03N02E11							X										0
Rec	63-24127	CECIL J CURINGTON, DOROTHY M CURINGTON,	GROUND WATER	03N02E11							X										0
Claim	63-2566	INDEPENDENT SCHOOL DISTRICT OF BOISE,	GROUND WATER	03N02E11										15							15
Claim	63-26136	WILLIAM B KNIPE JR, DIANE A KNIPE,	GROUND WATER	03N02E11													X				0
Rec	63-26136	WILLIAM B KNIPE JR, DIANE A KNIPE,	GROUND WATER	03N02E11													X				0
Claim	63-26363	MARJORIE DAVIDSON,	GROUND WATER	03N02E11									X								0
Rec	63-26363	CHRISTOPHER DAVIDSON,	GROUND WATER	03N02E11									X								0
Right	63-26363	MARJORIE DAVIDSON,	GROUND WATER	03N02E11									X								0
Claim	63-26372	CHRISTOPHER DAVIDSON,	GROUND WATER	03N02E11									5								5
App	63-2642	JOE P ALDAPE,	GROUND WATER	03N02E11			24														24
Permit	63-2642	JOE P ALDAPE,	GROUND WATER	03N02E11			24														24
Right	63-2642	JOE P ALDAPE,	GROUND WATER	03N02E11			24														24
Claim	63-27176	LOIS M LENZI, WILLIAM D LENZI,	GROUND WATER	03N02E11																X	0
Claim	63-27630	STANLEY N PROTIGAL,	GROUND WATER	03N02E11									X								0
Right	63-27630	STANLEY N PROTIGAL,	GROUND WATER	03N02E11									X								0
App	63-2971	CITY OF BOISE,	GROUND WATER	03N02E11							1			6							7
Claim	63-2971	CITY OF BOISE,	GROUND WATER	03N02E11							1			6							7
Permit	63-2971	CITY OF BOISE,	GROUND WATER	03N02E11							1			6							7
Right	63-2971	CITY OF BOISE,	GROUND WATER	03N02E11							1			6							7
Claim	63-29713	UNITED STATES OF AMERICA,	GROUND WATER	03N02E11					X												0
App	63-3095	GEORGE A ATKINSON, ROSA F ATKINSON,	GROUND WATER	03N02E11							1										1
Permit	63-3095	GEORGE A ATKINSON, ROSA F ATKINSON,	GROUND WATER	03N02E11							1										1
Right	63-3095	GEORGE A ATKINSON, ROSA F ATKINSON,	GROUND WATER	03N02E11							1										1
App	63-3306	HOWARD W PAUL,	GROUND WATER	03N02E11	1																1
Permit	63-3306	HOWARD W PAUL,	GROUND WATER	03N02E11	1																1
Right	63-3306	HOWARD W PAUL,	GROUND WATER	03N02E11	1																1
Claim	63-4618	MARY L DIXON,	GROUND WATER	03N02E11																X	0
Rec	63-4618	MARY L DIXON,	GROUND WATER	03N02E11																X	0
Right	63-4618	JANE L MIHELICH,	GROUND WATER	03N02E11																X	0
Claim	63-4774	H T PLUMB, GERALDINE H PLUMB,	GROUND WATER	03N02E11																X	0
Rec	63-4774	GERALDINE H PLUMB, H T PLUMB,	GROUND WATER	03N02E11																X	0
Right	63-4774	H T PLUMB, GERALDINE H PLUMB,	GROUND WATER	03N02E11																1	1
Claim	63-5073	BOISE WARM SPRINGS WATER DISTRICT,	GROUND WATER	03N02E11							X		X	X		X	X	X	X	X	0
Claim	63-5073	BOISE WARM SPRINGS WATER DISTRICT,	GROUND WATER	03N02E11							X		X	X		X	X	X	X	X	0
Right	63-5073	BOISE WARM SPRINGS WATER DISTRICT,	GROUND WATER	03N02E11							X		X	X		X	X	X	X	X	0
Right	63-5147	CLARENCE J TAYLOR,	GROUND WATER	03N02E11											2						2
Claim	63-5175	MARJORIE DAVIDSON,	GROUND WATER	03N02E11											2	6					8
Right	63-5175	MARJORIE DAVIDSON,	GROUND WATER	03N02E11											2	6					8
App	63-7165	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11																1	1
Claim	63-7165	DOROTHY J BROYLES, NEAL A BROYLES,	GROUND WATER	03N02E11																X	0
Permit	63-7165	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11																1	1
Rec	63-7165	DOROTHY J BROYLES, NEAL A BROYLES,	GROUND WATER	03N02E11																X	0
Right	63-7165	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11																1	1
App	63-7170	MORRISON KNUDSEN CO INC,	GROUND WATER	03N02E11												5					5
Permit	63-7170	MORRISON KNUDSEN CO INC,	GROUND WATER	03N02E11												5					5
Right	63-7170	MORRISON KNUDSEN CO INC,	GROUND WATER	03N02E11												5					5
App	63-8109	EMKAY DEVELOPMENT CO INC,	GROUND WATER	03N02E11											X						0
Permit	63-8109	EMKAY DEVELOPMENT CO INC,	GROUND WATER	03N02E11											X						0
Right	63-8109	EMKAY DEVELOPMENT CO INC,	GROUND WATER	03N02E11											X						0
App	63-9837	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11													X				0
Claim	63-9837	DOROTHY J BROYLES, NEAL A BROYLES,	GROUND WATER	03N02E11													X				0
Permit	63-9837	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11													X				0
Rec	63-9837	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11													X				0
Right	63-9837	NEAL A BROYLES, DOROTHY J BROYLES,	GROUND WATER	03N02E11													X				0

5 yes

3 yes

Idaho Dept. of Water Resources
Place of Use Comparison Report

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
App	63-10153	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E3																1	1
Permit	63-10153	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E3																1	1
Right	63-5220	VETERANS ADMNISTRATION CENTER,	GROUND WATER	03N02E3																1	1
Right	63-5221	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E3																1	1
App	63-3413	CITY OF BOISE,	GROUND WATER	03N02E3						1	1						1			2	5
Claim	63-3413	CITY OF BOISE,	GROUND WATER	03N02E3						1	1						1			2	5
Permit	63-3413	CITY OF BOISE,	GROUND WATER	03N02E3						1	1						1			2	5
Right	63-3413	CITY OF BOISE,	GROUND WATER	03N02E3						1	1						1			2	5
App	63-10339	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E3																X	0
Permit	63-10339	VETERANS ADMNISTRATION MEDICAL CENTER,	GROUND WATER	03N02E3																X	0
Claim	63-29713	UNITED STATES OF AMERICA,	GROUND WATER	03N02E3																X	0
Claim	63-29714	UNITED STATES OF AMERICA,	GROUND WATER	03N02E3																X	0
Claim	63-29765	UNITED STATES OF AMERICA,	GROUND WATER	03N02E3																X	0
App	63-10609	SOMERSET RIDGE HOMEOWNER ASSN,	GROUND WATER	03N02E3	0.2																0.2
Permit	63-10609	SOMERSET RIDGE HOMEOWNER ASSN,	GROUND WATER	03N02E3	0.2																0.2
Right	63-10609	SOMERSET RIDGE HOMEOWNER ASSN,	GROUND WATER	03N02E3	0.2																0.2
App	63-11993	PARKLANE CO,	GROUND WATER	03N02E3															X		0
Permit	63-11993	PARKLANE CO,	GROUND WATER	03N02E3															X		0
Right	63-11993	PARKLANE CO,	GROUND WATER	03N02E3															X		0
Claim	63-16061	HAROLD MC WHIRTER, ALMA MC WHIRTER,	GROUND WATER	03N02E3	X																0
Rec	63-16061	HAROLD MC WHIRTER, ALMA MC WHIRTER,	GROUND WATER	03N02E3	X																0
Claim	63-16924	HARRIET H NETSON, ROBERT L NETSON,	GROUND WATER	03N02E3							X										0
Rec	63-16924	ROBERT L NETSON, HARRIET H NETSON,	GROUND WATER	03N02E3							X										0
Claim	63-17075	CORNER PROPERTIES INC,	GROUND WATER	03N02E3						X											0
Rec	63-17075	CORNER PROPERTIES INC,	GROUND WATER	03N02E3														X			0
Claim	63-17077	MRS JOSE M GUERRICABEITIA, JOSE M GUERRICABEITIA,	GROUND WATER	03N02E3									X								0
Rec	63-17077	JOSE M GUERRICABEITIA, MRS JOSE M GUERRICABEITIA,	GROUND WATER	03N02E3											X						0
Claim	63-17087	GERALD STADSTAD,	GROUND WATER	03N02E3									X								0
Rec	63-17087	GERALD STADSTAD,	GROUND WATER	03N02E3									X								0
Claim	63-17105	DUANE H FORTE, MARY E FORTE,	GROUND WATER	03N02E3													X				0
Rec	63-17105	MARY E FORTE, DUANE H FORTE,	GROUND WATER	03N02E3													X				0
Claim	63-18398	JAMES M EYRE, EDWENA M EYRE,	GROUND WATER	03N02E3						X											0
Rec	63-18398	JAMES M EYRE, EDWENA M EYRE,	GROUND WATER	03N02E3						X											0
Claim	63-18595	JOHN C OWEN, EILEEN A OWEN,	GROUND WATER	03N02E3									X								0
Claim	63-18595	JOHN C OWEN, EILEEN A OWEN,	GROUND WATER	03N02E3									X								0
Claim	63-18653	MARTIN V THOMAS,	GROUND WATER	03N02E3								X									0
Right	63-18653	MARTIN V THOMAS,	GROUND WATER	03N02E3								X									0
Claim	63-19385	ANNE HAMILTON, JOEL WILLIAMS,	GROUND WATER	03N02E3					X												0
Right	63-19385	ANNE HAMILTON, JOEL WILLIAMS,	GROUND WATER	03N02E3					X												0
Claim	63-19586	RICHARD SNOW, BRENDA J SNOW,	GROUND WATER	03N02E3								X									0
Right	63-19586	RICHARD SNOW, BRENDA J SNOW,	GROUND WATER	03N02E3								X									0
Claim	63-20040	BOISE CITY CANAL COMPANY,	BOISE RIVER	03N02E3					0.1		1.1										1.2
Claim	63-20041	BOISE CITY CANAL COMPANY,	BOISE RIVER	03N02E3					0.1		1.1										1.2
Claim	63-22686	DONALD ACREE, DANA ACREE,	GROUND WATER	03N02E3		X															0
Rec	63-22686	DANA ACREE, DONALD ACREE,	GROUND WATER	03N02E3		X															0
App	63-2692	RALPH E GALE,	GROUND WATER	03N02E3										X							0
Permit	63-2692	RALPH E GALE,	GROUND WATER	03N02E3										X							0
Right	63-2692	RALPH E GALE,	GROUND WATER	03N02E3										X							0
App	63-2694	RICHARD A NICHOLS,	GROUND WATER	03N02E3	X																0
Permit	63-2694	RICHARD A NICHOLS,	GROUND WATER	03N02E3	X																0
Right	63-2694	RICHARD A NICHOLS,	GROUND WATER	03N02E3	X																0
App	63-2773	WALTER DUFRESNE,	GROUND WATER	03N02E3								X									0
Permit	63-2773	WALTER DUFRESNE,	GROUND WATER	03N02E3								X									0
Right	63-2773	WALTER DUFRESNE,	GROUND WATER	03N02E3								X									0
App	63-2783	CLARENCE J RIGNEY, MRS CLARENCE J RIGNEY,	GROUND WATER	03N02E3	X																0
Permit	63-2783	CLARENCE J RIGNEY, MRS CLARENCE J RIGNEY,	GROUND WATER	03N02E3	X																0
Right	63-2783	CLARENCE J RIGNEY, MRS CLARENCE J RIGNEY,	GROUND WATER	03N02E3	X																0
App	63-3058	IDAHO POWER CO,	GROUND WATER	03N02E3												X					0
Claim	63-3058	IDAHO POWER CO,	GROUND WATER	03N02E3												X					0
Permit	63-3058	IDAHO POWER CO,	GROUND WATER	03N02E3												X					0
Right	63-3058	IDAHO POWER CO,	GROUND WATER	03N02E3												X					0
App	63-7378	EUGENE B COCKERUM,	GROUND WATER	03N02E3								X									0
Claim	63-7378	EUGENE B COCKERUM,	GROUND WATER	03N02E3								X									0
Permit	63-7378	EUGENE B COCKERUM,	GROUND WATER	03N02E3								X									0
Right	63-7378	EUGENE B COCKERUM,	GROUND WATER	03N02E3								X									0

X 05

Yes

GENERAL INFO

NAME: Denis Johnson VA Med Ctr

PERMIT #: 63-9890 & 10339

PHONE #: 338 7290

CASING:

HP: 2 Speed, Bowls @ ~~165~~ 110' prior

DYNAMIC:
STATIC:
DEPTH:

PSI:

ACRES IRRIGATED:

SPRINKLER INFO:
LATERALS:
SIZE:
LENGTH:

STOCK:

DOMESTICS:

OTHER USES: HEAT.

OTHER RTS:

DIRECTIONS:

Need engine

Pumps run
heat exch
hot water

These need measurement info. Check w/ Ken Neely to see if it has been submitted. Otherwise, exams can probably be prepared.

See system memo inside

low
high

Straight ahead past FED Bldg - ~~[illegible]~~ 3 bldgs. 3rd Bldng (#50) - Some parking next bldg down frame ~~bldg~~ building - cream.

Parma Pump?

EXAM DATE: Thurs 11/18 8:30

require data logger?

GENERAL INFO

NAME: Dems Johnson VA Med Ctr

PERMIT #: 63-9890 & 10339

PHONE #: 338 7290

CASING:

HP: 2 Speed, Bowls @ ~~65~~ 110' prior to this fall PL = 55' LOW = 60' HIGH
Now @ 200 ?

DYNAMIC:
STATIC:
DEPTH:

PSI:

Need engineering specs.

ACRES IRRIGATED:

SPRINKLER INFO:
LATERALS:
SIZE:
LENGTH:

Pumps run continually for heat exchanger & domestic hot water.

STOCK:

DOMESTICS:

OTHER USES: HEAT.

OTHER RTS:

DIRECTIONS:

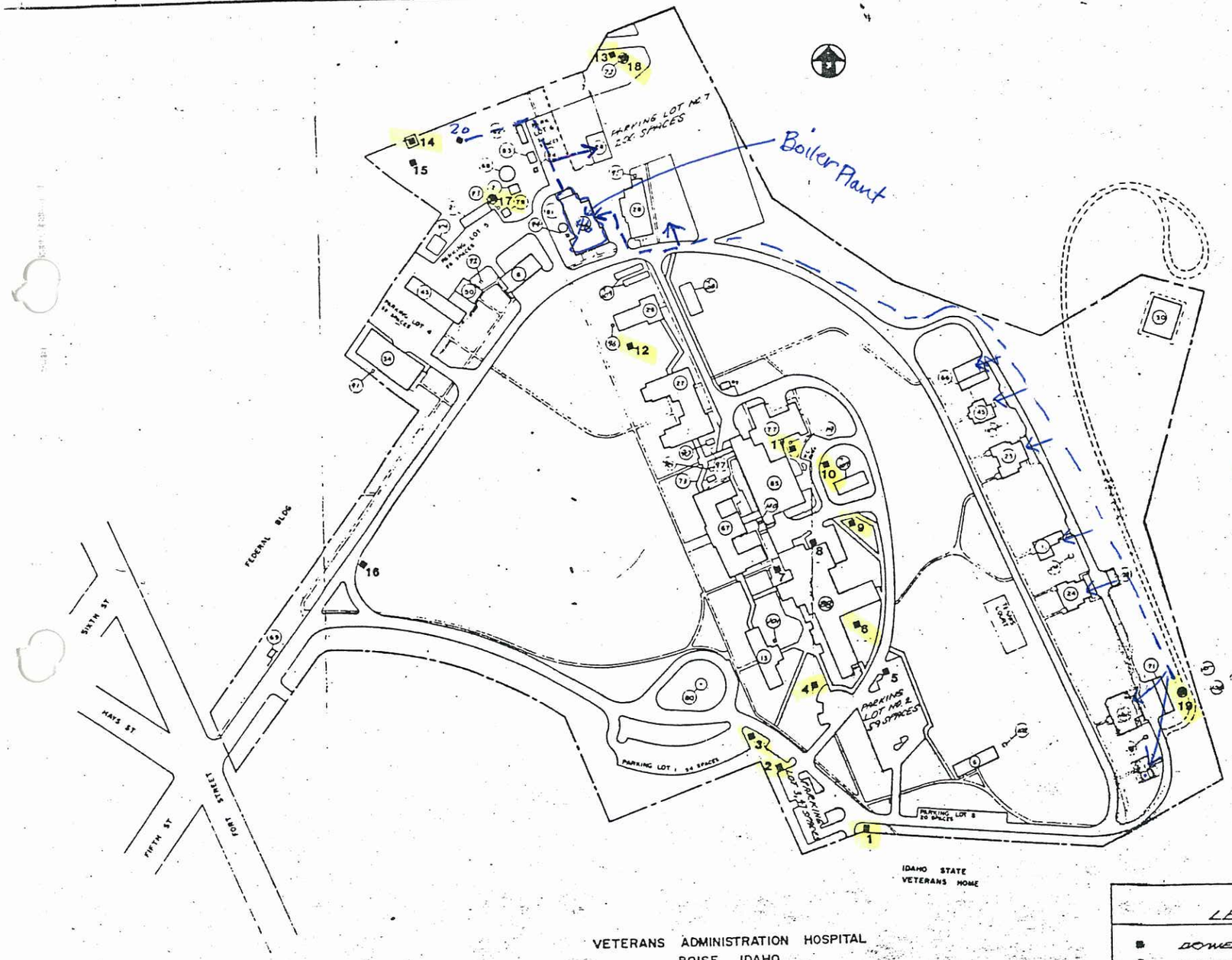
Straight ahead past FED Bldg - ~~[illegible]~~ 3 bldgs. 3rd Bldng (#50) - Some parking next bldg down frame ~~bldg~~ building - cream.

Parma Pump?

EXAM DATE: Thurs 11/18 8:30

require data logger?

3N2E 2



VETERANS ADMINISTRATION HOSPITAL
BOISE IDAHO

WELL NO.	DESCRIPTION
1	DRYWELL, 8'-0" LONG X 8'-0" DEEP, ACTIVE
2	DRYWELL, 8'-0" LONG X 8'-0" DEEP, ACTIVE
3	DRYWELL, 8'-0" LONG X 8'-0" DEEP, ACTIVE
4	DRYWELL, 8'-0" LONG X 8'-0" DEEP, ACTIVE
5	DRYWELL, 2'-6" DIA. X 30'-0" DEEP PAVED OVER, INACTIVE
6	DRYWELL, 8'-0" LONG X 8'-0" DEEP, ACTIVE
7	DRYWELL, 2'-6" DIA. X 30'-0" DEEP PAVED OVER, INACTIVE
NEW	DRYWELL, 2'-6" DIA. X 30'-0" DEEP REMOVED BY BLDG 88 CONST., INACTIVE
9	DRYWELL, 2'-6" DIA. X 30'-0" DEEP ACTIVE
10	DRYWELL, 2'-6" DIA. X 30'-0" DEEP ACTIVE
11	DRYWELL, 2'-6" DIA. X 30'-0" DEEP ACTIVE
12	DRYWELL, 2'-6" DIA. X 30'-0" DEEP, ACTIVE
13	DRYWELL, 8'-0" LONG X 8'-0" DEEP ACTIVE
14	GEOTHERMAL INJECTION TEST WELL, 10" DIA. X 1839'-0" DEEP TEMPORARILY INACTIVE
15	NO INFORMATION AVAILABLE - Shallow runoff wells not permitted
16	NO INFORMATION AVAILABLE - Shallow runoff wells not permitted
17	PRODUCTION WELL, POTABLE WATER, 314'-0" DEEP, ACTIVE
18	PRODUCTION WELL POTABLE WATER, 950'-0" DEEP, ACTIVE
19	GEOTHERMAL PRODUCTION WELL 10" DIA. X 1668'-0" DEEP, TEMPORARILY INACTIVE

Shallow runoff wells not permitted

Hvy. runoff wells permitted

63-W-15 →

1931 & 9140 rights

63-9890 →

& 63-10339

63-5220
5221

63-10153 - 3rd. potable well

20 63-W-21 - 2nd geothermal injection

LEGEND

- DRYWELL
- PRODUCTION WELL
- INJECTION WELL

WELL LOCATIONS

3/27/86

219-S-A.
6-90

Permit No. 63-09890

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Staff Analysis Sheet
for
Beneficial Use Field Report

A. Prior to Conducting the Exam, the File Contains:

X Blank Field Report Form

X Copy of Permit

X Copies of any Amendments/Orders with Conditions of Approval

(2) X Well Inspection Form (If Needed)

___ Aerial Photo Required? ___ yes X no If yes: ___ copy attached

___ SRBA Attachment A Submitted to Adjudication Section

SRBA Claim Check Received _____(initial & date)

X N/A ___ Applicable, See Attachment A _____

X Copy of U.S.G.S. Quad FT BOISE RESERVE

X Check for Government Lots. If so, make a copy of government plat

X Check of P/D index 11-07-90 CH (initial & date)

Overlap X yes ___no If yes: NO copy of exam(s) attached? B/U proof due 8-91

Type of Overlap? ___ Add acres or uses to existing system

X Increase rate of flow or volume

___ Other P63-10339A additional geothermal Proof Filed

X Check of P/U index 11-07-90 CH (initial & date)

Overlap? X yes ___no If yes: ___ copy of water right(s) attached?

Type of Overlap? ___ Increase rate of flow or volume

___ Add P/D's

___ Increase number of acres within tracts

___ Other: AS above

___ Scheduling Letter Sent? _____(initial & date)

___ Appointment Made and Telephone Conversation Memo Attached

B. After Conducting the Exam, the File Contains:

___ Fully Completed and Signed Field Report Form

___ Photographs of Point of Diversion and Place of Use

___ Copy of SRBA Claim Verification Sheet / ___ Original Returned to Adjudication Section

C. Review and Processing:

Exam Completed _____(signature of examiner & date)

Exam Reviewed by Senior Water Resource Agent_____(initial & date)

Exam Reviewed by Manager of Regional Office _____(initial & date)

Exam Sent to State Office _____(initial & date)

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

RECEIVED
APR 23 1996
WATER RESOURCES
WESTERN REGION

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

April 22, 1996

Cindy Hodges
Idaho Department of Water Resources
Western Region
Statehouse Mail, Boise

Cindy,

Enclosed are some photocopies related to the monitoring at the Veterans Administration geothermal system. As you can see, I wrote to the VA on February 14 requesting data. I did not hear from anyone there so I called Dennis Johnson sometime in mid-March. He said they were working on it. I still had not heard from anyone as of last week so I called Larry Post on April 15. He told me that they had not been recording the data from the discharge graphs to the data forms but that he could do that for me. So..., that's what is happening with the VA's system. If you need anymore information for the water rights licensing, please call me. Thanks for your help.

Sincerely,

Kenneth Neely, Hydrogeologist
Ground Water Monitoring Section

enclosures

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

February 14, 1996

Veterans Administration
Attn. Larry Post
500 W. Fort
Boise, Idaho 83702

Larry:

In looking over the monitoring records for the VA geothermal wells, I noticed that the most recent data sheet I have is for May, 1994. Would you please send copies of the datasheets to me for the time period from June, 1994 to present? Thank you.

Sincerely,

Kenneth Neely, Hydrogeologist
Ground Water Monitoring Section

GEOTHERMAL
WELL DATA LOG

V. A. Geothermal Production Well
Remarks No water draw down readings as the tube is still broken.

Date m/d/y MAY 1994	Time 24 HR.	Totalizer Reading 293430	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	
1	SUN								
2	8:30AM	298478	300	164	162	BROKEN	H	Off	
3	"	302072	300	164	162		H	Off	
4	"	305668	150	164	162		L	Off	
5	"	309066	150	164	162		L	Off	
6									
7	SAT								
8	SUN								
9									
10									
11									
12									
13									
14	SAT								
15	SUN								
16	8:30AM	347994	160	164	162		L	Off	
17	"	350600	160	164	162		L	Off	
18	"	354075	300	164	162		H	Off	
19	"	357618	300	164	162		H	Off	
20									
21	SAT								
22	SUN								
23	8:30AM	370095	180	164	162		L	Off	
24	"	374312	180	164	162		L	Off	
25	"	378125	180	164	162		L	Off	
26									
27	"	386699	180	164	162		L	Off	
28	SAT								
29	SUN								
30	Memorial Day								
31	8:30AM	400366	180	164	162		L	Off	

VA FAX
389-7938

Idaho DWR
Department of Water Resources FAX 327-7866
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION
(208) 327-7855

106936
78
8341,008

GEOTHERMAL
WELL DATA LOG

RECEIVED
JUN 2 1994
Department of Water Resources

V. A. Geothermal Production Well
Remarks Copper line for doing "Draw Down" has a hole in it.

Date m/d/y APRIL 1994	Time 24 HR.	Totalizer Reading 168 197	Disch. (gpm)	Temp. (F°) Bldg. 46	Temp (F°) Bldg 107	Water Surface Elev. Above Bowls Bldg. 107	Product. Pump Operat. (HI/LOW)	Inject. Pump (ON/OFF)	
1	8:30AM	171964	140	164	162	Broken	L	Off	
2	SAT								
3	SUN								
4	8:30AM	182272	300	164	162		H	Off	
5	"	187487	300	164	162		H	Off	
6	"								
7	"	196345	300	164	162		H	Off	
8	"	292132	310	164	162		H	Off	
9	SAT								
10	SUN								
11	8:30AM	215972	300	164	162		H	Off	
12	"	219963	300	164	162		H	Off	
13	"	223814	300	164	162		H	Off	
14	"	227756	300	164	162		H	Off	
15	"	232574	300	164	162		H	Off	
16	SAT								
17	SUN								
18	8:30AM	242721	160	164	162		L	Off	
19	"	245768	160	164	162		L	Off	
20	"	249742	200	164	162		L	Off	
21	"	253792	200	164	162		L	Off	
22	"	257726	200	164	162		L	Off	
23	SAT								
24	SUN								
25	3 PM	278065	140	164	162		L	Off	
26									
27									
28	8 AM	282474	150	164	162		L	Off	
29	4 PM	287952	150	164	162		L	Off	
30		293430							
31									

125233
78
9,748,174

FAX 327-7866

Idaho DWR
Department of Water Resources
1301 N. Orchard, Boise, Idaho 83706

KENNETH W. NEELY
HYDROGEOLOGIST
GROUND-WATER MONITORING SECTION
(208) 327-7855

Form 219
6/92

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 63-9890

1. Owner: Veteran's Administration Phone No. _____

Current Address: _____

2. Accompanied by: Denis Johnson EXAM DATE : 11/18/93

Address: Arnie Harstad, Larry Post, Maint Mechanics Phone No. _____

Relationship to Permit Holder: Chief, Eng. Services

3. Source: groundwater tributary to _____

B. OVERLAP REVIEW

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

2. Other water rights with the same point of diversion: _____

C. DIVERSION AND DELIVERY SYSTEM

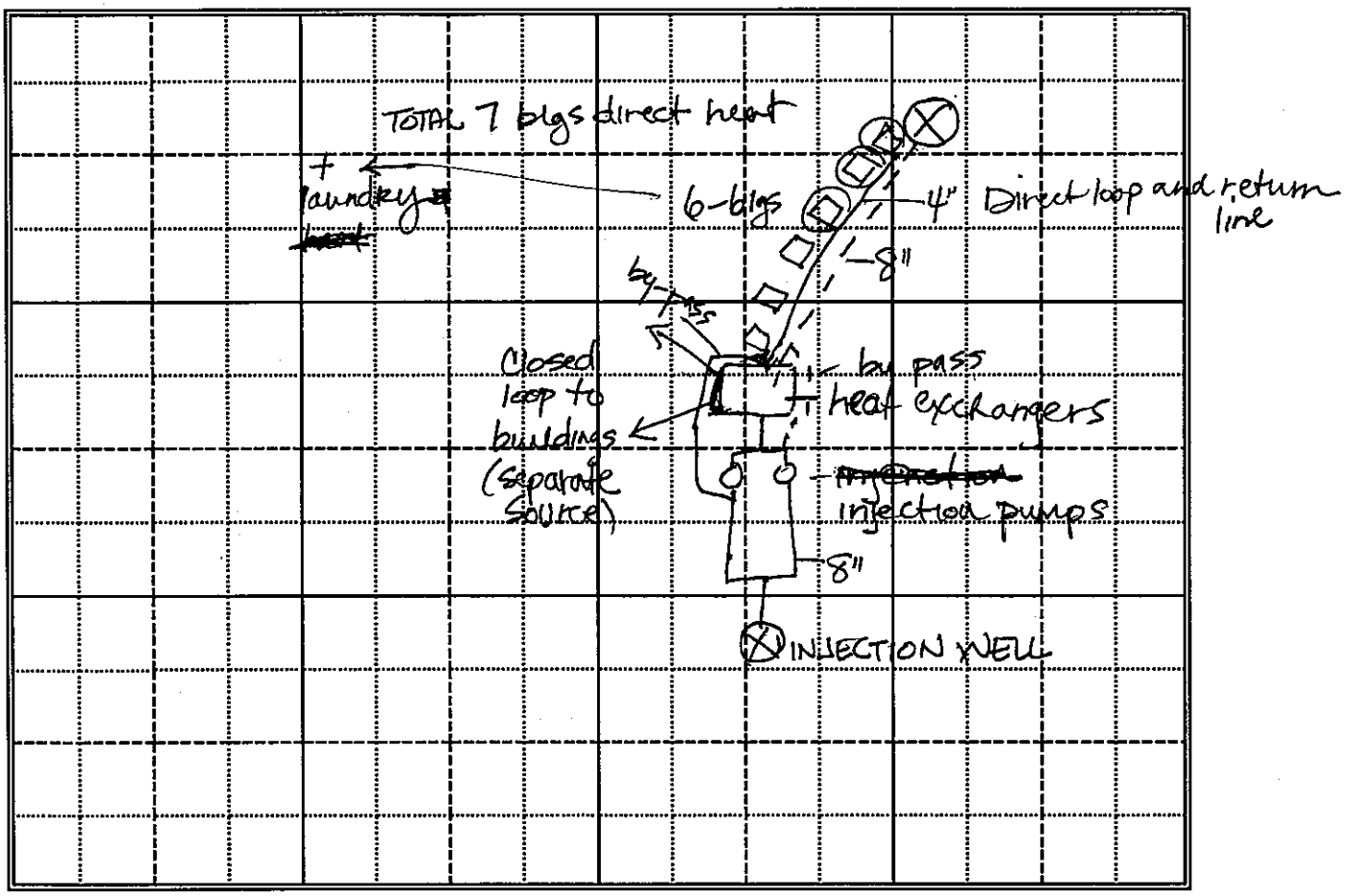
1. **Point(s) of Diversion:**

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks

2. **Place(s) of Use:** Indicate Method of Determination _____

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____.

____ Copy of USGS Quadrange Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4. (2-Speed motor)

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Production	US Elec	22.3/50	P08P111028	8R-1NRR	
				Floway	8" 87-01609
				4-Stage	

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

Injection

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
~~Sensor~~ Flowmeter	Sensor	Rosemount	1151DP	0941716		
Recorder	Graphic	HRC				

2. **Measurements:** Time of exam, flow ~200 gpm at heat exchangers
Bowls set 200' PL ~125' PSI = 23 at wellhead
Source T = 162° F

Use is for heat at VA Med Ctr Compound.

E. NARRATIVE/REMARKS/COMMENTS

Geothermal production well to heat exchangers to injection system. Geothermal flow is used to heat cold water which then makes closed-loop (4" lines) passes through buildings. A small amount of diverted flow is drawn off prior to entering heat exchangers for heating 7 buildings on the direct line to the boiler plant. Each building has a small heat exchanger used to heat domestic hot water. None of the natural geothermal flow is consumed. All is re-injected.

The by-pass portion of flow cannot be measured. Flow from direct heat by-passes ht exchangers. In addition, any flow not req'd to maintain closed-loop temps is by-passed. Pumps runs continuosly on low speed. As temps drop, by-pass valve is closed. When flow no longer enough, pump switched to high speed, by-pass valve used to regulate. During extreme cold, injection pump kicks on (high-speed, no bypass except upper bldgs) and acts as a booster to increase flows at heat exchanger. Injection rate is limiting factor in diversions. (In event of pump failure, boiler system is staffed and all buildings served through 4" loop lines. Upper buildings served via pump and 4" collection line — used as 2-way system) *Note — backflow devices present? *

Pumps run in Summer for hot domestic water heating only. Jan 1993

See Ken Neely for flow records Max ~ 360 gpm injection rate ~ 500 gpm 130-146° Downhill pressure 40 psi

Have conditions of permit approval been met? ___ yes ___ no

F. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) = _____

$V_{D.R.}$ = [Diversion Rate (cfs)] x (Days in Irrigation Season) x 1.9835 = _____

V = Smaller of $V_{I.R.}$ and $V_{D.R.}$ = _____

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	Period of Use To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
		Totals:		

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ___ None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____ SEAL

219-S-A.
5-96

63-9890
Permit No.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Staff Analysis Sheet
Beneficial Use Field Report

A. Prior to Conducting the Exam, the File Contains:

X Blank Field Report Form

X Copy of Permit

X Copy of Proof of Beneficial Use

X Copies of any Amendments/Orders with Conditions of Approval

X Well Inspection Form (If Needed)

X Aerial Photo Required? X yes ___ no If yes: X copy attached

X SRBA Claim Required (required if proof filed by 11-19-1987)

X Yes ___ No If yes: X claim filed? (check AJ5, AJQ1, AJQ4)

X Copy of U.S.G.S. Quad

X Check for Government Lots. If so, make a copy of government plat

X Check of P/D index DAN 8-11-2001 (initial & date)

Overlap X yes ___ no If yes: ___ copy of exam(s) attached?*

Type of Overlap: X Same source ___ Other source

X Check of P/U index DAN 8-11-2001 (initial & date)

Overlap? X yes ___ no If yes: X copy of water right(s) attached?*

Type of Overlap: X Same land, same source

___ Same land, other source

___ Other land &/or other uses

*copies attached only if needed for analysis

N/A Irrigation from groundwater (all basins):

Surface water currently or previously used ___ Yes ___ No

If yes: identify water source, water right, and explain current or previous use.

N/A Scheduling Letter Sent? _____ (initial & date)

X Appointment Made and Telephone Conversation Memo Attached

B. After Conducting the Exam, the File Contains:

X Fully Completed and Signed Field Report Form

X Photographs of Point of Diversion and Place of Use

C. Review and Processing:

Exam Completed David A. Nelson FOR Cindy Hodges 11-18-93 (signature of examiner & date)

Exam Sent to State Office 10-1-01 dt (initial & date)

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE STATE OF IDAHO

IN THE MATTER OF THE BOISE FRONT LOW TEMPERATURE GEOTHERMAL RESOURCE GROUND WATER MANAGEMENT AREA	**FINAL ORDER EXTENDING MORATORIUM**

WHEREAS, on June 15, 1987, the Director of the Idaho Department of Water Resources (IDWR) designated the Boise Front Low Temperature Geothermal Resource Ground Water Management Area in Ada County, Idaho, due to reported declines in aquifer water levels and water pressure; and

WHEREAS, on June 11, 1988, IDWR issued an order establishing a five (5) year moratorium to prevent further development or additional use of the low temperature geothermal water resource (resource); and

WHEREAS, on July 7, 1998, IDWR advised the users of the resource that IDWR was reviewing the need for the moratorium and whether it should be modified or extended. IDWR requested written comments on the nature of the action IDWR should take in connection with the expiring moratorium; and

WHEREAS, six (6) parties submitted written comment to IDWR. All major users supported extending the moratorium for an additional five (5) years.

NOW THEREFORE, pursuant to Section 42-1805(7), Idaho Code, and IDAPA Rule 37.03.08055 (Water Appropriation Rule 55), IT IS HEREBY ORDERED that:

(1) The order dated June 10, 1988 which established a moratorium on further development and additional use of the low temperature geothermal water resource in the Boise Front Ground Water Management area is extended.

(2) The provisions of this order are effective for five (5) years from the date issued unless rescinded or modified by order of a court of competent jurisdiction or unless rescinded or modified by order of the Director.

Dated this 1st day of September, 1998.

KARL J. DREHER
Director

February 12, 1990

VETERANS ADMNISTRATION MEDICAL CENTER
C/O JAMES A. GOFF
5TH & FORT ST.
BOISE, ID 837024598

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 63-09890

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The next step in the process of developing a water right is for the department to conduct a field examination to determine and confirm the use being made of the water.

If you have questions concerning this matter, please feel free to contact the WESTERN Regional Office in Boise at (208)334-2190.

Sincerely,

Rita Fleck
Secretary/Records Manager

c: IDWR - Region

MICROFILMED
FEB 23 1990

1/88

PROOF OF BENEFICIAL USE

ANALYSIS SHEET

Permit No. 63-9890 Date: 2-28-90

General Considerations:
- Y Name same as permit
- Y Signature the same as permit holder
- N Address change _____ If yes, prepare a data entry
- Y Proof received timely
- _____ Reinstated

Source of Water:
- _____ Surface water
- Y Groundwater
  - Y 1. well log in file
  - _____ 2. drilling permit
    - N/A A. amount of drilling fee paid for proposed uses

Extent of Use and Rate of Diversion:
- Y Rate of diversion appropriate for uses
  - Y Is rate or volume and fee appropriate?
- Y Has permit holder indicated when water was first put to a beneficial use?

Measuring Device:
- Y Is a measuring device or access port required?
- Y Has one been installed?
- N/A Waiver or modification of measuring device requested

Remarks: Proof acceptable

N/A Priority Calculation:

Date proof received	_____	_____
Date proof due	_____	-_____
No. of days late		=_____
Priority date	_____	+_____
NEW PRIORITY DATE	_____	=_____

SEND FILES TO DATA ENTRY AND THEN TO MICROFILM

Medical Center

500 West Fort Street
Boise ID 83702

Veterans Administration

November 14, 1989

In Reply Refer To: 531/138

Permit Section
Department of Water Resources
1301 North Orchard Street
Statehouse Mail
Boise, Idaho 83720

RECEIVED
NOV 28 1989
Department of Water Resources

SUBJ: Proof of Beneficial Use

Gentlemen:

The enclosed Proof of Beneficial use is submitted in compliance with the conditions of approval for Permit No. 63-09890.

We are filing the Proof of Beneficial Use as a matter of comity, and wish to preserve our right to assert, if necessary, the Supremacy Clause of the United States Constitution (Article IV, Clause 2), U.S. Constitution, March 4, 1789, pursuant to the Reserved Rights Doctrine.

If you have any questions, please contact Denis Johnson, Chief, Engineering Service at 338-7270.

Sincerely yours,

James A. Goff, FACHE
Medical Center Director

Enclosure

MICROFILMED
FEB 20 1990

138667

September 30, 1989

VETERANS ADMNISTRATION MEDICAL CENTER
C/O JAMES A. GOFF
5TH & FORT ST.
BOISE, ID 837024598

PROOF DUE NOTICE

RE: PERMIT NO. 63-09890

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before December 1, 1989. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the lapse notice, the permit will no longer be of any force nor effect.

SINCERELY,

Rita Fleck
Secretary/Records Manager

Enclosures

MICROFILMED
FEB 23 1990

63-9890

June 21, 1988

CERTIFIED MAIL

James Goff
V.A. Medical Center
5th & Fort Streets
Boise, ID 83702

Dear Mr. Goff:

RE: BOISE FRONT - ORDER ESTABLISHING A MORATORIUM

Enclosed is an order establishing a moratorium in connection with further development of the warm water aquifer in the Boise Front Low Temperature Geothermal Ground Water Management Area.

The moratorium has been ordered pursuant to the authority of Section 42-1805(7), Idaho Code, and Rule 7 of the Department's Water Appropriation Rules and Regulations.

Objections to entry of the order shall be considered by the department under the provisions of the department's adopted Rules of Practice and Procedure and applicable law. Objections must be filed within fifteen (15) days of the date of this letter.

Sincerely,

NORMAN C. YOUNG
Administrator

Encl: 1

MICROFILMED
FEB 23 1990

November 30, 1987

James A. Goff
Veterans Admin. Medical Center
500 West Fort Street
Boise, ID 83702-4598

RE: Permit No. 63-9890 - REQUEST FOR EXTENSION OF TIME

Dear Mr. Goff:

Enclosed is a copy of the approved request for extension of time which you submitted in connection with the above referenced permit. The proof of beneficial use due date has been extended to December 1, 1989, as requested.

Please note the condition of approval on the approved extension which requires the use of the injection wells authorized by injection well permits 63-W-21 and/or 63-W-15 for the disposal of water produced under water right permit 63-9890.

Since you plan to use the injection wells as required by the condition, there should be no net difference in your planned operation.

As you know, on June 15, 1987, the department designated the Boise Front Low Temperature Geothermal Resource Ground Water Management Area and on July 29, 1987, issued an order which required monitoring and record keeping relative to the use of water from the low temperature geothermal source. As an update to department activity in this regard, the department is presently reviewing the responses to the monitoring order and the adequacy of the existing monitoring facilities of the major users. The department is in the process of identifying the smaller users of the low temperature geothermal resource and the feasibility of requiring similar monitoring information from them.

The department is willing to meet with you or your staff upon completion of our monitoring evaluation if such a meeting would be beneficial to you.

RECEIVED
FEB 29 1988

Please feel free to contact this office if you have questions.

Sincerely,

L. GLEN SAXTON
Chief, Operations Bureau

c: W. Region

MICROFILMED
FEB 29 1988

STAFF REVIEW SHEET - EXTENSION OF TIME

Permit No. 63-9890 Reviewed by [illegible] Date 11-19-1987

BASIC INFORMATION

Y Date stamp received
Y Extension received timely
(not prior to 6 month before proof due date or after reinstatement period)
Y Fee received and receipted
Y Name and signature same as permit
N Address change (indicate on coding sheet)

BASIS FOR EXTENSION REQUEST

Y Has adequate work been completed to demonstrate due diligence?
Y Has the cost incurred been adequate to demonstrate an intent to complete the project?
N Has the permit been involved in litigation?
a. Swan Falls _____ Dismissed from Swan Falls _____
Other _____ Identify _____
b. Is supporting documentation needed to complete the file? _____
Requested _____
c. Calculate the period of delay

Date litigation completed _____

Date litigation began - _____

Total period of delay = _____

Present proof due date + _____

NEW PROOF DUE DATE = _____

N Is delay by a government agency?
Is supporting documentation needed to complete the file? _____
Requested? _____

ACTION TAKEN - Recommend approval for 2 yrs. based on due diligence

Special conditions or remarks:

N/A Reinstate

Date extention received _____ = _____

Proof due date _____ = - _____

No. of days late _____ = _____

Priority date _____ = + _____

ADJUSTED PRIORITY DATE _____ = _____

Y Prepare coding sheet
Y Change rolodex cardf

Medical Center
500 West Fort Street
Boise ID 83702

SUPPLY SERVICE
RECEIVED
NOV 17 2 53 PM '87
NOV 16 1987

Veterans Administration

November 9, 1987

Department of Water Resources

In Reply Refer To: 531-138

State of Idaho
Department of Water Resources
Statehouse
Boise, Idaho 83720

SUBJECT: Permit No. 63-9890

The enclosed request for time extension is submitted in compliance with the condition of approval for above referenced permit. We are filing this extension as a matter of comity, and wish to preserve our right to assert, if necessary, the Supremacy Clause of the United States Constitution (Article IV, Clause 2, U.S. Constitution, March 4, 1987) pursuant to the Reserved Rights Doctrine.

The construction is proceeding on schedule and we anticipate that we will be able to submit Proof of Beneficial Use in a timely manner.

Should you have any questions regarding the time extension request please contact me at 338-7200. Your assistance in processing the time extension is appreciated.

JAMES A. GOFF
Medical Center Director

Enclosure

MICROFILMED
FEB 29 1988

VA MEDICAL CENTER
500 W. FORT STREET
BOISE, ID 83702-4598

November 9, 1987

RECEIVED
NOV 16 1987
Department of Water Resources

631-138

State of Idaho
Department of Water Resources
Statehouse
Boise, Idaho 83720

SUBJECT: Permit No. 63-9890

The enclosed request for time extension is submitted in compliance with the condition of approval for above referenced permit. We are filing this extension as a matter of comity, and wish to preserve our right to assert, if necessary, the Supremacy Clause of the United States Constitution (Article IV, Clause 2, U.S. Constitution, March 4, 1987) pursuant to the Reserved Rights Doctrine.

The construction is proceeding on schedule and we anticipate that we will be able to submit Proof of Beneficial Use in a timely manner.

Should you have any questions regarding the time extension request please contact me at 338-7200. Your assistance in processing the time extension is appreciated.

JAMES A. GOFF
Medical Center Director

Enclosure

MICROFILMED
FEB 29 1988

138966

CERTIFIED MAIL
September 30, 1987

James A. Goff
Veterans Administration Medical Ctr.
500 W. Fort St.
Boise, ID 83702-4598

PROOF DUE NOTICE

RE: Permit No. 63-9890

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before December 1, 1987. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a completed field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this Department on or before the above described proof due date, or the permit will no longer be of any force nor effect.

Sincerely,

RITA FLECK
Secretary/Records Manager

Enclosures

MICROFILMED
FEB 29 1988

63-9890

State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

CECIL D. ANDRUS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

August 3, 1987

James A. Goff
Medical Center Director
Veterans Administration Medical Center
500 W. Fort Street
Boise, ID 83702-4598

RE: Monitoring of the Boise Geothermal Groundwater System

Dear Mr. Goff:

The enclosed order is being sent to you because of the Department's concern about the Boise Geothermal System. By collecting uniform and consistent data from the major users, a better understanding of the System will be known and management alternatives of the system can more properly be considered.

You and the other major users are required to develop a program for accurate monitoring and record keeping. The Department is willing to meet with you to discuss possible equipment selection and questions you may have.

If you have questions or comments, please contact John Carlson (phone 334-4406) of this Department.

Sincerely,

John E Reed for

L. GLEN SAXTON, Chief
Operations Bureau

LGS:ldt(GP5-1.60)

Enclosure

CC: IDWR - Western Region

MICROFILMED
FEB 29 1988

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF A COMPREHENSIVE MONITORING PROGRAM IN THE BOISE FRONT LOW TEMPERATURE GEOTHERMAL RESOURCE GROUND WATER MANAGEMENT AREA	ORDER REQUIRING MONITORING AND RECORD KEEPING

This matter having come before the Director of the Department of Water Resources (Department) as a result of reported water level declines of the Boise Front Low Temperature Geothermal Resource Ground Water Management Area, and the need for a comprehensive monitoring system, the Director finds, concludes, and orders as follows:

FINDINGS OF FACT

1. The Director of the Department has the responsibility to administer the ground water basins of the State to protect prior rights yet allow full economic development.

2. The Boise Front Low Temperature Geothermal Resource Ground Water Management Area was designated by the Director on June 15, 1987.

3. A preliminary study performed by Boise State University on several wells in a portion of the management area indicates that the resource may be limited and that significant declines in water levels in pumped and monitored wells within the system are occurring.

MICROFILMED

FEB 29 1988

CONCLUSIONS OF LAW

1. Section 42-226, Idaho Code, declares all ground waters to be the property of the State, and charges the State with supervising the appropriation and allotment of the same so that early appropriation of underground water are protected in the maintenance of reasonable groundwater pumping levels.

2. Section 42-233b, Idaho Code, authorizes the Director of the Department of Water Resources to require all water right holders within a designated ground water management area to report withdrawals and other necessary information for the purpose of assisting him in determining water usage and available ground water supplies.

ORDER

NOW, THEREFORE, IT IS HEREBY ORDERED that the Veterans Administration Medical Center shall install and maintain equipment and forward to the Department on a monthly basis the following information:

1. Continuous withdrawal rate and withdrawal volume amounts.

2. Continuous casing pressure and/or drawdown measurements on production and injection wells.

3. Temperature of withdrawn and injected fluids on a daily basis.

IT IS FURTHER ORDERED that within thirty (30) days of this Order Veterans Administration Medical Center shall submit a written proposal to the Department for review and approval describing

MICROFILMED
FEB 29 1988

a monitoring program and equipment to be used and/or installed to comply with this order.

Dated this 29TH day of July, 1987.

Norman C Young

NORMAN C. YOUNG
Acting Director

MICROFILMED
FEB 29 1988

Form 204-p
6/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

COMMENCEMENT OF WORKS

Permit No. 63-9890
Name(s) of Permit Holder(s): Veterans Administration Medical Center
Post Office Address: 5th + Fort

MICROFILMED

☑ I hereby certify that construction of diversion works for the above referenced permit began on August 12, 1983 (date). I understand that I must continue to develop the water system with due diligence to maintain a valid permit.

FEB 23 1990

☐ I hereby certify that construction of diverting works on the above referenced project has not yet begun due to the following reason beyond my control*:

J. Holland, Chief Engineer
for VA Medical Center

*Note: A financing difficulty is not an acceptable reason.

9/21/83
Date

Signature of Permit Holder

Form 204-p
6/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

COMMENCEMENT OF WORKS

Permit No. 63-9890
Name(s) of Permit Holder(s): Veterans Administration Medical Center
Post Office Address: 500 W. Fort St., Boise, ID 83702-4598
Tel. No. (208) 336-5100

MICROFILMED

☒ I hereby certify that construction of diversion works for the above referenced permit began on August 12, 1983 (date). I understand that I must continue to develop the water system with due diligence to maintain a valid permit.

FEB 23 1990

☐ I hereby certify that construction of diverting works on the above referenced project has not yet begun due to the following reason beyond my control*:

*Note: A financing difficulty is not an acceptable reason.

12/2/83
Date

Signature of Permit Holder

PLACE
STAMP
HERE

RECEIVED

FEB 23 1990

DEPARTMENT OF WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

PLACE
STAMP
HERE

RECEIVED

DEC 5 1983

Department of Water Resources

RECEIVED

FEB 23 1990

DEPARTMENT OF WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

Medical Center
5th and Fort Streets
Boise ID, 83702

RECEIVED
OCT 28 1983
Department of Water Resources

Veterans Administration

October 24, 1983

In Reply Refer To: 531/00

John E. Beal, Supervisor
Construction Permits Section
Department of Water Resources State Office
State of Idaho
450 W. State St.
Boise, ID 83720

Dear Mr. Beal:

This letter confirms my previous verbal comments that the logs from the VA Medical Center geothermal wells are available to the public upon request. You may feel free to release them.

I hope this adequately responds to your letter. Thank you for your help throughout this process.

Sincerely,

JAMES A. GOFF
Medical Center Director

CC: Anderson & Kelly, Inc.

MICROFILMED
JAN 30 1984

CONVERSATION MEMORANDU.

DATE 10/26/83

FILE VA Geothermal

NAME OF PARTY Paul Castelin

EMPLOYEE John Carlson

RE: VA Production well flow-step Tested 1200 GPM on Oct 12, 83 over a one day period no effect felt in injection well. 160°F flowed at surface after test at 1800 gpm cooled it stod a 11' below land surface. Transmisivity @ 40 to 1000 gpd per ft. 1100 gpm should supply ample heat for VA at 160°F originally estimated at 1700 gpm. will Test injection well Tomorrow

MICR... JAN 30 ...

State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

October 19, 1983

James A. Goff
VA Medical Center
5th & Fort Streets
Boise, ID 83702

RE: 63-W-15
63-9890

Dear Mr. Goff:

I want to take this opportunity to thank you and personnel at Anderson and Kelly Inc. for keeping the Department informed during construction and testing of your two new wells.

I have recently had a request for the well log for your production well. The enclosed letter to Paul Castelin in item 7 indicates that we will hold the well logs confidential for one year. I am not sure we have the legal authority to do this and am requesting that you authorize us to make the log available to the public. If you feel any of the information or documents in our files should remain confidential, please let me know.

Once again, thank you for your cooperation.

Sincerely,

John E Beal

JOHN E. BEAL, Supervisor
Construction Permits Section

JEB:ldt

Enclosure

CC: Anderson & Kelly Inc.

RECEIVED
JAN 30 1984

Memo

To: John B. 10/19/83

From: John C.

RE: 63-W-15 & 63-9890

I really don't have too much to comment on in comparing the two logs, Paul had pretty much summarized the lithology. the production well at @ 820' while the injection well doesn't encounter rhyolite even at 1040'.

RECEIVED
JAN 30 1984

Memo

To: John B. 10/12/83

From: John C.

RE: 63-W-15, 63-9890

the well logs pretty much reflect Paul C. communication and conversations with the dept. The change in lithology between the production well & injection well is (the injection well does not encounter Rhyolite @ 1840', while the production well encounters rhyolite @ 820')

the basic lithology is very similar though, alternating sand and basalt + clay layers. However due to the lack of Rhyolites in the injection well which is further out from the Boiling point, there is a good chance of a fault separates the two wells.

To know for certain we have the injection fluid being returned to the same aquifer from which it was removed, or the quality of the receiving aquifer will not be degraded, we need the chemistry, pressure Temperatures etc. Also as faults appear to control or are responsible for the geothermal system, injection nearby may change the zone of influence from a radial type of influence to a linear one. The Only way at this point to know for certain is to inject and monitor. Also injection fluids could migrate up the fault to degrade shallower aquifers.

The well bore size on the log is the same as the casing dia in place. Do we need to clarify. No indication of seal depth on injection well log. We may want to reflect the information on sealing depth from Paul info to driller log.

RECEIVED
JAN 30 1987

Form 238-7
82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

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.

OCT 11 1983

1. WELL OWNER

Name Veterans Administration

Address Boise, Idaho

Owner's Permit No. 63-9890

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☒ Other Geothermal production (specify type)

4. METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness		Diameter		From		To	
.250	inches	16	inches	+6	feet	140	feet
.337	inches	12	inches	+2	feet	802	feet
.250	inches	8	inches	780	feet	1500	feet
	inches		inches		feet		feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☒ Yes ☐ No
Perforated? ☒ Yes ☐ No
How perforated? ☒ Factory ☐ Knife ☐ Torch
Size of perforation 1/8 inches by 2½ inches

Number		From		To	
6400	perforations	1100	feet	1500	feet
	perforations		feet		feet
	perforations		feet		feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name
Type Model No.
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel
Placed from feet to feet
Surface seal depth 802 Material used in seal: ☒ Cement grout ☐ Bentonite ☐ Puddling clay ☐
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☒ Cemented between strata
Describe access port 2" coupling

7. WATER LEVEL

Static water level 6 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow –
Artesian closed-in pressure – p.s.i.
Controlled by: ☒ Valve ☐ Cap ☐ Plug
Temperature – °F. Quality Good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped
Approx. 700	540'	6¼

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8 PC.	0	6	Topsoil		X
16	6	20	Topsoil		X
16	20	65	Coarse SS Yellow	X	
16	65	140	Med Grain SS Tan & Yellow	X	
12	140	240	Siltstone - Drk Gray		X
	240	255	Clay Gray		X
	255	445	Med SS Gray Clay Drk Gray	?	
	455	495	Siltstone Blue-gray		X
	495	510	Sand Gray	?	
	510	608	Altered Basalt Gray		X
	608	622	Claystone Drk Gray		X
	622	662	Basalt Black	?	
	662	682	Clay Drk Gray		X
	682	720	Basalt Hard Black	?	
12	720	745	Clay Drk Gray w/sd		X
8	745	820	Sand Med & Coarse Gray	?	
8	820	970	Rhyolite Gray to Lavender	?	
8	970	1345	Rhyolite Tuff White to Gray	?	
8	1345	1380	Rhyolite Tuff White Glassy	?	
8	1380	1666	Rhyolite Tuff Gray	?	

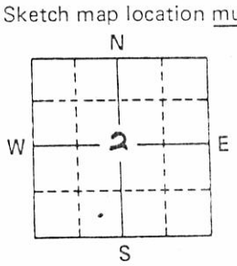
CONFIDENTIAL
~~Do not release until Oct 11, 1984~~
Released by V.A. 10/24/83 gm

10.

Work started 8-22-83 finished 9-12-83

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name

Lot No. Block No.

JAN 30 1984

County

¼ SW ¼ Sec. 2 T. 3N N/S, R. 2E E/W.

11. DRILLERS CERTIFICATION

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

Firm Name Materi Exploration, Inc. Firm No. 429

Address Box 500 Upton, WY 82730 Date 10-3-83

Signed by (Firm Official)

and

(Operator)

238-7
32

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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.

USE TYPEWRITER OR BALLPOINT PEN

RECEIVED
OCT 11 1983
Department of Water Resources

WELL OWNER

Name Veterans Administration

Address Boise, Idaho

Owner's Permit No. 63-W-15

NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☒ Other Injection test (specify type)

METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
.25 inches	10 inches	+ 1 feet	130 feet
.272 inches	7 inches	+ 2 feet	1480 feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☒ Torch
Size of perforation 1/8 inches by 12 inches

Number	From	To
800 perforations	1480 feet	1280 feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name
Type Model No.
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel
Placed from feet to feet
Surface seal depth 22 Material used in seal: ☒ Cement grout
☐ Bentonite ☐ Puddling clay ☐
Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☒ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port 3/4" Coupling

7. WATER LEVEL

Static water level – feet below land surface.
Flowing? ☒ Yes ☐ No G.P.M. flow No test
Artesian closed-in pressure – p.s.i.
Controlled by: ☒ Valve ☐ Cap ☐ Plug
Temperature – °F. Quality Good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped
Approx. 500	–	1½

9. LITHOLOGIC LOG

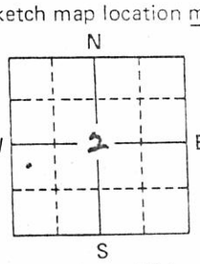
Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	24	Sandy Topsoil		X
10	24	25	Cemented Gravel		X
10	35	58	Sand & Gravel	X	
10	58	70	Muddy Sand & Gravel	X	
10	70	79	Cemented Sand	X	
10	79	84	Sandy Blue Clay		X
10	84	116	Cemented Blue Sand		X
10	116	128	Blue Sand	X	
10	128	132	Blue Clay		X
7	132	140	Sand Dark Black	X	
	140	208	Clay Dark Gray		X
	208	355	Silt Gray		X
	355	385	Sand & Silt Dark Gray	?	
	385	402	Clay Dark Gray		X
	402	434	Fine Sand Gray	?	
	434	547	Clay & Sandy Clay - Gray		X
	547	733	Basalt & Altered Basalt	?	
	733	793	Sand-White	?	
	793	822	Basalt Brn to Brn Gray	?	
	822	884	Sandy Clay		X
	884	1088	Basalt Altered Clay	?	
	1088	1129	Sand & Sandy Clay	?	
	1129	1255	Basalt Gray	?	
	1255	1271	Clay -Green		X
	1271	1352	Sand Green Sand Clay	?	
	1352	1358	Red-Brn Sandy Clay		X
	1358	1412	Basalt	?	
7	1412	1424	Red & Green Clay		X
9 7/8	1424	1823	~~Basalt~~ Volcanics DARK	?	
	1823	1834	Clay Green & Red Brn		X
	1834	1840	Sand Red-Brn	?	
			Released by VA 10/24/83		

10.

Work started 9-20-83 finished 9-29-83

5. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name

Lot No. Block No.

County ADA

NW ¼ SW ¼ Sec. 2 T. 3N N/S R. 2E E/W.

11. DRILLERS CERTIFICATION

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

Firm Name Materi Exploration, Inc. Firm No. 429
Address Box 500 Upton, WY 82730 Date 10-3-83
Signed by (Firm Official)
and
(Operator)

FILMED
JAN 30 1984

MEMORANDUM

TO: Files 63-W-15 & 63-9890
FROM: John Carlson
DATE: September 26, 1983
SUBJ: 63-W-15 (VA Medical Center)

Paul Castelin was in for approval of casing schedule.

Production Well

From John Beal's note to file 9/12/83, production hole cased and cemented to 820'±. 8" casing hung to 1300'±. Total Depth = 1660'±. No formal logs submitted as of this date 9/26/83.

Injection Well

Letter sent 9/14/83 on 63-W-15. Approval indicated. Approval of injection only after review of lithology encountered.

~~Surface Casing~~

Submitted lithology and casing schedule for injection well. Surface casing - 7" set and cemented to surface from 1220'. Conductor (10") - 130 to surface. Perforated casing or screen Hung to 1472'.

Stratagraphic unit from 1100' to @ 1300' appears to contain substantial amounts of clay. This unit or units of clay, through which the casing will be cemented, should contain injected fluids if injection pressures are not too great. Approval letter limits injection pressures to 100 psi.

Also see Jack Kelly's letter and map dated 8/11/83. Map indicates VA production well is on upside of fault which runs north-northwest. Injection well is on downside of fault and down gradient.

As the lithology of VA injection well and Capitol Mall #2 CM#2 production well do not correspond with depth, Paul feels there is a good possibility of a fault between the two. Also, as CM#2 is down gradient from VA injection well, there is a chance of temperature interference.

4:00 p.m. - Paul Castelin requested immediate approval as they were in the process of setting casing. 'Norm requested he return at 5:00 p.m. giving us a chance to review proposal.

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JAN 30 1987

Distance between two wells @ 2,000'.
Legal - Section 2, T3N, R2E, B.M. - Injection Well NW¼SW¼; some question of this, could be over section line into NE¼SE¼ Section 3 - production well SE¼SW¼ Section 2.

Norm gave verbal approval with the understanding that the well is subject to being shut down or deepened if interference, leakage into upper cold water aquifers causes degradation, monitoring system shows adverse affects on any prior wells in the area. Because of the highly fractured system, injection of fluids at one level does not guarantee it will stay at that level; also injection into an artesian system ~~which will~~ transmit pressure changes over a larger area. The Department definitely has concerns but only close monitoring of the system will show its limitations.

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JAN 30 1981

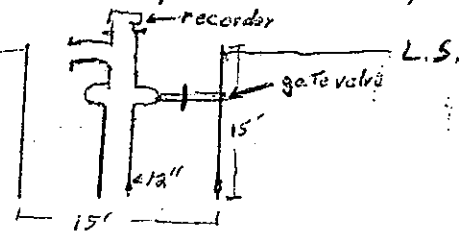
Memo

To File: VA Wells John B. 10/3/83

From: John Carlson.

Production Well

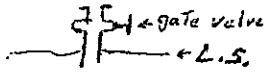
15' dia. culvert sunk about 15' surrounding well head. casing protrudes a couple of feet above land surface. open on top with recorder monitoring water level, discharge p horizontal pointed E, NE, static water level within 15' to 20' surface. located behind row and string of garages on NE end of property.



Injection Well.

@ 8" casing protrudes 1' above land surface with a gate valve attached. well is artesian flowing with unknown head. no pressure gauge or monitoring equipment on site.

located on west end of VA Property, outside of fence behind Federa reserve park.



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JAN 30 1987

ANDERSON & KELLY, INC.
CONSULTANTS IN ENGINEERING AND GEOLOGY
6700 EMERALD STREET BOISE, IDAHO 83704
(208) 375-9220

August 11, 1983

Mr. James A. Goff, Director
V.A. Medical Center
Boise, ID 83702

Dear Mr. Goff:

This letter will summarize our discussion in conference with you and other members of the Medical Center staff concerning the future disposal of water from the geothermal heating system. The enclosed aerial photograph, together with the transparent overlay, shows the various existing wells in the area.

The four Boise Geothermal Ltd. (BGL) wells, the BLM well, and the two State wells (CM-1 and CM-2) previously were used to determine the magnitude and direction of the ground-water gradient in the geothermal aquifer system. This is shown by the arrow pointing in the down gradient direction. You can see that the hot water essentially flows from the BGL wells toward the State wells. You will also note that the supply well of the State system (CM-2) is down gradient of the injection well of the (CM-1). This is not the preferred orientation of injection and supply wells but, due to other circumstances, it was necessary in the case of the State system. It is possible for the State system to operate in this manner because the two wells are several hundred feet apart and the cooler water injected at CM-1 passes "downstream" before being brought into the area of influence caused by pumping CM-2.

Also shown on the overlay are three faults that have been identified by correlation of geologic logs of the various wells supplemented by surface geologic mapping. These are shown as straight lines with the letters U and D signifying the relative up-down movement on the fault. The significance of these faults is important with respect to the location of the existing supply wells, noting that they are all adjacent to the two closer spaced faults. In addition, the more northerly fault appears to be a boundary separating the Koch well from the other wells in the general area. This tentative conclusion is based on the lack of response of the Koch well to testing of the other wells.

JAN 30 1984

The overlay shows that the location of the VA supply well is well positioned to take advantage of the influence of the two faults previously mentioned. The overlay also shows that the entire VA property lies "upstream" of the State supply well (CM-2). This makes the location of an injection well extremely important for the VA project in order that disposal will not jeopardize the hot-water supply of the State well. In our recent meeting, we discussed two potential sites for injection from the VA system. One location on VA property is shown on the overlay. This site is further north than any existing geothermal well with the exception of the Koch well. A well at this site probably will be in the general geothermal aquifer utilized by the other supply wells. However, because it is further north than the other wells it is possible that injection at this site will not adversely affect the State supply well. Injection of cooler water at this site may move in the indicated direction of water movement and pass by CM-2 without being drawn into its area of influence, similar to the CM-1 injection. However, at this time, this scenario can only be considered a possibility, albeit the preferred one. In order to confirm this possibility it will be necessary to drill a test well and use it as an observation well during testing of the VA well in addition to performing other site specific test on the test injection well will be made, depending on its characteristics.

The second possible location of an injection well would be on the north side of the fault near the Koch well. An injection well in this area would be expected to be similar to the Koch well with respect to its apparent hydraulic isolation from the other existing geothermal wells. Injection of cooler fluids in this area would be expected to have little or no effect on down gradient supply wells, although it is probable that some effect would be noted at the Koch well. In as much as the hot water requirements at the Koch residence are expected to be of small magnitude and of only modest temperature, this potential impact probably could be mitigated to the satisfaction of all concerned.

During our meeting, we concluded that the preferred location of an injection well is on VA property. Consequently, we recommended that a test well be drilled at the site indicated to make appropriate studies and evaluations for future construction of the injection well itself.

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JAN 30 1987

If such investigations show that injection at that site are not technically feasible or compatible with other existing geothermal supply wells, we recommended that a site north of the previously mentioned fault be considered. This second alternative would require drilling on property not presently owned by the VA.

We are glad that we had the opportunity to discuss this with you in person and hope that this written summary covers the points mentioned in our meeting. If we can be of future assistance to you in understanding the implications and potential impacts on others, please do not hesitate to call at your convenience.

Sincerely,

ANDERSON & KELLY, INC.

Jack E. Kelly

JEK/sk

cc: John Austin, CH2M/Hill

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JAN 30 1987

BOL 3
BOL 2
BOL 1
CLOSED
INJECTION
TEST SITE

- Existing VA Production Well -

0 – 450 Sandstone / Silts & Clays
stringers

450-630 – Silts

630-720 – Basalt Some Altered

720-750 – Dark Gray Sandy Clay

750-820 – Sand stone Gray

820-970 – Gray to Lavender
Rhyolite

970-1375 – White & Gray Rhyolitic
tuff.

1375-TD 1666 – Gray Rhyolitic
tuff.

→ Water zones ?
Lost Cir – 1408'-1410' –

Air test only – [275 g.p.m.] ≈ 900 gpm.
80' draw down =

T & C (Threaded & Coupled)

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JAN 30 1987

CONVERSATION MEMORANDUM

DATE 9/12/83

FILE 63-9890
63-W-15

NAME OF PARTY Paul Castelin

EMPLOYEE Joh Beal

RE: Status of well(s)

Production Well

Well is complete they are now cleaning hole for testing Conductor at 140' - Cemted Surface (Productia) set at 820'± and cemted. 8" pipe is hung to 1300' ± . TD 1600'± We discussed litho logs - everything appears more than adequate. Formal logs etc will be submitted.

Waste Well

They plan to drill the well in A diffent 40 acres. Will subnit prospectus soon. Well will be similar to productin well but they hope to keep it shallower. (1300'±)

8/13 - well pumped - good flow at 170° F. (Well flows slightly when hot - When cooled down doesn't flow at this time).

RECEIVED
JAN 30 1987

CONVERSATION MEMORANDUM

DATE 8/29/83

FILE VA - Geothermal well.

NAME OF PARTY Paul Castelin

EMPLOYEE John Beal

RE: Status of Drilling

Conductor Pipe Set at 140' - cemented to surface.

Sandstone layer extended to 120'.

Drilled to 873' - Are now setting surface casing. SC to be set to 840' ±.

Mud temp out @ 870 was 108°F.

They doubt that much more depth will be necessary.

RECEIVED
JAN 30 1987

CONVERSATION MEMORANDUM

DATE 8/18/83

FILE VA

NAME OF PARTY Paul Czstelic 63-9890

EMPLOYEE J Beal

RE: They have received letter of approval. Paul is not sure they can live with condition 5 — They hope they will not have to case to 700'. I told him we could work with them but as he knew condition may warrent more casing.

They plan to begin drilling Monday. 8/22/ This is official notice of intent.

I told Paul we still need bond form drilling

MICROFILMED

JAN 30 1987

State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

August 17, 1983

Paul M. Castelin
Anderson & Kelly, Inc.
6700 Emerald St.
Boise, ID. 83704

RE: Permit 63-9890 (VA Medical Center)

Dear Paul:

The drilling prospectus submitted by you on behalf of the V.A. Medical Center is approved, subject to the following conditions:

1. A Notice of Intent to Drill must be submitted to the Department of Water Resources at least two working days prior to the commencement of drilling operations.

2. All State air and water pollution statutes and regulations shall be complied with.

3. The Department of Water Resources shall be notified 48 hours in advance of any BOPE tests, other tests, and cementing.

4. IDWR shall be informed on a weekly basis of the lithology, water-bearing zones and lost circulation zones for the total depth of the well.

5. The Department reserves the right to require 12-inch casing and cementing below 700 feet if conditions warrant. The Department shall be consulted prior to setting and cementing of the 12-inch casing.

6. No toxic additives are to be used in drilling fluids without prior written permission of this Department.

7. A copy of all well logs, including lithologic, shall be sent to this Department within sixty (60) days of completion. This information will be held confidential for one year as provided for in Rule 5.3 of the Rules and Regulations for Drilling for Geothermal Resources.

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8. A chemical analysis of the geothermal resource water must be submitted within five working days prior to any flow or pumping tests unless the requirement is waived by this Department. In any case, a complete chemical analysis of the geothermal water must be submitted within 60 days of completion of the well.

9. The drilling prospectus shall be adhered to except when any of the previously listed conditions conflict with or differ from the prospectus, then the above conditions shall be followed.

If this Department can be of further assistance to you in this matter, please contact us.

Very truly yours,

NORMAN C. YOUNG, Administrator
Resources Administration Division

NCY:JEB:ldt

CC: IDWR - Western Region
V.A. Medical Center

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V A Medical Center

Permit 63-9890 (Space Heating)

To be placed in 8' diameter 6' deep pit (cellar)

40' conductor pipe. - 16" - OD

700' Surface casing - 12" - ID

May hang 8" ID casing - Not sealed between 12" + 8" (Should be okay.
Will drill with drilling mud.

No disposal of mud allowed on site

(All casing diameters meet standards
Cementing - Adequate.
BOP Required.
Logs, drillers record required

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8/10/83

To John B. V. A. 63-9890 BM 2E Sec 2 NWSW
Other 4 holes for Boise Geothermal
encountered water at #1 887 2000' hole casing cemented 874'
#2 658 880' hole " " 642'
#3 665 1897' hole " " 653'
#4 610 1103' hole casing 598'

Ask Paul B.O.P. pg. 7 3000 psi? should be running 300 psi mud.
Do they anticipate encountering artesian pressure @ 700
is mud weight sufficient if BOP isn't installed on Conductor casing
until surface casing is set.

Conductor casing allow 24 hr to cure unless
accelerators are used.

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ANDERSON & KELLY, INC.
CONSULTANTS IN ENGINEERING AND GEOLOGY
6700 EMERALD STREET BOISE, IDAHO 83704
(208) 375-9220

RECEIVED
AUG 5 1983
Department of Water Resources

August 4, 1983

Mr. John Beal
Construction Permits Section
Idaho Dept. Water Resources
Statehouse
Boise, ID 83720

Dear John:

Pursuant to our conversation in your office the other day, enclosed for your review is a copy of the drilling prospectus you requested for the VA Medical Center geothermal production well. As you will see, it is very similar to well designs approved for the other geothermal wells for both the Capitol Mall and Boise Geothermal, Ltd. permits. We anticipate only minor changes in hole depth or casing length, depending on the specific geology encountered.

In Part B, Location, in the prospectus, the location as described has been changed, and is now the same as that described as "additional points of diversion" in the permit; 63-9890, the SE¼ SW¼ of Section 2, T3N, R2E, B.M. Drilling is anticipated to begin within 2 weeks; the contractor to be Materi Exploration, Inc., whose representative, Tim Barritt, you met last week.

If you have any questions, or there are any points that need to be clarified, please give me a call.

Sincerely,

ANDERSON & KELLY, INC.

Paul M. Castelin

PMC/sk

encl.

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SPECIAL SPECIFICATIONS

Well Drilling

As stated elsewhere in these documents, the estimates of quantities are only approximate. The Owner reserves the right to increase or decrease individual items in such amount as may be, in his sole judgment, to his best interests depending upon conditions encountered or observed during drilling.

A. Scope

The specifications cover the complete drilling, casing, and development of a geothermal well for the Veterans Administration Medical Center. Except where otherwise specified, the Contractor shall furnish all equipment, tools, materials, and supplies required for work, including any transportation, handling, or storage.

B. Materials and Workmanship

It is contemplated that the well will have 12-inch I.D. casing from land surface through unconsolidated sediments and the upper part of the volcanic sequence to about 700 feet, and an 8-inch I.D. screen assembly consisting of blank and perforated casing and/or stainless steel well screen from the bottom of the 12-inch casing to total depth, although the lower portion of the well may be completed as an open hole.

Location

The well will be located in or near the parking lot in the northwest corner of the VA grounds in Boise, Idaho. The exact location of the well will be staked in the field prior to the award of the contract.

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Access

Access to the well site will be from either Fort and Fifth Streets or from Union Street. This area is characterized by narrow streets and special permits and/or arrangements by the Contractor for moving the drill rig or other equipment may be required. The Contractor shall be responsible for making such arrangements and shall maintain liaison with the Engineer. Payment for general well site construction shall be under the provisions of mobilization in the Bid Schedule. All specific site work necessary (pad for rig, mud tanks, or pits, etc.) also shall be furnished or done by the Contractor and the cost of such work shall be included in amount bid for Mobilization. The Contractor shall obtain prior approval and name the subcontractor for such site work in the space provided in the Proposal.

Mobilization

Upon commencement of the contract, the Contractor shall move in the drill rig, tools, equipment, materials, and supplies necessary for the work. Payment for all such work involved shall be at the lump sum amount in the Bid Schedule for Mobilization.

Demobilization

Upon completion and acceptance of the well to be drilled under this contract, the Contractor shall remove the drill rig, tools, equipment, materials, and supplies from the site, fill all pits, and leave the site in a neat and orderly condition. Payment for all such work involved shall be at the lump sum amount bid in the Bid Schedule for Demobilization.

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Cellar

The Contractor shall furnish and install an 8-foot diameter by 6-foot deep cellar. Cellar shall be constructed of 10 gage galvanized corrugated steel sections and placed vertically with the well head assembly centered. Payment for all such work shall be at the lump sum amount in the Bid Schedule for Cellar Construction.

Conductor Casing

The Contractor shall furnish, install, and cement in place to within 5 feet or less of the cellar floor the conductor casing. The depth of setting of the conductor casing shall be 40 feet unless otherwise directed by the Engineer. The top of the conductor casing shall be at the cellar floor. The minimum diameter of the conductor casing shall be 16-inch O.D., 0.250-inch wall thickness. Measurement for payment for drilling shall be the actual depth drilled, in linear feet, of the larger-diameter hole to accommodate the conductor casing. Payment for drilling shall be at the unit price per linear foot bid in the Bid Schedule for Drilling Hole for Conductor Casing. Measurement for payment for the conductor casing shall be at the actual length of conductor casing cemented in place, in linear feet. Payment for conductor casing, including all work or costs required in the furnishing, installing and cementing of the casing, shall be at the unit price per linear foot bid in the Bid Schedule to Furnish and Install Conductor Casing.

Drilling

The well shall be drilled to an estimated depth of between 1,200 and 2,000 feet below ground. The well will be drilled with sufficient diameter to accommodate minimum 12-inch I.D. casing cemented to a depth of about 700 feet. Below that point the well will be drilled with a hole of sufficient size to accommodate the 8-inch I.D. casing and well screen that may be hung from the 12-inch casing. Limited records of the construction of nearby wells is available for information use from the Engineer. The

JAN 30 1987

well shall be drilled by either the direct- or reverse-circulation rotary method, using conventional drilling mud, unless otherwise directed by the Engineer. The Contractor shall provide the drill rig, tools, pumps, drill pipe, drill collars, bits, drilling fluid, and all other equipment, materials, and supplies required for drilling and completion of the well. The Contractor shall specify in advance the manufacturer, type, size of equipment to be used; all equipment shall be in good condition and properly maintained. Measurement for payment for drilling shall be the actual length in linear feet of each diameter hole drilled. Payment for drilling shall be at the applicable unit price per linear foot bid in the Bid Schedule for each particular diameter and depth range, which price shall include all costs incidental to the drilling including such items as bit, mud, additives, etc.

Drilling Fluid

The Contractor shall at all times maintain the drilling fluid in such a manner as to best protect the hole from sloughing, caving, or other damage that may cause difficulty in completing the well. The drilling fluid used shall be a fresh-water, low solids, dispersed, gelchemical mud with characteristics approximately as follows:

Weight:	8.8 - 9.3 lbs/gal
Viscosity:	40-45 seconds
Water Loss:	Less than 10 cc
Sand Content:	Less than 2 percent

The Contractor is required to use portable mud tanks rather than excavated pits because of mud and cuttings disposal problems, as well as parking lot restoration considerations. No on-site disposal or burial of drilling mud or cuttings will be allowed. It is contemplated that the Contractor will need to periodically pump such materials from the reserve tank or pit during drilling operations. The Contractor shall have a primary mud pump capable of 350 to 400 gpm and a back-up mud pump of about 250 gpm capacity which will be required for reserve in order to insure no failure of the hole.

JAN 30 1984

It shall be the Contractor's responsibility to maintain the mud in the optimum condition required for drilling as dictated by prevailing conditions. The Contractor shall provide the necessary monitoring and management of drilling fluid properties by means of periodic measurements of weight, viscosity and water loss. In addition, the services of a recognized mud-service company may be necessary, if directed by the Engineer. The mud system shall be constructed in such a way that recirculation of sand or cuttings is minimized and losses in circulation are readily detectable. No payment will be made for costs of preparing and maintaining drilling fluids. All costs associated with the drilling fluids shall be included in the unit prices bid for drilling in the Bid Schedule.

Lost Circulation

In the event circulation is lost in the upper part of the hole being drilled to accommodate the 12-inch casing, the Contractor shall notify the Engineer immediately and shall make every effort to restore circulation. The Contractor shall have on hand at the well site, throughout the drilling, a minimum of $1,000 worth of lost-circulation material. In the event that any such material (or additional amounts) are required, the Contractor will be reimbursed for his purchase cost of the materials used plus the mark-up percentage of such cost as bid in the applicable Bid Schedule for Other Materials and Services. If more than 8 hours are required to restore circulation, the Contractor shall be paid for the time over 8 hours at the hourly rate bid in the applicable Bid Schedule for Miscellaneous Work Items. If the loss of circulation is due to negligence or faulty equipment or operations on the part of the Contractor, he shall not be entitled to any payment for lost-circulation materials, nor for time spent in restoring or attempting to restore circulation. No lost-circulation material shall be used when drilling below the 12-inch casing, unless specifically directed by the Engineer.

Plumbness and Alignment

The well shall be drilled, from land surface to a depth of about 700 feet, sufficiently straight and plumb to permit installation

JAN 30 1987

and cementing of the casing as specified and, further, the deviation of the hole shall not exceed 1 degree per 100 feet for the first 700 feet of drilling. However, if the deviation does not exceed 1 degree per 100 feet, the alignment will be considered satisfactory if the casing will permit the free lowering and raising of a dummy between land surface and 500 feet. If a dummy is used, it shall consist of two 20-foot lengths of standard 10 3/4-inch O.D. pipe (40 feet long overall). The Contractor shall be responsible for seeing that the hole, as drilled, meets the above standards, and the Contractor shall maintain close liaison with the Engineer regarding alignment as drilling is in process and as deviation surveys are made. In order to insure the drilling of the well to alignment specifications, the Contractor shall furnish and employ a deviation indicator to measure hole deflection. Deviation indications shall be taken from the surface to at least 700 feet at intervals of not more than 100 feet and more frequently if directed by the Engineer; deviation indications shall be taken below 700 feet at intervals of not more than 200 feet. The indicator shall be either an Eastman mechanical deviation indicator available from the Eastman Oil Well Survey Company, or an approved equivalent. A 6-or 7- degree unit shall be used with the indicator. The Contractor shall modify the deviation indicator to allow insertion of a maximum-reading thermometer to obtain down-hole temperature measurements. No separate payment will be made for making deviation and temperature measurements and all costs associated with such measurements shall be included in the amounts bid in the Bid Schedule for Drilling.

Casing

The casing shall be new steel pipe meeting ASTM A-53 specifications, of minimum 12-inch I.D. size, Schedule 30, 0.330-inch wall thickness, weighing not less than 43.77 lbs/ft. The Contractor shall set the 12-inch casing at about 700 feet depth, as directed by the Engineer. The casing shall be installed with a float shoe (or equivalent equipment to permit pressure cementing) and centralizers, the cost of which shall be included in the amount bid for furnishing and installing casing. Casing may be supplied plain-end and joined with full penetration welds or threaded and coupled. Measurement for payment for casing shall

JAN 30 1987

be of the linear feet actually installed in the well and payment shall be at the unit price per linear foot bid in the Bid Schedule.

Cementing

Cementing of the 12-inch casing shall be done in a continuous manner with an attempt to circulate cement to the surface. The cementing shall be done by a recognized and experienced cement service company, as approved in advance by the Engineer.

The cement used shall be Halliburton Light, or equivalent, until circulation to surface, followed by about 80 sacks of Type G cement.

Cement shall be allowed to set a minimum of 24 hours before any drilling operations are resumed on the well. Measurement for payment for cementing operations shall be of the actual lineal feet of 12-inch casing cemented. Payment for cementing operations shall be at the unit price bid in the Bid Schedule for Cementing Casing.

If circulation to surface cannot be accomplished using conventional techniques on the original attempt, the Contractor shall continue cementing operations, only if and as directed by the Engineer. Any additional cementing operations, done subsequent to the original attempt, as directed by the Engineer, will be under the Other Materials and Services category with payment as specified herein.

Blow-out Preventer (BOP) and Well Head Assembly

It is anticipated that the shut-in pressure probably will not exceed 30 psi, based on drilling of wells to 3,000 feet in the general area. However, the Contractor shall provide BOP equipment consisting of a rotating head rated at not less than 3000 psi and necessary appurtentant equipment. The Contractor shall provide a description of such BOP equipment for prior approval. No separate payment will be made for the cost of supplying BOP equipment and

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JAN 30

the costs associated thereto shall be included in the unit prices bid for Drilling in the Bid Schedule.

The BOP shall be installed after the permanent well head assembly has been attached to the 12-inch casing as shown on the drawing. The well head assembly shall consist of a 12-inch full-opening valve attached to the casing with a minimum 125 psi casing head or flange that is welded to the 12-inch casing. After completion of the well and removal of the BOP, a 12-inch tee with an 8-inch side outlet, with flanged 8-inch valve, shall be installed on the 12-inch valve. The top of the tee shall be fitted with a blind flange for future access and standard 1/4-inch fittings for pressure gage assembly. All equipment shall be designed for a 125 psi service pressure.

Payment for furnishing and installing the BOP and the permanent well head assembly shall be at the lump sum amount bid in the Bid Schedule, which amount shall include all incidental costs such as transportation charges, special fittings, etc.

Liner and Well Screen

The liner casing shall be new steel pipe meeting ASTM A-53 specifications, of 8-inch I.D. size, 0.250-inch wall thickness. The 8-inch liner assembly, consisting of blank and slotted casing and/or stainless steel well screen, shall be set at the depth directed by the Engineer and shall be installed in the 12-inch casing using a liner hanger. The cost of any accessories required shall be included in the cost of the liner hanger. The well screen shall be of the V-slot continuous wire-wound pipe base type in Type 304 stainless steel 8-inch pipe size.

Measurement for payment for liner and well screen shall be according to the linear feet actually installed in the well. Payment for liner shall be at the unit price per linear foot bid in the Bid Schedule and shall include all costs related thereto. Payment for the additional cost of factory slotting of the casing shall be under the provisions of Other Materials and Services. Payment for the well screen, if required, also shall be made under the provisions of Other Materials and Services.

Liner Hanger

The liner hanger to be installed on the top of the 8-inch liner assembly will be hung about 20 feet above the bottom of the 12-inch casing with a mechanical liner hanger from an approved manufacturer.

Payment for furnishing and installing the liner hanger shall be at the lump sum amount bid in the Bid Schedule to Furnish and Install Liner Hanger, which amount shall include all incidental costs such as special subs, or serviceman charges, together with any accessories required.

Logging-Complete Suite

The well shall be logged by an approved reputable and experienced logging company. The logging company shall have 5 years or more experience in geothermal well logging. The types of logs and sequence of logging, to comprise one complete suite, shall be as follows:

A. After drilling to completion, and before setting the 8-inch liner; run SP and resistivity, multi-arm caliper, gamma ray-compensated density with caliper logs in the open hole from T.D. to casing bottom, and gamma ray-neutron logs and temperature profile from T.D. to surface.

B. Other logs may be specified before dispatch by the logging company.

Payment for running the above specified complete suite of logs (A) shall be at the lump sum price bid in the Bid Schedule for Logging-Complete Suite. Any other logs requested by the Engineer (B) will be treated as "Other Materials or Services" under the contract.

Conditioning Hole For Logging

Prior to running logs it may be necessary to circulate and

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condition the drilling fluid. No special payment will be made for hole conditioning and any costs associated with such work shall be included in the amounts bid for items of work in bid schedule.

Development

Upon completion of drilling, casing, and logging, the well shall be cleaned by circulating clear water and developed by air-lift pumping, as directed by the Engineer. The Contractor shall furnish an air compressor with a minimum capability of delivering 900 cfm at 250 to 300 psi. The Contractor shall state the make and capacity of the compressor to be used for approval. Air-lift pumping can be done by introducing the air through the drill pipe or through separate tubing, minimum 2 7/8-inch size (at least 700 feet long) at the Contractor's option. Payment for any chemicals used shall be under the provisions of Other Materials and Services at actual cost plus the percentage mark-up bid. Payment for furnishing the compressor and furnishing, installing, and removing the air line shall be at the lump sum price bid in the Bid Schedule for such work items. Measurement for payment for operating the compresssor shall be the actual number of hours the compressor is in use. Payment for operating the compressor shall be at the unit price per hour bid in the Bid Schedule for Operating Compressor For Well Development.

Testing

Testing of the well will be done by others under separate contract.

Samples and Records

The Contractor shall keep and maintain accurate and complete records of the well construction and progress of the work. All records shall be made available to the Engineer upon request. The Contractor shall submit for approval by the Engineer the format which he intends to use. Following are the records that must be kept and furnished to the Engineer:

A. Driller's Log. The driller's log shall include all

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information pertinent to the well construction and the progress of work. The driller's log should be a running account which includes drilling times and bit penetration rates, quantities and types of materials, additives and chemicals used, special or peculiar events, etc.

B. Department of Water Resources Regulations. The Contractor shall conform to applicable portions of Minimum Well Construction Standards for Drilling for Geothermal Resources including records of drilling mud temperatures, etc.

C. Geolograph Record.

D. Materials Log. The Contractor shall keep a record of the assembled order, number, type, size, lengths and coupling of the individual pieces of casing, liner, well screen and any other items placed in the well.

E. Material Certificates. Manufacturers' and suppliers' certificates or invoices for all materials delivered or services rendered to the job site shall be maintained. The certificates or invoices shall describe the material delivered, including weight, class, or grade, quantity, etc.

F. Samples. The Contractor shall take samples of each formation change and at 20-foot intervals to the top of the volcanic sequence, at approximately 700 feet, and at each formation change and at 10-foot intervals, or as directed by the Engineer's site geologist, thereafter. Samples shall be kept in standard sample sacks to be supplied by the Contractor, marked to identify the depth from which they are collected. The Contractor shall furnish a standard shale shaker with a capacity of not less than 500 gpm. No payment will be made for work involved with samples or records and all costs for such work shall be included in the amount bid for items of work in the bid schedule.

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Utilities and Sanitation

The Contractor shall be responsible for furnishing or arranging for electricity, water, sanitary facilities for workers, and other utilities required in the drilling of the well. The Contractor also shall supply an office trailer complete with telephone for use by the Contractor and the Engineer.

Recovery of Tools

The Contractor shall not be entitled to any payment for time spent or expense incurred in attempting to fish or recover tools or equipment lost in the well nor for time spent or expense for successful recovery of such lost tools.

Abandonment

If the Contractor abandons the well because of loss of tools or equipment, or if the well does not meet specified plumbness and alignment requirements, he shall, if directed, fill the abandoned well and salvage any casing or other materials. Salvaged casing or materials shall remain the property of the Contractor. The cost of abandonment and filling shall be borne solely by the Contractor and no payment shall be allowed for any work or material on the abandoned well. Any partial payments already made on the abandoned well shall be applied to a subsequent well, or refunded to the Owner, at the option of the Owner.

Disposal of Water

The Contractor shall not dispose of water outside of the mud tanks or pits without approval of the Engineer. If requested by the Engineer, the Contractor shall construct such dikes, etc. as may be required to control or dispose of water. The Contractor, in coordination with the Engineer, shall be responsible for obtaining permits, erection of barricades or signs, or other requirements by the City of Boise. Payment for all such work under this paragraph will be made under the provisions in these specifications and the applicable bid item for Other Materials and Services.

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Protection of Water Quality

The Contractor shall take necessary precautions to prevent any contamination of the water in the well from foreign substances, such as contaminated water, gasoline, oil, etc.

Miscellaneous Work Items

Miscellaneous additional work items required in drilling (such as circulating for samples, time spent over 8 hours to restore lost circulation, etc.) that utilize the Contractor's rig and crew shall be paid for at the unit price per hour in the applicable Bid Schedule for Miscellaneous Work Items.

Other Materials or Services

In the event that the Contractor is requested to furnish other materials or services not covered by specific bid items, such as additional logging, lost-circulation materials, or other work, supplies, services, etc, the Contractor shall be reimbursed for his actual cost of such materials or services (supported by proper invoices) plus a percent of such cost equal to the amount of percentage bid in the applicable Bid Schedule for Contractor's Mark-Up on Other Materials or Services. For the purpose of bid evaluation, the Contractor shall assume the total cost of such other materials or services to be $20,000 as shown in the Bid Schedule, but with no guarantee as to actual amount of such item.

Standby Time

Standby time shall be the time when the drill rig is shut down, although in readiness to begin or resume operations, while the Contractor is waiting on orders of the Owner or on materials or services or other items to be furnished by the Owner. The Contractor shall be reimbursed for standby time at the unit price per hour bid in applicable Bid Schedule for Standby Time. No Standby Time allowance will be given for delays caused by Contractor-furnished items or services (such as waiting on logging) nor for time involved in breakdown or repair of

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Contractor's equipment such as compressor, generator, etc.

Unusual Conditions

In the event difficult, hazardous, or unusual conditions such as steeply dipping, faulted, broken, or cavernous formation, which makes drilling abnormally difficult or hazardous, causes sticking of drill pipe or casing, or precludes drilling ahead under reasonably normal procedures as determined by the Engineer, the Contractor shall, in all such cases and without undue delay, exert every reasonable effort to overcome such difficulty. If such condition is encountered, further operations shall be conducted on an hourly basis, with the Contractor compensated at the hourly rate bid in the applicable Bid schedule for Miscellaneous Work Items, until the Engineer determines that such conditions have been overcome and normal drilling operations can be resumed. Any footage drilled while operating under such hourly provisions shall be deducted from total footage drilled in arriving at payment for drilling.

Records of Other Drilling

Records of earlier drilling in the vicinity of this work are available from the Engineer for reference. These will be supplied solely as a matter of record and do not purport to indicate the character or thickness of materials to be encountered in the drilling under this contract, nor the quantities of materials, rate of progress, or difficulties to be expected.

Completion and Surface Restoration

Upon completion of the drilling operation the Contractor shall cap the well with the valve assembly specified previously under Blow-Out Preventer and Well Head Assembly. The Contractor also shall be responsible to restore the drilling site to its present condition. All pits shall be filled and the surface restored to a condition comparable to pre-drilling conditions. The well-site area shall be left in a neat and orderly condition, as directed by the Engineer, including removal of all trash and expendibles, filling of all pits, leveling of pads, and restoration to original

RECLAIMED

JAN 30 1987

contours. The top of casing shall be left 2 feet above the floor of the cellar.

C. Payment

Drilling will be measured in linear feet of well drilled, to the nearest foot.

Payment for work, materials, and equipment specified in this section will be made at the unit price as stated in the Contractor's proposal bidding schedule.

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State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

January 7, 1982

RE: Permit No. 63-9890

V A Medical Center
5th & Fort Streets
Boise, ID 83702

Attn: Jim Holland

Dear Mr. Holland:

In our letter to you dated January 3, 1983, we stated that the Commencement of Works postcard must be returned to our office by July 1, 1983. Unfortunately this is the wrong date. The postcard should be returned within one year from the date the permit was approved which would be December, 1983.

I hope this error has not caused you any inconvenience and if you have any other questions please feel free to contact me at 334-4123.

Sincerely,

ROBYN CARLSON
Chief Clerk

RC:kw

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JAN 30 1987

January 3, 1983

RE: Permit No. 63-9890

VA Medical Center
5th and Fort Streets
Boise, ID 83702

Gentlemen:

This office acknowledges receipt of the Assignment of the above referenced permit to you.

Enclosed for your records is a copy of the permit. Be sure to note the special conditions of approval on the fourth page that identify requirements necessary for developing the permit into a licensed water right.

The 1982 Idaho Legislature added a requirement to your permit. Because of the change, you must commence the excavation and construction of the diverting works for your permit no later than July 1, 1983. The statute further requires that you then proceed with due diligence in completing the diverting works and applying the water to beneficial use.

To maintain the validity of your permit, you must return the Commencement of Works postcard for your permit subject to the requirement. Note that on the card you can indicate that either (1) you have commenced construction or (2) you have been prevented from initiating development due to a factor beyond your control, such as the Idaho Power Moratorium, a required approval of the Federal Government, or litigation which prevents development of the project. Please note the recent purchase of the land is not considered a reason for prevention from initiating development under this permit. Enclosed you will find the Commencement of Works postcard. Please return this card to our office no later than July 1, 1983.

If you have any questions on this matter, please feel free to contact us.

Sincerely,

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JAN 30 1987

ROBYN CARLSON
Chief Clerk

RC:kw
Enclosures

Office of District Counsel
550 W. Fort Street
P.O. Box 044
Boise ID 83724
344-6187
FTS 554-7203

Veterans Administration

HAND DELIVERED

December 22, 1982

In Reply Refer To:
347/02

Mr. David B. Shaw
Western Regional Supervisor
Department of Water Resources
State of Idaho
Statehouse Tower Building
450 West State Street
Boise, Idaho 83720

Re: Assignment of Geothermal Supply Well Permit No. 63-9890

Dave

Dear Mr. Shaw:

I have enclosed an Assignment of Permit with respect to the above well.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Bill

WILLIAM F. HELFRICK
District Counsel

Encl.

cc: Mr. James A. Goff (531/00)
Medical Center Director
VA Medical Center
5th & Fort Streets
Boise, ID 83702

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DEC 22 1982
Department of Water Resources
Western Regional Office

State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

December 14, 1982

RE: Permit No. 63-9890

James A. Goff
VA Medical Center
5th & Fort Streets
Boise, ID 83702

Dear Mr. Goff:

Enclosed is a copy of your approved Application for Permit. We direct your attention to the conditions of approval on the fourth page.

The following five conditions of approval are in addition to those identified on the fourth page:

1. Thirty days prior to drilling the well(s), the permit holder must submit to the Department Permit Section a drilling prospectus for review and approval. Approval must be received from the Department prior to drilling. The prospectus should include the following:
   a. Details of well construction.
   b. Casing sizes, thickness and depths.
   c. Safety devices such as blow-out equipment.
   d. All means by which the geothermal resource will be contained and protected.
   e. A list of measuring &/or monitoring equipment to be installed.
   f. Grouting procedures.
   g. All other pertinent information.

   Any variations of the above prospectus must be approved by the Department on a case by case basis.

2. Sixty days prior to drilling an injection well, the permit holder must submit to the Department's Permit Section an application for waste disposal and injection well along with a detailed prospectus as described in the above condition. Approval must be received prior to injection.

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JAN 30 1987

3. Any well drilled pursuant to this permit must be drilled by a licensed Idaho Water Well Driller and constructed in compliance with the Idaho State Rules and Regulations for Minimum Well Construction Standards. Well Driller's Reports must be submitted to the Department within thirty (30) days of completion.

4. The permit holder shall notify the Department five days prior to drilling and twenty four hours prior to any testing or other major drilling operation.

5. The Director retains jurisdiction of this permit for the primary purpose of requiring injection of the water back into the aquifer if determined by the Director to be necessary.

The 1982 Idaho Legislature added a requirement that as a permit holder you must commence the excavation or construction of diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The enclosed blue card must be completed and returned to this office as soon as you commence construction, no later than one year from the date the permit was approved.

Be sure to note the special condition requiring you to install a measuring device, or an access port to provide for the installation of measuring equipment by the Department. Enclosed please find a list of measuring device options, and specifications for the installation of the access port.

Please be advised that at this time the Department is managing the geothermal system as a groundwater resource. This type of management affords only limited protection to pumping levels and temperatures. There are a significant number of prior applications for use of the geothermal system that may affect the availability of the resource for your proposed project.

We have enclosed instructions entitled "Making Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit into a license.

Sincerely,

L. Glen Saxton

L. GLEN SAXTON
Chief, Operations Bureau

LGS:DRT:kw
Enclosures

MICROFILMED
JAN 30 1987

Form No. 202a
3/79

State of Idaho
Department of Water Resources

APPLICATION FOR PERMIT ANALYSIS SHEET

INITIAL REVIEW BY: GLS APPLICATION NUMBER: 63-9890

CHECK:

- ☑ Source.
- ☑ Point of diversion.
- ☑ County.
- ☑ Quantity of water and period of use.
- ☑ Description of diverting works.
- ☑ Time required for beneficial use of water.
- ☑ Place of use or acres irrigated.
- ☑ Map.
- ☑ Signature.
- ☑ Fee.

Field check by: _____
Date: _____
Comments: _____

- ☐ Yes ☑ No Field check required.
- ☐ Yes ☑ No Critical groundwater area.
- ☐ Yes ☑ No Request dam safety information. Sent by: _____ Date: _____
- ☑ Yes ☐ No* In form to receipt.

*REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT: _____

SEND COPIES TO:

- ☐ Idaho State Health Department. Copies sent by: _____ Date: _____
- ☐ Idaho Fish and Game Department.
- ☐ Idaho Department of Lands.
- ☐ U.S. Bureau of Land Management.
- ☐ U.S. Forest Service.
- ☐ Other _____

PROCESSING:

- ☐ Yes ☐ No Platted by: _____ Map No. _____
- ☐ Yes ☑ No Other rights on same place of use. None
- ☑ Yes ☐ No* In form for advertising. Final date for protests: 5/17/82. ✓
- ☐ Yes ☐ No Protests received. If yes, record information on 4th page of application.

FINAL REGIONAL PROCESSING REVIEW:

- ☑ Affidavit of publication received. Date: 5/17/82 ✓
- ☑ Application published correctly. If not, record action taken: _____
- ☑ Fee amount, receipt date & number, recorded on application. $55.00/ 22873
- ☑ Publication dates and paper, recorded on application. 4/28 & 5/6/82
- ☑ Protests, dates, withdrawal, etc., recorded on application.
- ☑ Recommendation & initial, recorded on application.
- ☐ Yes ☑ No Measuring device required.
- ☑ Yes ☐ No Access port required.
- ☐ Yes ☑ No Will water be delivered by watermaster? If yes, what district? _____
- 4/19/82 Date of priority recommended.

Special conditions of approval or cover letter. [redacted] 26

All water diverted under this permit shall be re-injected into the same aquifer from which they were diverted.

[See also memo from Frank Sherman & draft letter from John Beal]

By: [redacted] DBS Date: [redacted] 11/30/82

STATE OFFICE REVIEW:

SLW/47,103

[redacted] See attached pages of conditio

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☐ See attached sheet for more information.

By: _____ Date: 12/2/82

JAN 30 1987

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DEC 1 1982
Department of Water Resources

State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

MEMORANDUM

TO: Dave Shaw DBS DATE: November 30, 1982

FROM: Frank Sherman FBS

SUBJECT: Application No. 63-9890, Veterans Administration

1. I recommend approving the application.

2. I think the applicant should be told that: at this time, the department is managing the system as a ground-water resource. This type of management affords only limited protection to pumping levels and temperatures.

3. The applicant should further be warned that there are a significant number of prior applications for this type of use. The department does not have the data to assess the likely impact of continued development of this resource.

4. One possible approach the department might take would be to declare the geothermal aquifer a ground-water management area.

FBS/cjk/1

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JAN 30 1987

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NOV 30 1982
Department of Water Resources
Western Regional Office

IDWR Routing Slip

File No. 63-9890

Routing Order		Initials	Date
	Director		
	Deputy Director		
	Resource Admin. Division		
2	Regional Office Bureau Chief		
1	Operations Bureau Chief	[illegible]	11-2
	Water Allocation Section		
	~~Dam Safety Section~~		
	Permits Section		
	Resource Analysis Division		
	Technical Serv. Bureau Chief		
	Hydrology Section		
	Geothermal E.Q. Section		
	Remote Sensing Section		
	Project Studies Bureau Chief		
	Engineering Section		
	Economics Section		
	Local Support Section		
	Management & Support		
	Systems Mgmt. Section		
	Fiscal Section		
	Personnel Section		
	Legal		
3	Other Dave Shaw		

For: ☐ Review & Comment ☐ Approval ☒ Informatio

☒ As Requested

MICROFILMED

Please return to _____

by JAN 30 1987
(date)

Dear ____ :

Your Application is approved subject to the following conditions:

1. Thirty days prior to drilling the well(s) you must submit A drilling prospectus to the Department for review and Approval. Approval of the Department must be received prior to drilling. The prospectus should include:
   - Details of well construction.
   - Casing sizes, thickness, and depths.
   - Grouting procedures
   - Safety devises such as blow-out prevention equipment
   - All means by which the geothermal resource will be contained and protected
   - A list of measuring or monitoring equipment to be installed. and
   - Any other pertinent data.

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JAN 30 1987

2. Any variations from the prospectus must be approved by the Department on a case by case basis.

3. ~~The~~ Your application indicates an injection well is also anticipated. You must submit and receive approval for an application for an ~~injection~~ waste disposal and injection well prior to injection. The details listed in item 1 above will be needed for the injection well, also. To avoid delay you should allow 60 days for the approval of the injection well.

4. The well(s) must be drilled by a licensed Idaho water well driller and constructed in compliance with the State Rules and Regulations for Minimum Well Construction ~~Standards of the State.~~ Well driller reports must be filed with ~~30 days~~ this Department with in 30 days of completion.

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5. The Department shall be notified 5 days prior to drilling and 24 hours prior to any testing or other major drilling operation.

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JAN 30 1987

INTER-DEPARTMENT MEMO — 1

FROM David Shaw

DATE 11/8/82

TO John Carlson

SUBJECT App # 63-9890

The protest against this app has been withdrawn and it is now ready for final action. Do you have any recommendations for approval or denial and if approved any special conditions that should be included?

Thanks.

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JAN 30 1987

SIGNATURE

Form 202
3/78

Ident. No. 63-9890

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant James A. Goff Phone 336-5100 Ext. 351

   Post office address VA Medical Center, 5th & Fort Sts., Boise, ID 83702

2. Source of water supply Ground water which is a tributary of _____

3. Location of point of diversion is NW ¼ of SW ¼ of Section 2 Township 3N

   Range 2E B.M. Ada County, additional points of diversion if any: _____

   SE 1/4 of SW 1/4 of Section 2 Township 3N Range 2E

4. Water will be used for the following purposes:

   Amount 2.23 cfs (cfs or acre-feet per annum) for space heating purposes from Jan. 1 to Dec. 31 (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purposes from _____ to _____ (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purposes from _____ to _____ (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purposes from _____ to _____ (both dates inclusive)

5. Total quantity to be appropriated:

   a. 2.23 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

   a. Description of ditches, flumes, pumps, headgates, etc. 75 HP pump for geothermal production well with matching pump for reinjection well

   b. Height of storage dam N/A feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____

   Period of year when water will be diverted to storage _____ (Month/Day) to _____ (Month/Day) inclusive.

   c. Proposed well diameter is 14 inches; proposed depth of well is 2,000 feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 years *(minimum 1 year – maximum 5 years).*

8. Description of proposed uses:
   a. If water is **not** for irrigation:
      (1) Give the place of use of water: _____ ¼ of SW ¼ of Section 2 Township 3N

      Range 2E B.M.

      (2) Amount of power to be generated: None horsepower under _____ feet of head.

      (3) List number of each kind of livestock to be watered None

      (4) Name of municipality to be served VA Medical Center, or number of families to be supplied with domestic water _____.

      (5) If water is to be used for other purposes describe: Geothermal water will be used for space heating in all Medical Center buildings.

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JAN 30 1981

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated 0

c. Describe any other water rights used for the same purposes as described above. None

9. a. Who owns the property at the point of diversion U.S. Veterans Administration

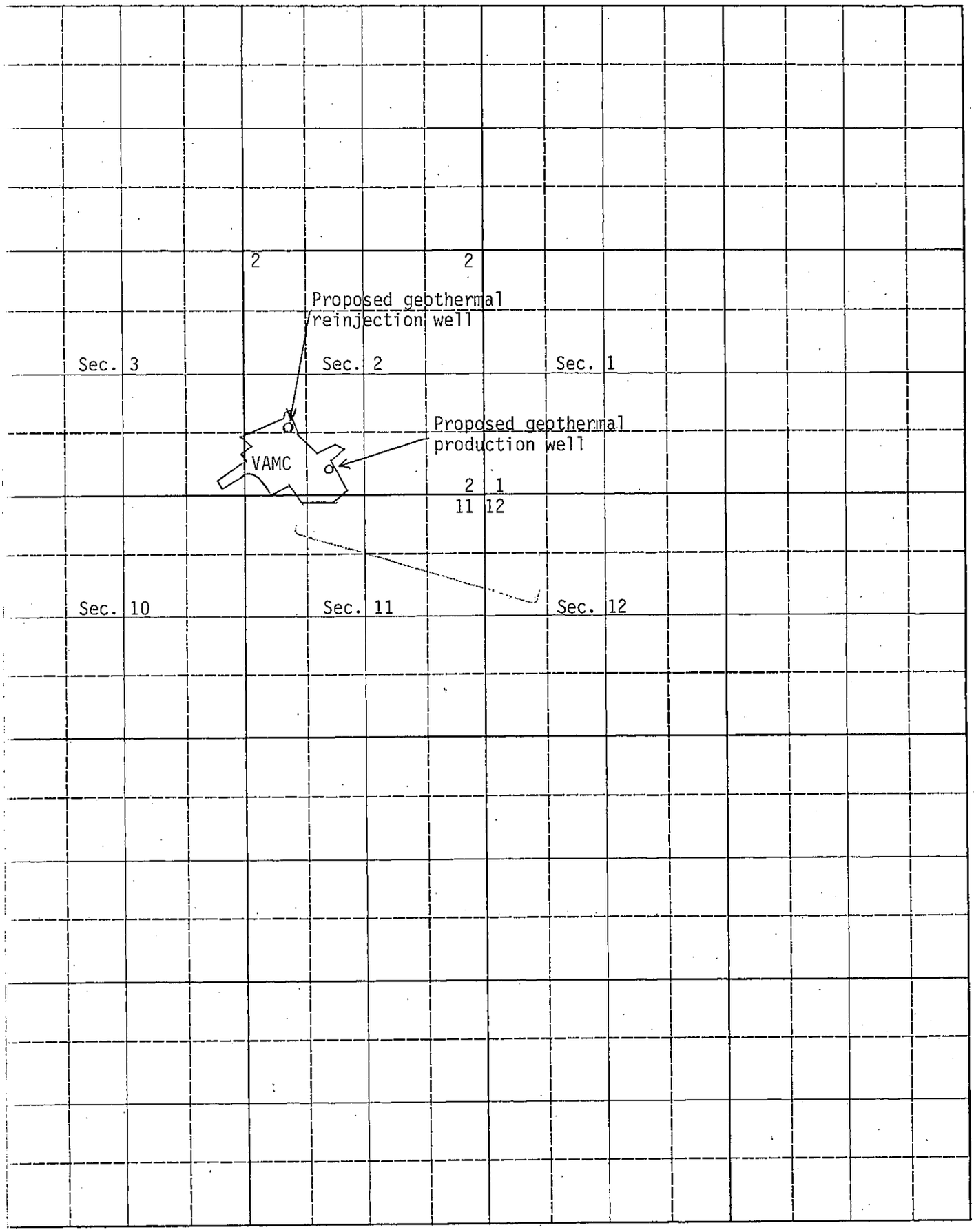
b. Who owns the land to be irrigated or place of use N/A

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing Applicant is Director of Veterans Administration Medical Center.

10. Remarks

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JAN 30 1987

11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

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.

MICROFILMED
JAN 30 1987

JAMES A. GOFF
Medical Center Director

(Applicant)

Received by JH Date 4-8-82 Time 9:25

4-19-82 11:25 am
4-13-82 10:45

Preliminary check by GLS Fee $ $85.00 #22873

Receipted by ajw Date 4-19-82

Publication prepared by jp Date 4/22/82

Published in Idaho Statesman

Publication dates 4/29 & 5/6/82

Publication approved [illegible] Date 5/7/82

Protests filed by: Boise Warm Springs by Joseph D. McCollum, Jr., Attorney

Copies of protests forwarded by [illegible]

Hearing held by _____ Date _____

Recommended for approval denial by _____

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. _____, and said application is hereby _____.

1. Approval of said application is subject to the following limitations and conditions:

   a. SUBJECT TO ALL PRIOR WATER RIGHTS.

   b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19____.

   c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

   d. Other:

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JAN 30 1987

SPECIAL NOTE: _____ Application No. 63-9890

PROTEST INFORMATION SHEET

Protestant - Name(s)

Boise Warm Springs Water District

Address _____

Attorney - Name & Address Joseph D. McCollum, Jr., Attorney, One Capital Center, P. O. Box 1617, Boise, ID 83701

Date Filed 5/17/82 Protest Date 5/17/82

Issues _____

Applicant - Attorney - Name & Address William F. Helfrick, Veterans Admin; Office of District Counsel, 550 W. Fort Street, P.O. Box 044, Boise 83724

Dates:

Acknowledgement letters: _____

Hearing Notice: _____

Hearing Date: _____

Applicant contact (Cathy?) Bill Helfrick 344-6187
Called per tres 11/8 to acknowledge receipt of stipulation

Other: protest withdrawn

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JAN 30 1981

Protest Information submitted in Computer (following hearing): _____

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

RECEIVED
NOV 4 1982
Department of Water Resources

IN THE MATTER OF THE APPLICATION FOR)
PERMIT NO. 63-9890, IN THE NAME) STIPULATION
OF JAMES A. GOFF, DIRECTOR,)
VA MEDICAL CENTER, BOISE, IDAHO)

COME NOW the undersigned parties, and stipulate and agree as follows:

I.

On March 25, 1982, as a matter of comity, James A. Goff filed the above referenced application to appropriate the public waters of the State of Idaho on behalf of the VA Medical Center, Boise, for the purpose of developing geothermal resources. Boise Warm Springs Water District filed a protest against this application on May 20, 1982.

II.

It is stipulated, based on the monitoring program outlined below, that the protest, presently scheduled for a hearing on November 9, 1982, is hereby withdrawn by the Boise Warm Springs Water District and the parties agree to develop a monitoring program of their respective wells in order to obtain and exchange further data.

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JAN 30 1987

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Department of Water Resources
Western Regional Office

III.

The undersigned parties further stipulate and agree that each will, upon the drilling of any geothermal well, exchange technical information and monitor the water level or pressure of said wells in accordance with the following:

(a) The parties will supply technical data on the drilling of any future wells to each other.

(b) Upon completion of each well, the level or pressure of the water in said well will be monitored using standard recording devices approved by CH2M Hill and Anderson and Kelly. Such data shall be recorded and exchanged until the operation of the system makes collection impractical.

IV.

Photocopies of water level or pressure data will be submitted monthly by each of the parties to the other party on or before the 5th day of each month. Such records will be submitted to the following individuals:

(1) Director (531/00)
VA Medical Center
5th & Fort Streets
Boise, Idaho 83702

(2) Members of Board of Directors
Boise Warm Springs Water District
P.O. Box 114
Boise, Idaho 83701

(3) Mr. Jack Kelly
Anderson & Kelly
6700 Emerald
Boise, Idaho 83704

ENTERED
JAN 30 1987

(4) Mr. John Austin
CH2M/Hill
P.O. Box 8748
Boise, Idaho 83707

Such records shall also be submitted to:

Mr. David B. Shaw
Western Regional Supervisor
Idaho Department of Water Resources
Statehouse
Boise, Idaho 83720

DATED This 22nd day of OCTOBER, 1982.

JAMES A. GOFF
Director, VA Medical Center

DATED This 1 day of November, 1982

JOSEPH D. McCOLLUM, JR., ESQ.
Attorney for Boise Warm Springs
Water District

T. O'Rourke

T. O'ROUARK, P.E.
Chairman of the Board
Boise Warm Springs Water District

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JAN 30 1987

P 300 226 098

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO William F. Hollfrick
District Counsel
STREET AND NO.
Vet. Administration
550 W. Fort St.
P.O., STATE AND ZIP CODE
P.O. Box 044
Boise Id 83724

POSTAGE		$
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	¢
OPTIONAL SERVICES	SPECIAL DELIVERY	¢
	RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM AND DATE DELIVERED	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		$
POSTMARK OR DATE	JAN 30 1987	

PS Form 3800, Apr. 1976

P 300 226 099

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO Attorney
Joseph D. McCallum Jr.
STREET AND NO.
One Capital Center
P.O., STATE AND ZIP CODE
P.O. Box 1617
Boise, Id 83701

POSTAGE		$
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	¢
OPTIONAL SERVICES	SPECIAL DELIVERY	¢
	RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM AND DATE DELIVERED	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		$
POSTMARK OR DATE	JAN 30 1987	

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- ☑ Show to whom and date delivered..... ¢
- ☐ Show to whom, date and address of delivery.... ¢
- ☐ RESTRICTED DELIVERY
  Show to whom and date delivered..... ¢
- ☐ RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Joseph D McCallum, Jr.
One Capital Center
P.O. Box 1617
Boise Id 83701

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	P300 226099	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐Addressee ☐Authorized agent

4. DATE OF DELIVERY: OCT 15 1982 POSTMARK: OCT 15 1982

5. ADDRESS (Complete only if requested)

JAN 2 6 1987

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

☆GPO : 1979-288-848

53-990

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- ☑ Show to whom and date delivered..... ¢
- ☐ Show to whom, date and address of delivery.... ¢
- ☐ RESTRICTED DELIVERY
  Show to whom and date delivered..... ¢
- ☐ RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
William F. Hellrick
District Counsel
Veterans Administration
P.O. Box 044
Boise Id 83724

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	P300 326 098	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐Addressee ☐Authorized agent

4. DATE OF DELIVERY: OCT 14 1982 POSTMARK: BOISE, ID OCT 14 1982 USPS

5. ADDRESS (Complete only if requested)

JAN 2 6 1987

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

☆GPO : 1979-288-848

53-990

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, and 3 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, $300

U.S.MAIL

REGISTERED

JAN 30 1987

RETURN TO

Department of Water Resources
Western Regional Office

RECEIVED
OCT 19 1982

Idaho Department of Water Resources
(Name of Sender)

Western Region
Statehouse
Boise, Idaho 83720
(Street or P.O. Box)

(City, State, and ZIP Code)

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, and 3 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, $300

U.S.MAIL

REGISTERED

JAN 30 1987

RETURN TO

Department of Water Resources
Western Regional Office

RECEIVED
OCT 19 1982

Idaho Department of Water Resources
(Name of Sender)

Western Region
Statehouse
Boise, Idaho 83720
(Street or P.O. Box)

(City, State, and ZIP Code)

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR)
PERMIT NO. 63-9890 IN THE NAME OF) NOTICE OF HEARING
JAMES A. GOFF) AND/OR CONFERENCE

On April 8, 1982, James A. Goff filed with the Department of Water Resources an application to appropriate the public waters of the State of Idaho. On May 17, 1982, the Department received a protest against approval of said application from Joseph D. McCollum, Jr., Attorney for Boise Warm Springs Water District.

The Department has set the matter of protest for hearing for November 9, 1982, 1:30 p.m. in the Third Floor Conference Room, Department of Water Resources Office, 450 W. State St., Boise, Idaho, 83720. The hearing will be held in accordance with provisions of Chapters 2 and 17, Title 42, and Chapter 52, Title 67, of the Idaho Code and adopted Rules of Practice and Procedure of the Department of Water Resources. Opportunity shall be afforded all parties to respond and present evidence and argument on all issues involved. A pre-hearing conference may be held beginning at the above set time and prior to the hearing.

Dated this 12 day of October, 1982.

DAVID B. SHAW
Western Regional Supervisor

MICROFILMED
JAN 30 1987

CONFERENCE AND HEARING INFORMATION
IN THE MATTER OF APPROVAL OF AN APPLICATION FOR PERMIT

In accordance with Idaho Code, Section 42-203, the following issues are involved in the consideration of the application and protest(s):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purpose intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use conflict with the local public interest?

Any party may request in writing five (5) days before any hearing that the oral proceedings thereof be taken in the form of stenographic notes at the expense of the requesting party. Any party may have such stenographic notes of the oral proceedings, or part thereof, transcribed at his own expense. A taped record of the proceedings will be maintained for the appeal period.

If the hearing is conducted by a hearing officer appointed by the Director, rather than the Director himself, a proposed decision will be submitted to the parties and the parties may be afforded an opportunity to file exceptions to the proposed decision and present briefs and oral agruments to the Director prior to the issuance of a final decision by the Director. This procedure is required by Idaho Code, Section 42-1701A.

The parties by written stipulation may waive their right to a proposed decision, however, the failure of either party to waive a proposed decision will not prejudice the Director's review of a party's evidence and arguments. However, such a waiver will shorten the decision-making process and may expedite substantially the issuance of a final decision. Whether compliance with Section 42-1701A is waived will not affect a party's right to petition for a rehearing of the final decision pursuant to Rule 11 of the Department's Rules of Practice and Procedure or affect a party's right to appeal the final decision to the district court.

Under the provisions of Idaho Code, Sections 42-1701A and 67-5215, any court review of the Department's decision on appeal shall be confined to the record created before the Department.

Failure to appear at the time and place set for hearing by the applicant or protestant(s) may allow the Department to dismiss without prejudice the protest(s) or the application. Any and all cost incurred by reason of such non-appearance may be assessed against such non-appearing parties.

ENCROACHMENT
JAN 30 1987

DBS

Office of District Counsel
550 W. Fort Street
P.O. Box 044
Boise ID 83724
(208) 344-6187

Veterans Administration

September 29, 1982

In Reply Refer To:
347/02

Mr. David B. Shaw
Western Regional Supervisor
Department of Water Resources
Western Region
92 South Cole Road
Boise, Idaho 83709

Re: Geothermal Ground Water Permit; Application No. 63-9890;
Veterans Administration Medical Center;
Request for Hearing On Boise Warm Springs
Water District Protest

Dear Mr. Shaw:

Mr. McCollum, attorney for Boise Warm Springs Water District, and I have been unable to develop a Memorandum of Understanding concerning monitoring criteria for the proposed VA Medical Center, Boise, geothermal well so that the Boise Warm Springs Water District Protest can be resolved.

Therefore, I hereby request that this protest be set for a hearing at your earliest convenience.

Sincerely,

WILLIAM F. HELFRICK
District Counsel

cc: Mr. James A. Goff (531/00)
Medical Center Director
VA Medical Center
Fifth & Fort Streets
Boise, Idaho 83702

Joseph D. McCollum, Jr., Esq.
Hawley, Troxell, Ennis and Hawley
P.O. Box 1617
Boise, Idaho 83701

Nathan H. Little, P.E.
CH2M Hill
700 Clearwater Lane
P.O. Box 8748
Boise, Idaho 83707

MICROFILMED
JAN 30 1987

RECEIVED
OCT 5 1982
Department of Water Resources
Western Regional Office

Office of District Counsel
550 W. Fort Street
P.O. Box 044
Boise ID 83724

(208) 344-6187
FTS 554-7204

DBS

Veterans Administration

August 26, 1982

In Reply Refer To:
347/02

Joseph D. McCollum, Jr., Esq.
Hawley, Troxell, Ennis and Hawley
P. O. Box 1617
Boise, Idaho 83701

Re: Geothermal Ground Water Permit; Application No. 63-9890;
Veterans Administration Medical Center

Dear Mr. McCollum:

I am very concerned with the delays which have taken place in conjunction with our framing of a Memorandum of Understanding, since no action with respect to the withdrawal of the Boise Warm Springs Water District Protest can be accomplished without same.

The original Protest was filed May 20, 1982. Mr. Holland, Chief, VA Medical Center Engineering Service, and I appeared before the Boise Warm Springs Water District Board of Directors on June 15, to fully explain the VA Medical Center's position with respect to the application, and on July 6, Mr. Holland and I met with you to further discuss the terms of the Memorandum. At that meeting you indicated that you would be soliciting input from various geothermal experts on what would the reasonable monitoring criteria to be included in the Memorandum of Understanding.

If I do not see substantial progress towards the resolution of this problem within fifteen workdays we will be compelled to ask the Department of Water Resources to schedule this matter for hearing.

Sincerely,

RECEIVED
SEP 7 1982
Department of Water Resources
Western Regional Office

WILLIAM F. HELFRICK
District Counsel

cc: Mr. James A. Goff (531/00)
Medical Center Director
VA Medical Center
Fifth & Fort Streets
Boise, Idaho 83702

Mr. David B. Shaw
Western Regional Supervisor
Department of Water Resources
Western Region
92 South Cole Road
Boise, Idaho 83709

JAN

Veterans Administration

347/02

Regional Office
Federal Building and U.S. Courthouse
550 West Fort St., Box 044
Boise, Idaho 83724

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Postage and Fees paid
Veterans Administration
VA 601

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DEP 92 94030971 09/03/82
STATE-OF--IDA-WAT-RES
450 W STATE ST
BOISE ID 83702

RECEIVED JAN 20 1987

Mr. David B. Shaw
Western Regional Supervisor
Department of Water Resources
Western Region
92 South Cole Road
Boise, Idaho 83709

42

CONVERSATION MEMORANDUM

DATE 6/16/82

FILE 63-9590

NAME OF PARTY Jim Helfrick

EMPLOYEE David Shaw

RE: Meeting w/ Boise Warm Springs W.D.
They met last night & made progress.
Will be meeting w/ W.D. Attorney McCollum
to draft memo agreement but will take
time due to schedules (10 days - 2 wks).
Will keep us advised of progress. After
draft agreement W.D. board will have to act
on agreement.

MICROFILMED
JAN 30 1991

State of Idaho
DEPARTMENT OF WATER RESOURCES
WESTERN REGION, 92 South Cole Road, Boise, Idaho 83709

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

(Office at the corner of
Franklin and Cole Roads)

(208) 334-2190

May 24, 1982

James A. Goff
VA Medical Center
5th & Fort St.
Boise, ID 83702

Dear Mr. Goff:

Enclosed is a copy of a protest(s) filed against the issuance of a permit pursuant to your Application No. 63-9890. The Department suggests you contact the protestants(s) directly in an effort to determine the nature of the protest(s) and to attempt to resolve the protest(s).

If this office has not been advised within twenty (20) days that the protest(s) has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying the application for permit (Section 42-203, Idaho Code:

1. Will the proposed use reduce the quantity of water under existing water rights?

2. Is the proposed water supply insufficient for the purposes intended?

3. Is the application made in good faith or for delay or speculative purposes?

4. Has the applicant sufficient financial resources with which to complete the project?

5. Will the proposed use under this permit conflict with the local public interest?

If this office can be of further assistance, please contact us.

Yours truly,

DAVID B. SHAW
Western Regional Supervisor

Enc.

MICROFILMED
JAN 30 1987

State of Idaho
DEPARTMENT OF WATER RESOURCES
WESTERN REGION, 92 South Cole Road, Boise, Idaho 83709

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

(Office at the corner of
Franklin and Cole Roads)

(208) 334-2190

May 24, 1982

Joseph D. McCollum, Jr.
HAWLEY TROXELL ENNIS & HAWLEY
One Capital Center
P. O. Box 1617
Boise, ID 83701

Re: Protest of Application for Permit
No. 63-9890

Dear Mr. McCollum:

This office acknowledges receipt of your protest to the issuance of a permit pursuant to the above referenced application. The Department suggests you contact the applicant(s) directly in an effort to determine what is proposed by the application and to attempt to resolve the protest.

If this office has not been advised within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying an application for permit (Section 42-203, Idaho Code):

1. Will the proposed use reduce the quanity of water under existing water rights?

2. Is the proposed water supply insufficient for the purposes intended?

3. Is the application made in good faith or for delay or speculative purposes?

4. Has the applicant sufficient financial resources with which to complete the project?

5. Will the proposed use under this permit conflict with the local public interest?

If this office can be of further assistance, please contact us.

Yours truly,

DAVID B. SHAW
Western Regional Supervisor

MICROFILMED
JAN 30 1987

HAWLEY TROXELL ENNIS & HAWLEY
ATTORNEYS AND COUNSELORS

ROBERT I. TROXELL
JESS B. HAWLEY, JR.
PAUL B. ENNIS
JOHN T. HAWLEY
THOMAS A. MILLER
M. NEAL NEWHOUSE
CRAIG L. MEADOWS
ROBERT L. BILOW
JOSEPH D. McCOLLUM, JR.
WAYNE B. SLAUGHTER, JR.
GARY D. BABBITT
P. CRAIG STORTI
MERLYN W. CLARK
RICHARD F. GOODSON
CARL W. HARDER
PHILLIP M. BARBER
DONALD E. KNICKREHM
EDWIN V. APEL, JR.
KAREN L. LANSING
EUGENE A. RITTI
RICHARD G. SMITH
JOHN F. KURTZ, JR.
P. MARK THOMPSON
LINDA L. HOLDEMAN

ONE CAPITAL CENTER
POST OFFICE BOX 1617
BOISE, IDAHO 83701

TELEPHONE
(208) 344-6000

RECEIVED
MAY 17 1982
Department of Water Resources

May 17, 1982

BY HAND

Department of Water Resources
ATTN: A. KENNETH DUNN, DIRECTOR
450 W. State, Third Floor
Towers Building
Boise, ID 83720

Re: Application No. 63-9890 for geothermal ground water permit -- James A. Goff

Gentlemen:

On behalf of the Boise Warm Springs Water District ("District") we hereby PROTEST the approval of the above-referenced application for a geothermal ground water permit for 2.23 cfs. The District, a quasi-municipal governmental entity, is the owner of hot water producing wells located on its fee lands in Ada County, Idaho, described as follows:

SE¼SE¼SW¼, Section 12, Township 3 North, Range 2 East, B.M.

from which it currently serves approximately 240 properties with hot water for space heating and for other domestic and commercial uses. The District and its predecessors have been serving the residents of east Boise for over eighty years. In the last decade of the 19th century, the District's predecessor in interest acquired its first three water rights, drilled its first wells and commenced commercial operations. These historical water rights, each in the amount of 4.273 cfs, the District still possesses. In addition, the District has been granted 4.0 cfs in Application No. 63-9160, filed in mid 1978 and approved in January of 1980. Accordingly, the District now has water rights totaling 16.819 cfs. The District's current producing wells have a historical capacity of some 1,800 gallons per minute.

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JAN 30 1987

RECEIVED
MAY 20 1982
Department of Water Resources
Western Regional Office

The District is currently participating with the City of Boise in a project known as "Boise Geothermal" funded largely by the United States Department of Energy pursuant to a contract between the City and D.O.E. Further analysis and development of the Boise front's geothermal potential is proceeding under the detailed provisions of this multi-governmental cooperative project. Development of an improved distribution system under this governmental grant is now in the construction phase and within the next few years should greatly enhance the District's ability to provide domestic hot water to many existing structures whose owners have expressed an interest in converting to geothermal space heating.

As you know, the hot water aquifer supplying the District's users and underlying its above-described property and the area in and around the east end of Boise has been tested and is still being tested and studied by various groups and agencies of local, state and federal governments. The flow characteristics and quantum of that aquifer has neither been precisely determined nor defined with sufficient certainty as to assure that drilling and pumping from other wells will not deplete the District's wells.

An interruption or significant diminution of the flow from the District's wells could cause substantial and possibly irreparable damage to the District and to its users. It is also conceivable that the applicant could be substantially damaged by the District's exercise of its prior water rights should the application be granted and the aquifer then not contain a sufficient volume or flow of water to service all water users.

The applicant has no indicated current customers for the water from the proposed wells. Therefore, it must be presumed that the entire project is speculative in nature. We also question whether the applicant has sufficient financial resources to complete a project of the scope contemplated.

Moreover, we respectfully submit that a geothermal application should clearly be distinguished from the typical water application and must be much more closely scrutinized. We suggest that the application may conflict with the local public interest, defined to include the public development of hot water resources by the "Boise Geothermal" participants and by the State of Idaho.

MICROFILMED

JAN 30 1987

The filing of this protest was authorized by resolution of the Board of Directors on May 11, 1982.

HAWLEY TROXELL ENNIS & HAWLEY

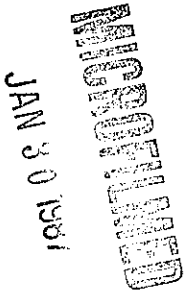
By _____
Joseph D. McCollum, Jr.
Attorneys for Boise Warm
Springs Water District

JDM/vac
cc: Boise Warm Springs Water District
Members of Board of Directors
P. O. Box 114
Boise, ID 83701

RECEIVED
JAN 30 1987

HAWLEY TROXELL ENNIS & HAWLEY
ATTORNEYS AND COUNSELORS
ONE CAPITAL CENTER
POST OFFICE BOX 1617
BOISE, IDAHO 83701

BY HAND



Department of Water Resources
ATTN: A. KENNETH DUNN, DIRECTOR
450 W. State, Third Floor
Towers Bldg.
Boise, ID 83720

63-9890

GOFF, JAMES A

VA MEDICAL CENTER, 5TH & FORT ST., BOISE, ID 83702

Source: GROUNDWATER

Date Filed: 04/19/1982

Amount: 2.23 CFS

Diversion Point: NWSW SESW Sec 02 T 03N R 02E, ADA Co.

Use: HEATING (2.23 CFS) from 01/01 to 12/31

Place of Use: NWSW NESW SWSW SESW Sec 02 T 03N R 02E

Diversion Means: WELLS & PUMPS

MICROFILMED
JAN 30 1987

Medical Center
5th and Fort Streets
Boise, ID 83702

Veterans Administration

RECEIVED
APR 8 1982
Department of Water Resources

RECEIVED
APR 14 1982
Department of Water Resources
Eastern District Office

RECEIVED
APR 15 1982
Department of Water Resources

March 25, 1982

Mr. A. Kenneth Dunn
Director, Department of Water Resources
State of Idaho
Statehouse Tower Building
450 West State Street
Boise, ID 83720

Dear Mr. Dunn:

SUBJECT: Application for Permit; Geothermal Drilling;
VA Medical Center, Boise, ID

I have enclosed our Application for Permit concerning the VA Medical Center's geothermal drilling project. We are filing for the permit as a matter comity, and wish to preserve our right to assert, if necessary, the Supremacy Clause of the United States Constitution (Article VI, Clause 2, U.S. Constitution, March 4, 1789) pursuant to the Reserved Rights Doctrine.

Should you have any questions with respect to the application please contact me at 336-5100, Ext. 351. Thank you for your anticipated cooperation.

Sincerely,

JAMES A. GOFF
Medical Center Director

Enclosure

RECEIVED
JAN 30 1981

RECEIVED
APR 16 1982
Department of Water Resources
Western Regional Office

In Reply Refer To: 531/138

March 25, 1982

Mr. A. Kenneth Dunn
Director, Department of Water Resources
State of Idaho
Statehouse Tower Building
450 West State Street
Boise, ID 83720

Dear Mr. Dunn:

SUBJECT: Application for Permit, Geothermal Drilling,
VA Medical Center, Boise, ID

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Sincerely,

JAMES A. GOFF
Medical Center Director

Enclosure

RECEIVED
JAN 30 1987

531/138

March 25, 1982

Mr. A. Kenneth Dunn
Director, Department of Water Resources
State of Idaho
Statehouse Tower Building
450 West State Street
Boise, ID 83720

Dear Mr. Dunn:

SUBJECT: Application for Permit, Geothermal Drilling,
VA Medical Center, Boise, ID

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Should you have any questions with respect to the application please contact me at 336-5100, Ext. 351. Thank you for your anticipated cooperation.

Sincerely,

JAMES A. GOFF
Medical Center Director

Enclosure

MICROFILMED
JAN 30 1987

531/138