

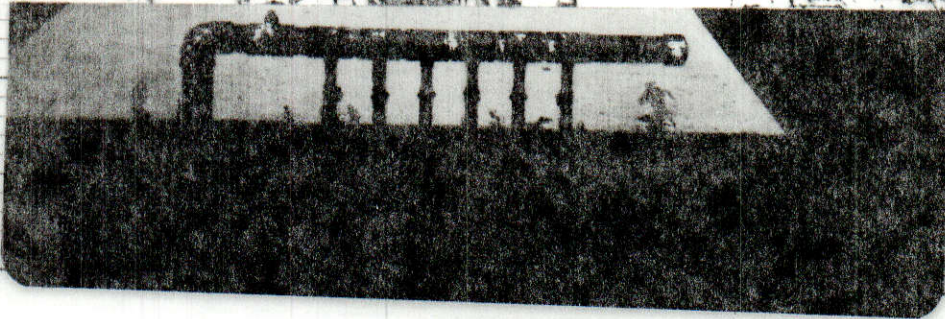
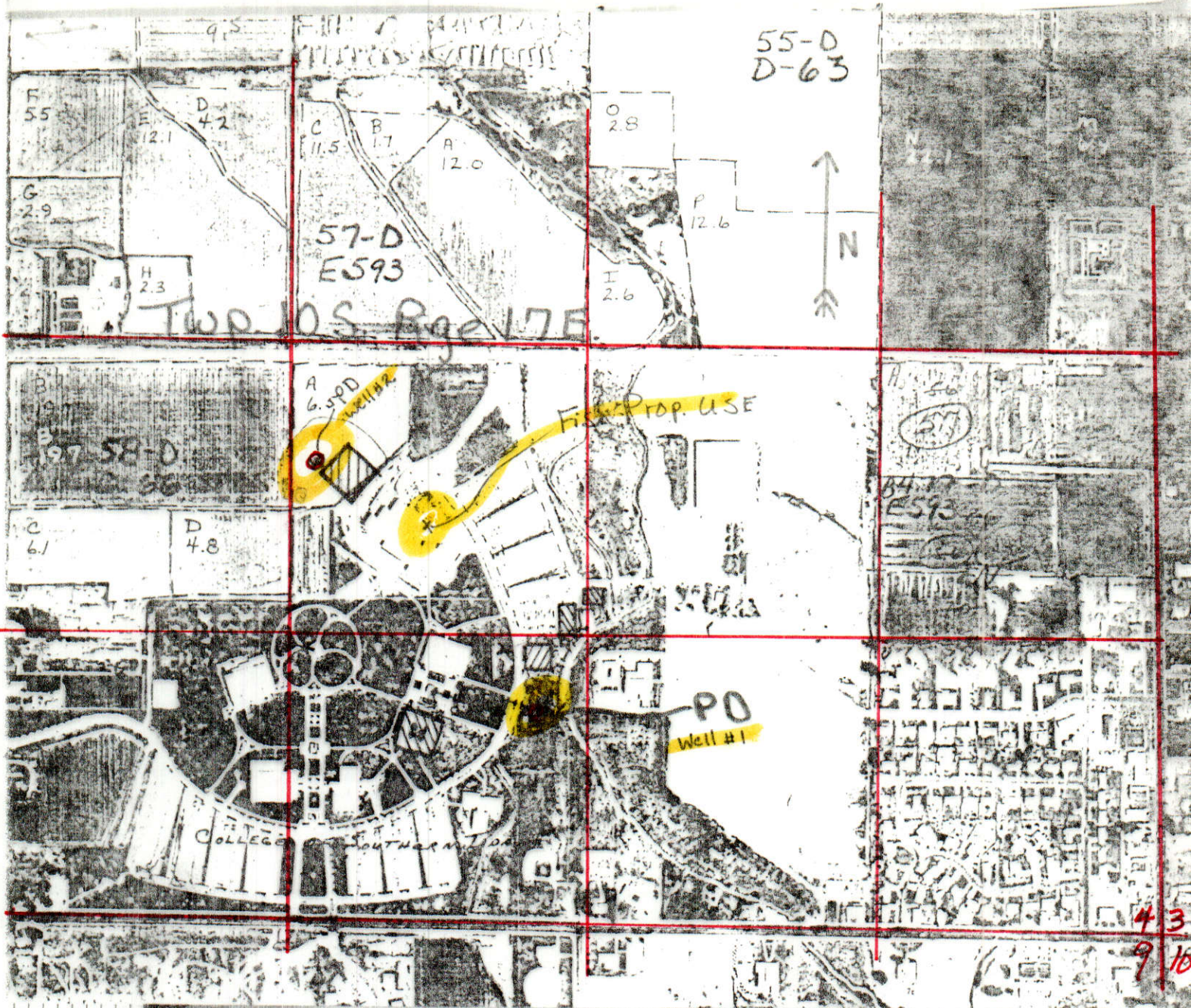
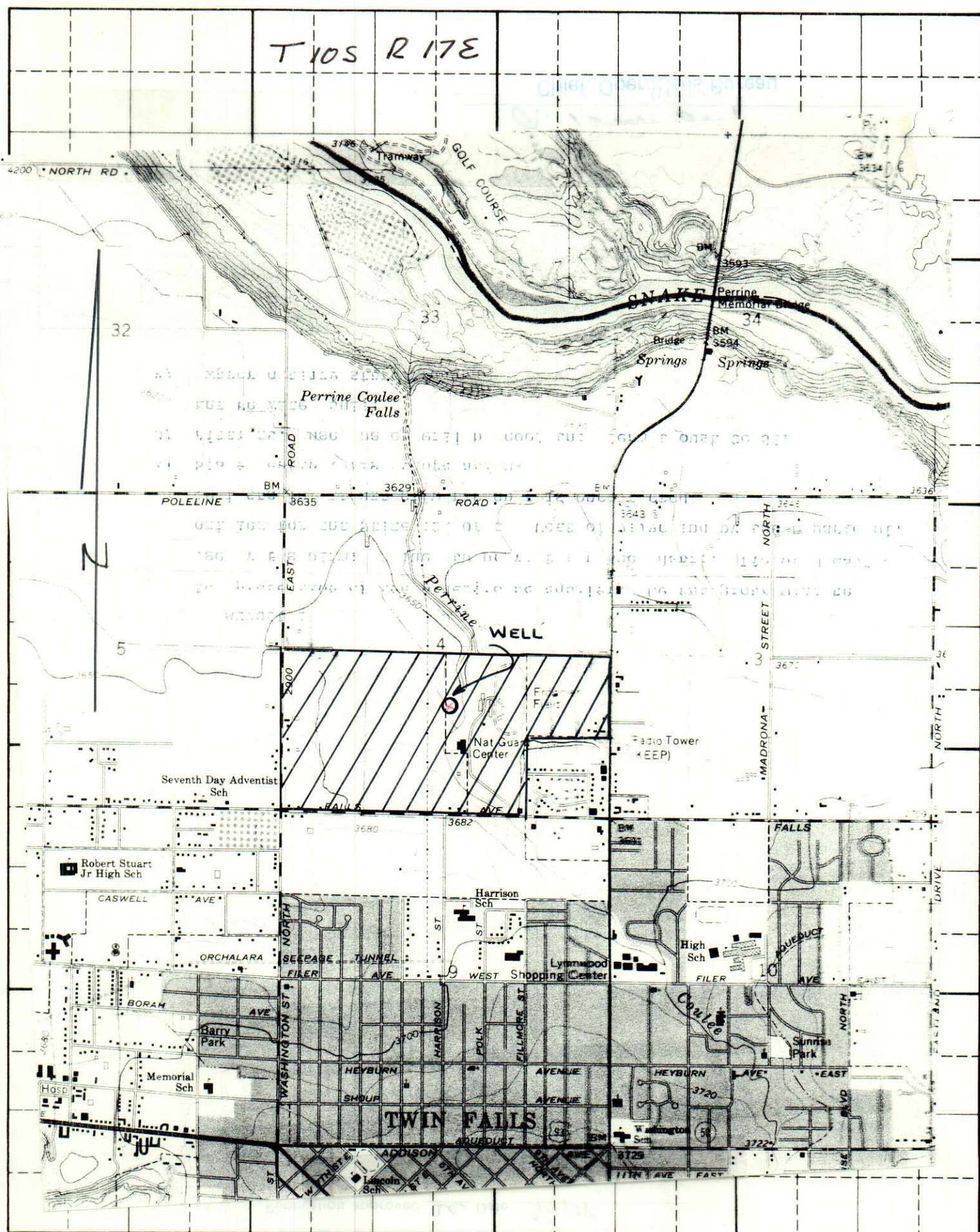


Photo of Diversion & System Attached

☒ Aerial Photo of Place of Use Attached
or Map of Irrigated Acreage Attached

marks The two wells are not presently connected
plans are to connect them in the future. The heat
exchanger in Vo-tech "D" used to preheat the Domestic hot water
the only year-round heating use @ present. See Attached Sheet
calculations. At present geothermal water runs continuously through
exchangers in Vo-tech "D" Plans are to install a thermostatically controlled 10 in.
ommended Amendments

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.

James L Taylor
(Applicant) President

10. Other water rights on these lands 47-7606
11. Other water right diverted from same p.d. 47.7606

12. **Diversion and Delivery System Diagram:** Indicate all major components and distances between components. Indicate measurement port the both upstream and downstream of the diversion systems indicate how



13. ☒ Photo of Diversion & System Attached ☒ Aerial Photo of Place of Use Attached or Map of Irrigated Acreage Attached

14. Remarks The two wells are not presently connected but plans are to connect them in the future. The heat exchanger in Vo-tech "D" used to preheat the Domestic hot water is the only year-round heating use @ present. See Attached Sheet for Calculations. At present geothermal water runs continuously through heat exchangers in Vo-tech "D". Plans are to install Thermostatically Controlled Valves And a closed loop system

15. 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

16. Examiner's/Consultant's Signature Terry A Blum Date 3-14-85
Consultant's License Number _____

IDWR Director's Authorization to Conduct
Beneficial Use Examination Data gathered between 4-17-84 and 3-13-85
Date _____ CONSULTANT SEAL

55-D
D-63

N
22.1

F
5.5

E
12.1

D
4.2

C
11.5

B
1.7

A
12.0

O
2.8

G
2.9

H
2.3

57-D
E593

P
12.6

I
2.6



Twp 10 S. Rge 17 E.

Fish Prop. USE

A
6.50D
well #2

B
9.7
58-D

C
6.1

D
4.8

Greenhouse

Mech Shop + Plumbers Shop

Paint shop
Physical plant

PO
Well #1

COLLEGE OF SOUTHERN IOWA



CSI WARM WATER Aquaculture
Studies facility.

FLOW MEASUREMENT USING ANNUBAR

Pumping Unit: CSI Well # 2

Pipe Measurements: Circumference (C) _____ inches 19.1 27.5
 Wall thickness (T) _____ inches 19.2 27.5
 Inside Radius (R)* _____ inches 19.1 27.5
 Inside Diameter (D) 6.065 inches Sch 40

*R = 0.1592 C-T

Differential Manometer Readings: Left Tube 27.5 inches
 Right Tube 19.1 inches
 Difference (H) 8.4 inches

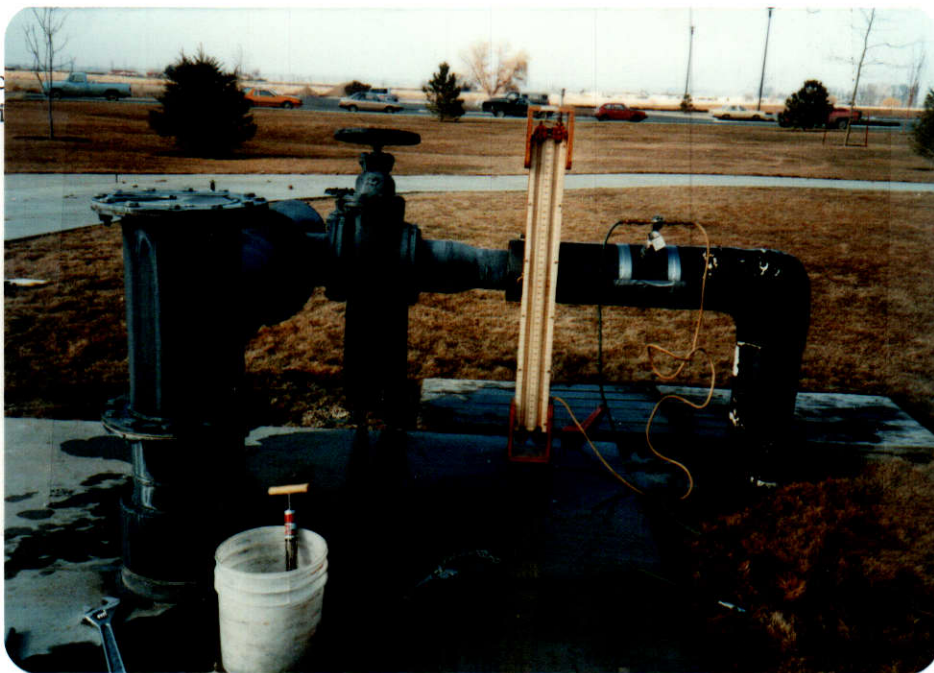
CALCULATION:

$$Q = 3.85 \times (D)^2 \times \sqrt{H} = 410.45 \text{ gpm}$$

$$= \text{gpm}/448.8 = 0.9145 \text{ cfs}$$

Where D and H are measured in inches and
 3.85 is a constant for the Model 75 Annubar.

Sketch
 fitting



from

Remarks: Temp @ inlet in Aquaculture Lab 37.5°C - 99.5°F
" " outlet under bridge 33.5°C - 92.3°F
Outside Air Temp 5.0°C - 41°F

Also Present: Leah Street, Terry Patterson, John Thomas
 measurement made at Approx. 3:30 PM 3-13-85
 Shut-in Pressure 18 PSI

HOT WATER UNIT HEATERS											
PLAN CODE	MEGR.	MODEL	CAPACITY MBH	COIL TYPE (3)	GPM	EWI/EAT	RPM	CFM	HP	POWER	CONTROL
UH-1	TRANE	S-400	66.0	W2-F	20.0	100/65	1100	6017	3/4	480-3-60	Integral
UH-2	TRANE	S-400	66.0	W2-F	20.0	100/65	1100	6017	3/4	480-3-60	Integral
UH-3	TRANE	S-90	13.2	W2-F	5.0	100/65	1550	1162	1/8	120-1-60	Integral
UH-4	TRANE	S-230	33.3	W2-F	8.0	100/65	1100	3200	1/4	120-1-60	Integral
UH-5	TRANE	S-230	33.3	W2-F	8.0	100/65	1100	3200	1/4	120-1-60	Integral
UH-6	TRANE	S-168	22.2	W2-F	5.0	100/65	1100	2267	1/6	120-1-60	Integral
UH-7	TRANE	S-038	5.2	W2-F	2.0	100/65	1550	514	1/20	120-1-60	Integral
UH-8	TRANE	S-230	33.3	W2-F	8.0	100/65	1100	3200	1/4	120-1-60	Integral
UH-9	TRANE	S-230	33.3	W2-F	8.0	100/65	1100	3200	1/4	120-1-60	Integral
UH-10	TRANE	S-230	36.5	W2-F	12.0	100/65	1100	3200	1/4	120-1-60	Integral
UH-11	TRANE	S-260	40.3	W2-F	13.0	100/65	1100	3933	1/2	480-3-60	Remote Wall
UH-12	TRANE	S-090	13.2	W2-F	5.0	100/65	1550	1162	1/8	120-1-60	Remote Wall
UH-13	UNDER ALA FL										
UH-14	UNDER ALA FL										
(3) coils can be high capacity hot water w/steel tubes											

(3) Coils to be high capacity hot water w/ steel tubes

OK - C S
4/10/178

**NOTICE OF APPLICATION
FOR WATER PERMIT**

Notice is hereby given that College of Southern Idaho, Twin Falls, ID. 83301 has on 6/12/78 submitted Application No. 47-7478 for a permit to appropriate 5.00 cubic feet per second of water from ground water by means of well, motor, & pump within the NW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 4, Twp. 10S, Rge. 17E., B.M., Twin Falls County to be used from Jan. 1 to Dec. 31 for space heating and fish propagation for research purposes only within the N $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 4, Twp. 10S, Rge. 17 E., B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Resources, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before July 10, 1978.

C. STEPHEN ALLRED
Director
PUBLISH: June 22 and 29, 1978.

RECEIVED

JUN 30 1978

Department of Water Resources
Southern District Office

MICROFILMED

Affidavit of Publication

STATE OF IDAHO,
COUNTY OF TWIN FALLS

No 7171

I, Nola S. Laughlin ss.
being first duly sworn upon oath, depose and say that I am Proof Clerk of the TIMES-NEWS, published daily, except Saturday, at Twin Falls, Idaho, and do solemnly swear that a copy of the notice of advertisement, as per clipping attached, was published in the regular and entire issue of said newspaper, and not in any supplement thereof, for two consecutive Thursdays, commencing with the issue dated June 22, 19 78, and ending with the issue dated June 29, 19 78.

And I do further certify that said newspaper is a consolidation, effective February 16, 1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the Twin Falls News, published theretofore daily except Monday, both of which newspapers prior to consolidation had been published under said names in said city and county continuously and uninterruptedly during a period of more than twelve consecutive months, and said TIMES-NEWS, since such consolidation, has been published as a daily newspaper except Saturday, under said name in said city and county continuously and uninterruptedly.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each week has been designated as the day on which legal notice by law or by order of any court of competent jurisdiction within the state of Idaho, to be published weekly, will be published; and that at the head of the editorial column of said combined newspapers, and in each issue thereof, Thursday is announced as the day on which said legal notices will be published.

Subscribed and sworn to before me on this June, 19 78 day of June

Nola S. Laughlin
Carolene Jennings
Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho

- N O T I C E -

BEFORE TAKING ACTION ON THIS FILE, PLEASE REFER TO THE
"MORATORIUM AGREEMENT" DATED JULY 22, 1987, COPIES OF WHICH HAVE
BEEN PLACED IN WATER RIGHT FILES 36-7130 AND 47-7606.

10-03-88 lgs

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES



APPLICATION FOR AMENDMENT OF A PERMIT

Department of Water Resources

To change the point of diversion and/or the place of use.

APPROVED

Comes now College of Southern Idaho

of (address) Box 1238, Twin Falls, ID 83301

, and represents to the

Director of the Idaho Department of Water Resources:

That he is the owner and holder of Permit to appropriate the Public Waters of the State of Idaho No. 47-7478, and requests that the permit and permit map be changed as follows:

- (Well # 1)
1. Point of diversion: SE 1/4 SW 1/4, Section 4, Township 10S, Range 17E, B.M.,
(Well #2)
County of Twin Falls. Other points of diversion: NE1/4, SW1/4, Section 4,
Township 10S, Range 17E (Well #2)

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount 5.00 cfs for space heating purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre feet per annum)

Amount 5.00 cfs for fish propagation purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre feet per annum)

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

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

3. Place of use or land to be irrigated:

TWP	RGE	SEC	NE1/4				NW1/4				SW1/4				SE1/4				TOTALS
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	
10S	17E	4									X	X	X	X		X	X		

Total number of acres to be irrigated = N/A

4. a. Who owns the property at the point of diversion? College of Southern Idaho
b. Who owns the land to be irrigated or the place of use? College of Southern Idaho
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: N/A

- Complete the following map by showing land and point of diversion as proposed by this amendment.

Show 40-acre subdivisions, townships, ranges and ditches.

Scale: 2 inches equal 1 mile.

That no one will be injured by such change, and that such change will be made at permit holder's own risk.

Signed at Twin Falls, this 19 day of February, 19 85.

[Signature]
(Signature)

FOR DEPARTMENT USE ONLY

Preliminary check by LH Fee = \$20.00

Received by may Date 7/19/85 # 35282

Publication prepared by _____ Date _____

Published in _____

Publication dates _____

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

I, L. GLEN SAXTON, of the Department of Water Resources hereby
Approve the above referenced Amendment provided the conditions as set forth
on page 4 of Permit No. 47-7478 are met.

Witness my hand this 27th day of February, 19 85.

[Signature]
Chief, Operations Bureau

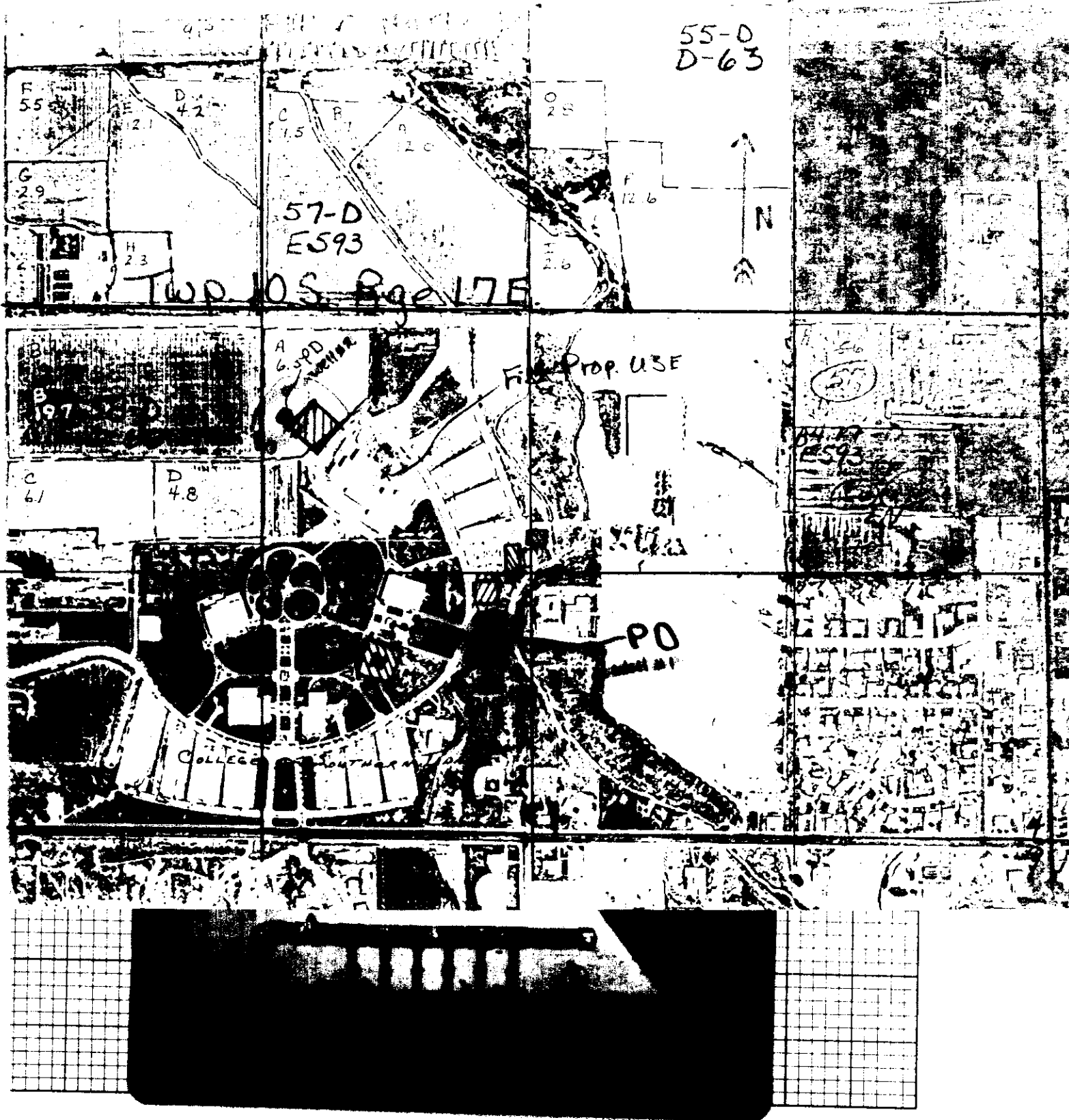


Photo of Diversion & System Attached

☒ Aerial Photo of Place of Use Attached
or Map of Irrigated Acreage Attached

marks The two wells are not presently connected
plans are to connect them in the future. The
system is to turn a 11" pipe preheat the domestic hot water
the only year round heating use is in winter. See diagram for
information. At present geothermal water runs continuously through
exchangers in select "D" Plans are to be made for the
ommended Amendments

Identification No. 47-7478

Application No. _____

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

APPLICATION FOR PERMIT APPROVED

To Appropriate the Public Waters of the State of Idaho
(TYPE OR PRINT IN INK)

1. Name of applicant College of Southern Idaho Phone: 733-9554
post office address Box 1238, Twin Falls, ID 83301

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

3. a. Location of point of diversion is NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 4 Township 10S
Range 17E., B.M. Twin Falls County; additional points of diversion if any: _____

b. If water is not consumed, it will be discharged into Perrine Coulee at a point in NW $\frac{1}{4}$
of SE $\frac{1}{4}$ of Section 4 Township 10S Range 17E., B.M. Twin Falls

4. Water will be used for the following purposes:

Amount 5.00 cfs for Space heat^{ing} purpose from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 5.00 cfs for Fish Prop. purpose from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)

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

5. Total quantity to be appropriated:

a. 5.00 cubic feet per second and/or

b. _____ acre feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Well, motor, and pump.

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

Period of year during which storage will occur _____ to _____ inclusive.
(Mo. Day) (Mo. Day)

c. Proposed well diameter is 20 inches; proposed depth of well is 1700 feet.

7. a. Time required for the completion of the works and application of the water to the proposed beneficial use
is 5 years.

b. Estimated construction cost is \$ 40,000.00.

8. Description of proposed uses:

a. If water is ~~not~~ for irrigation: N $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$,

(1) Give the place of use of water: $\frac{1}{4}$ of $\frac{1}{4}$ of Section 4 Township 10S
Range 17E., B.M.

(2) Amount of power to be generated: _____ hp under _____ feet of head.

(3) List number of each kind of livestock to be watered _____

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

(5) If water is to be used for other purposes describe: To heat College of Southern Idaho
campus buildings and for fish propagation for research purposes only.

MICROFILMED

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

TWP.	RANGE	SEC.	NE1/4				NW1/4				SW1/4				SE1/4				TOTALS
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	

Total number of acres to be irrigated _____

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 College of Southern Idaho

b. Who owns the land to be irrigated or place of use College of Southern Idaho

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing _____

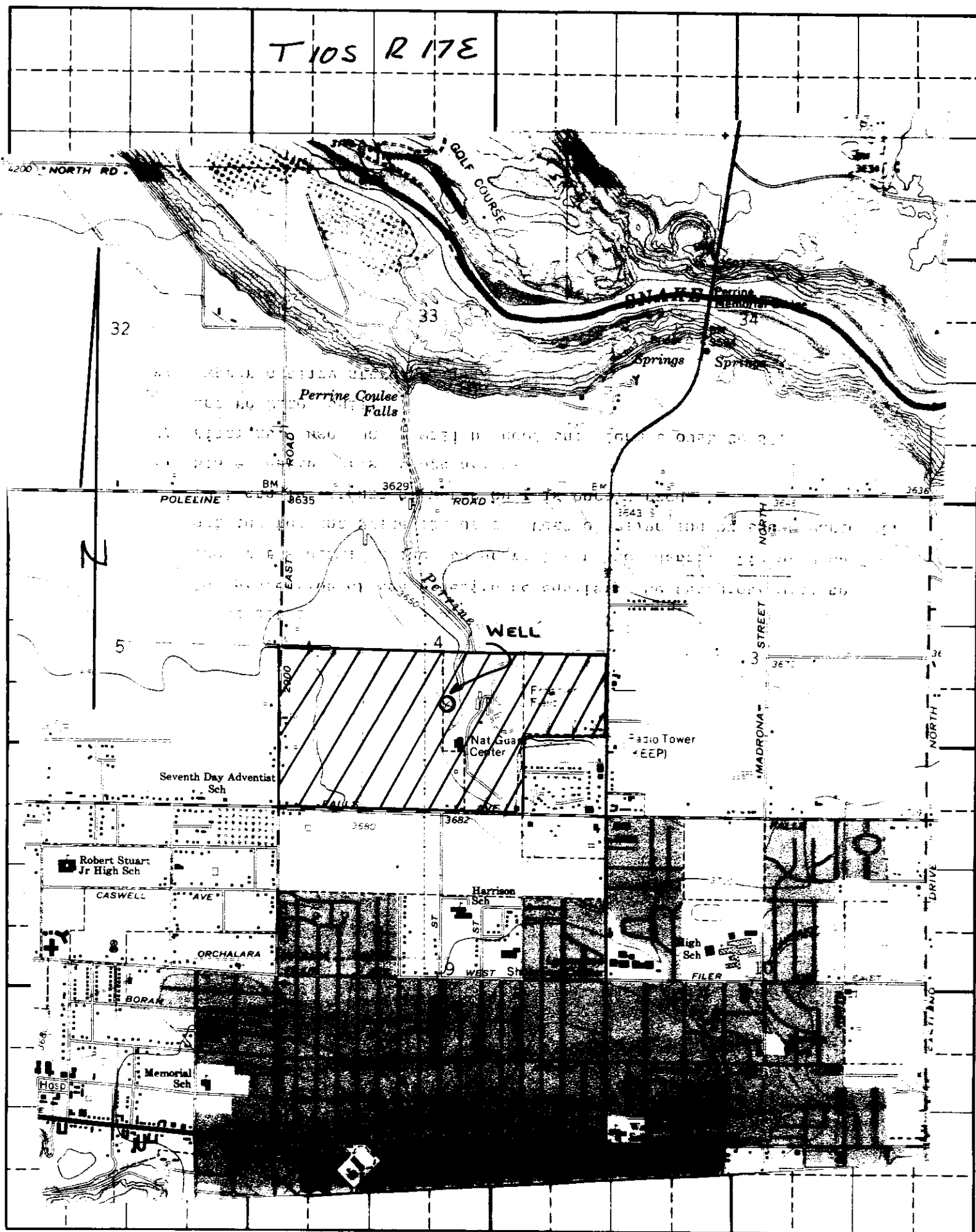
10. Remarks 1) Construction will start with 20" diameter hole cased all the way for protection of the underground aquifer. Cement grout will be used for sealing of the casing to the proper depth. Licensed well driller for the State of Idaho. Control valve and pressure gauge will be installed if artesian pressure is encountered.

2) Space heating, fish propagation.

3) After full use, water will be cool and clean enough to discharge into the Perrine Coulee.

4) Expected temperature is 110° F.

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.

James L Taylor
(Applicant) President

Proposed Priority 6/12/78

Received by AS Date 6-12-78 Time 3:00 PM.

Preliminary check by JP Fee \$ 65.00 #10463

Received by SM Date 6/12/78

Publication prepared by SM Date 6/12/78

Published in Times news

Publication dates 6/22 & 6/29/78

Publication approved AS Date 7/1/78

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for (approval) denial by JP

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. 47-7478, 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 August 1, 19 83.

c. Other: 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.

That should the use of water on this permit reduce the quality of water available to prior water rights and make it unusable to satisfy the prior appropriations, then the diversion under this permit must cease.

Return water shall be treated to insure that the effluent meets intrastate stream water quality standards.

Witness my hand this 11th day of August 19 78.

J. Glen Saxton

Chief, Operations Bureau

MEMORANDUM

DATE: March 28, 1997

TO: Jim Stanton at IDWR Southern Region

FROM: Shelley W. Keen, Boise *SWK*

RE: 47-07478

Thanks for offering to look into this for me. I think it would be great if Gary could try to answer some of the questions Gary Spackman had about the exam for 47-07478 when he does the exam for the other CSI right. It might also be worthwhile to bring Terry into the discussion since he did the exam in 1985. If you or Gary have any questions or thoughts, let me know.

Thanks again for your help.

Jim —

- I can't see why the ext of the moratorium in Twin Falls area would prevent our issuance of a lic.

- Gary's questions of 3-21-89 need to be answered for his purposes if not already answered.

2-22

2-22-93

Sharon Strickland 734-0700

Ascholt Robertson Lucken

36-7762 - Jim/Dr. #2
47-7478

Can they be licensed?
✓ + call to let her know actual status.

MEMORANDUM

TO: Southern Region
FROM: Brenda Chapman *BC*
DATE: May 17, 1994
RE: Re-review of Field Exam for Permit 47-07478
Questions raised by Gary Spackman in 1989

=====

This permit came up on the Exams for Review list. I am enclosing copies of the field exam, Gary's 1989 memo and Jim Johnson's 1993 memo. I would like to know where you are on addressing the questions raised in Gary's memo.

I realize this is an old, difficult one that may not be "hot" on the priority list. I just wanted to see if any action is being taken on this one in case more inquiries are made as to its current status.

MEMORANDUM

Date: February 23, 1993
From: Jim Johnson
Through: Glen Saxton
To: Loren Holmes
Subject: Questions raised by Gary Spackman on water used
under Permit No. 47-07478

=====

The Department recently received an inquiry as to the status of licensing permit no. 47-07478. In responding to the inquiry I found a memorandum written by Gary Spackman to Terry Blau which I could not find a response to. I don't think we can proceed with licensing until a response to the questions are received.

I am sending a copy of the memorandum ^{is field exam} to you I hope you still have a copy of the field examination that Gary sent. If not I will send another copy.



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

47-7478

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

M E M O R A N D U M

DATE: JULY 31, 1992 139338
TO: WATER RIGHT HOLDERS AND APPLICANTS IN TWIN FALLS
LOW-TEMPERATURE GEOTHERMAL MORATORIUM AREA
FROM: NORM YOUNG
RE: EXTENSION OF MORATORIUM

Enclosed is a copy of an order extending the order designating the Twin Falls Low-Temperature Geothermal Moratorium Area. I appreciated the attendance of many of the users at the public information meeting on this matter held in Twin Falls last week. I understood those in attendance favored an extension of the moratorium, and some of the users were encouraging that the size of the area be increased and that additional actions be taken to protect artesian pressures. I indicated at the meeting that the moratorium would be extended without modification to keep its continuity and that IDWR will schedule as time and resources permit a review of the following matters:

- Expansion of the area.
- The need for repair or reconstruction of wells in and adjacent to the area.
- Evaluate the adequacy of the agreement to manage pumpage to prevent withdrawal in excess of the average rate of recharge or to maintain artesian pressures in the public interest.
- Review need for and adequacy of monitoring programs.

With respect to monitoring, the data recorded by the USGS from the well at the Nazarene Church is an important part of the information now being collected. The Church will soon be finished and will be using water from the well. Data from an unused well is more reliable for evaluating aquifer conditions. USGS and IDWR are evaluating alternatives for replacing this source of data. If you are aware of a well that is finished into the low-temperature geothermal aquifer and is not being used, please call Loren Holmes, IDWR Regional Manager at Twin Falls, a call at 736-3033.

MEMORANDUM

TO: Terry Blau, Southern Region
FROM: Gary Spackman *Gary*
DATE: March 21, 1989
RE: Field examination for permit no. 47-7478 in the name of
College of Southern Idaho

I have been reviewing permit no. 47-7478 for licensing. My review has raised several questions about the examination which you could perhaps answer. I have enclosed a copy of the examination for your reference.

1. In the analysis of the fish propagation use, you state that the geothermal flow is mixed with cold water. What is the source of the cold water?

2. The narrative of paragraph 5 on the beneficial use field report states that there are 6 fish propagation tanks plus a round tank. The measurement calculations contained in paragraph 1 of the licensing report only show measurement of flow into 3 tanks and the round tank. Is the water beneficially used in the other 3 tanks? In addition, were the flows measured while water was flowing through all 3 tanks at the same time?

3. The place of use for the fish propagation and the heating uses is not identified separately for each use. There are simply 3 X's in the place of use grid. Please distinguish between the fish propagation place of use and the heating place of use.

4. Attachment 1 contains calculations to determine the flow of the geothermal water. It appears that a direct relationship between the domestic hot water and the geothermal water used for heating was assumed.

The method of measuring the flow of the domestic hot water is unclear. I am not certain whether the flows were measured individually, with no other water running, or whether the 2 faucets were running at the same time.

A proportional relationship was developed between the geothermal water and the domestic hot water. The relationship developed was:

$$T_d Q_d = T_g Q_g$$

T_d =temperature of domestic water
 Q_d =flow rate of domestic water
 T_g =temperature of geothermal water
 Q_g =flow rate of geothermal water

The actual equation which was used to calculate the geothermal flow was:

$$12.8^{\circ} \text{ C} \times 10.8 \text{ gpm} = 18^{\circ} \text{ C} \times Q_g \quad \text{OR}$$

$$Q_g = \frac{12.8 \times 10.8}{18} = 7.68 \text{ gpm}$$

With some inspection, I think you will find that the relationship developed above does not account for losses in the heat exchanger. In fact, if the change in temperature for both the hot water and the cold water was the same, the same flow rate for both the geothermal water and the domestic water would be obtained. As it is, a lesser amount of flow has been calculated because of the higher change in temperature of the geothermal water. I believe the relationship you have developed assumes 100% efficiency. In other words, when the temperature change of the geothermal water exceeds the temperature change of the domestic hot water, for every extra degree lost, there is a linear reduction in the geothermal flow rate required. The relationship does not account for heat transfer losses in the heat exchanger which, in my rough estimation, cannot be above 50-70%.

I do not know a better way to calculate the geothermal water used to heat the domestic water. Perhaps the geothermal flow should be measured. I'd be happy to discuss further if necessary.

5. The examination infers that all the water from well #2 flows through the vo-tech "D" building? What about the other well? Are the fish propagation and the water heating uses also provided water solely from well #2?

6. A volume of water must be designated for each use. I am particularly concerned about the heating volume which was calculated by multiplying the instantaneous flow of 1.21 cfs by 259 days. I question whether 620.5 acre-feet is necessary for heating. It seems to me that only approximately 180 days of the year or less require diversion of the hot water for heating purposes. I also wonder whether continuous diversion is necessary. Perhaps if the University has volume accumulation flow meters, this quantity could be taken from records of the college.

If you can respond to my questions, we will proceed to license as soon as possible.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

RECEIVED

JUN 3 1985

Permit No.

47-7478

Department of Water Resources

1. Measurement Calculations

a) Field Measurement Calculations (Include theoretical capacities and system capacity)

Fish raising facility Flow Measurements

$$0.68 \text{ gal. cont. \#1 } \frac{\text{Time to fill}}{5.9 \text{ sec.}} \cdot 60 \frac{\text{sec}}{\text{min}} = 6.92 \text{ gpm}$$

$$\#2 \quad 3.43 \text{ sec.} \quad 0.68 \text{ gal.} \times \frac{60 \text{ sec/min}}{3.43 \text{ sec}} = 11.90 \text{ gpm}$$

$$\#3 \quad 3.70 \text{ sec.} \quad 0.68 \text{ gal.} \times \frac{60 \text{ sec/min}}{3.70 \text{ sec.}} = 11.03 \text{ gpm}$$

$$\text{Round Tank } 2.72 \text{ sec.} \quad 0.68 \text{ gal.} \times \frac{60 \text{ sec/min}}{2.72 \text{ sec.}} = 15 \text{ gpm}$$

See Attachment #1 for Dom. Hot Water Heating
See Attachment #2 for Flow totals
Total = 44.85 gpm (cont. under 2 c Below)

#3 for Annubar Meas. of well #2

b) Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

See Attachment 2 for Space Heating Volume

c) Volume Calculations for Other Uses: $0.02 \text{ cfs} \times 1.98 \frac{\text{ft}^3}{\text{sec}} \times 106 \text{ days} = 4.20 \text{ AF/ANN}$

$$\text{Fish Raising Facilities } 13.5' \times 3.5' \times 1.3' \times 6 = 368.55 \text{ C.F.}$$

$$\pi 2.5^2 \times 3' = 58.9 \text{ C.F.}$$

$$\text{Total} = 427.45 \text{ C.F.}$$

Buildings heated	Sheilds	Maintenance	Paintshop	Mechanic Shop	Greenhouse	V.T.D.
Square Ft. Area "	55485	5748	450	2546	1360	28819
TOTAL S.F. heated = 94,408						

2. Overlap Review

a) Other water rights with same place of use: 47-7606

b) Other water rights with same point of diversion: 47-7606

c) Analysis: Water Right 47-7606 will be used for expansion of The geothermal heating system at CSI as well as a possible expansion of The fish raising facilities for aquaculture studies.

Geothermal water used in Aquaculture Facility

KNOWN: Source T = 29°C, Cold water T = 16°C

Mixed flow is 44.85 gpm, mixed flow T = 26.7°C

$$16x + 29y = (26.7) 44.85$$

$$x + y = 44.85$$

$$16(44.85 - y) + 29y = 26.7(44.85)$$

$$717.60 - 16y + 29y = 1197.5$$

$$13y = 479.90 \quad 479.90$$

$$y = 36.92 \quad 36.92$$

$$x = 44.85 - 36.92 = 7.93 \quad 7.93$$

X = Cold water

Y = Warm water

Geothermal Flow: 36.92 gpm ≈ 0.08 cfs. Amt used for Aquaculture

RECOMMENDED AMOUNTS

- | | | | | | | |
|----|-------------------|-----------------|---------------|------------------|-----------------------------|------------------------|
| 3. | Permit No. | Priority | Amount | App. Date | Date Proof Submitted | System Capacity |
| | | | | | | |

4. Permit Holder: College of Southern Idaho

Address: P.O. Box 1238, Twin Falls, ID. 83301

5. Source: Groundwater tributary to _____

[illegible]

Fish Propagation JAN.1 Dec.31 0.08 cfs 427 cu. Ft.

Heating (Space) Sept. 15 May 31 1.21 CFS 620.5^{°F}/ANN

Heating (Water) JUN. 1 Sept. 14 0.02 cfs 4.20 AF/Ann

Allowable Maximums: 1.21 cfs 624.2 AF/ANN.

7. Point(s) of Diversion:

[illegible]

8. Place(s) of Use

[illegible]

9. Recommended Conditions/Remarks: Annubar meas. was attempted at well #1

but There was insufficient straight flow for good measurement Therefore flows were measured with calibrated container & stop watch at out flows.

Well water presently by passes Heating units in Vo-tech "D" building when they are not operating. Make up air units are not used very often at present. Recommended Condition

Water bypassing heating units in excess of that required to maintain water Temp. shall not be considered beneficial use.

10. 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

11. Examiner's Signature Larry A. Blair

Checked in Regional Office by Alfred Martin

Approved in State Office by _____

Date 3-18-85

Date 4/11/85

Date _____

Department of Water Resources

Permit No. 47-7478
Phone No. 733-9554

1. Owner: College of Southern Idaho Phone No. 733-9554
Current Address: PO Box 1238, Twin Falls, ID, 83301

2. Accompanied by: Don Buettner & Bob McManaman EXAM. DATE: 4-17-84
Address: _____ Phone No. _____

Relationship to Permit Holder: Employees

3. Source: Groundwater tributary to _____

Well/Diversion* No.	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code with points of diversion, system diagram & photos on reverse side. Disregard if only one.

5. System Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Two Flowing Warm water wells 12"x2220' and 20"x1480' pipelines to place of use. The research fishery has (6) 13.5'x3.5' Tanks with water 1.3' deep and (1) 5' dia Tank with water 3' deep. 5 buildings are heated by forced air across heat exchanger, 1 by baseboard radiator and one by Heat pump.

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

7. Measurements ☐ Additional data/computation sheets attached

Flow measurements were made by Dr Marvin Strope at the time wells were completed using container + stopwatch. His measurements were 900 gpm for well #1 and 1440 gpm for well #2. See attached sheet and licensing report for measurements used to determine amt. allowed

8. Point(s) of Diversion:	Indicate Method of Determination
---------------------------	----------------------------------

[illegible]

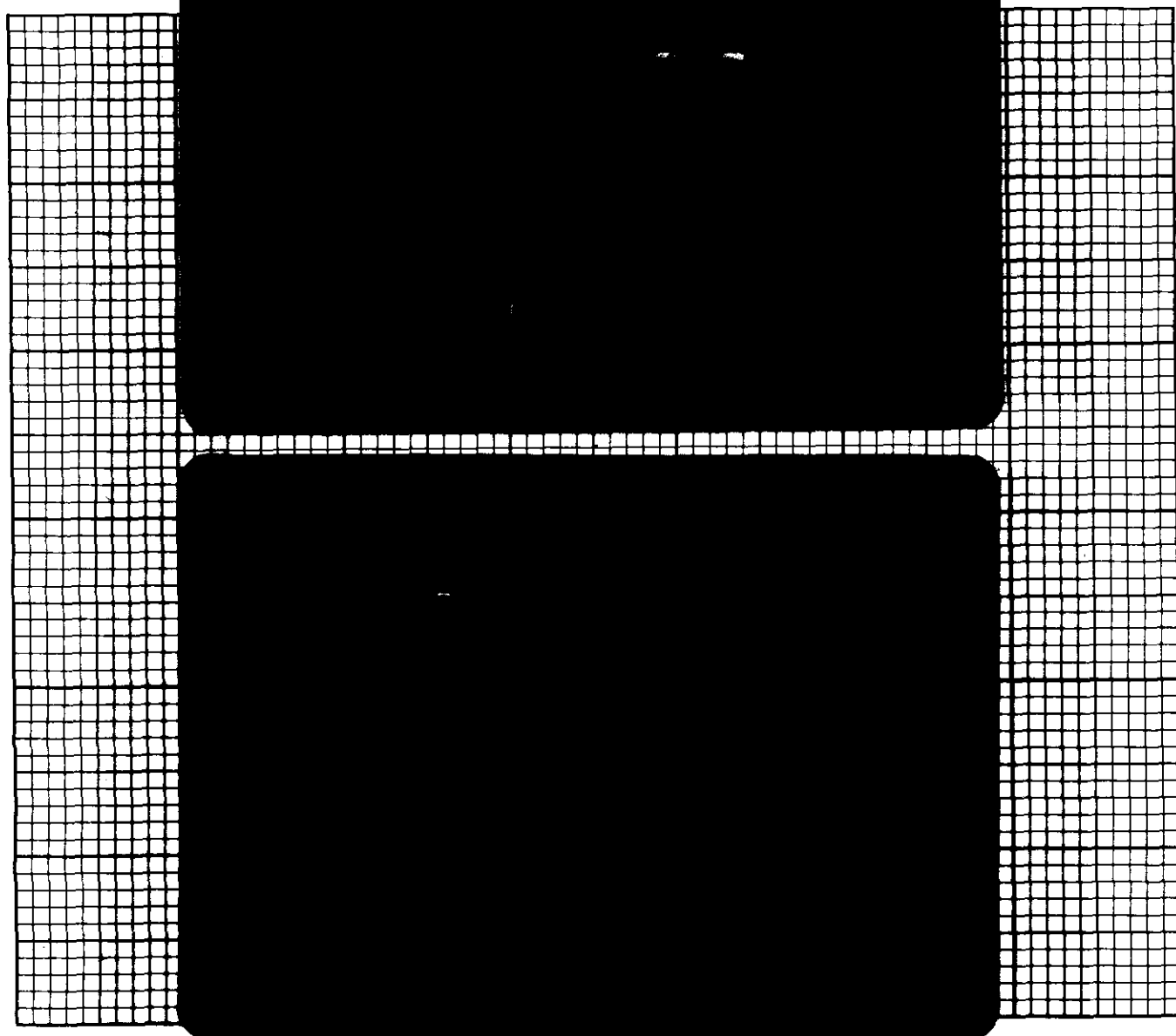
9. **Place(s) of Use:** Irrigation - give acres served by system at time of exam.
Indicate Method of Determination _____

Phase(3) 3/2000

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals	
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4		
10 S	17 E	4										X				X		X		
Total Acres _____																				

10. Other water rights on these lands 47-7606
11. Other water right diverted from same p.d. 47.7606

12. **Diversion and Delivery System Diagram:** Indicate all major components and distances between components. Indicate measurement point the distance both upstream and downstream of the diversion systems indicate how



13. ☒ Photo of Diversion & System Attached

- ☒ Aerial Photo of Place of Use Attached or Map of Irrigated Acreage Attached

14. Remarks The two wells are not presently connected but plans are to connect them in the future. The heat Exchanger in Vo-Tech "D" used to preheat the Domestic hot water is the only year-round heating use @ present. See Attached sheet for Calculations. At present geothermal water runs continuously through heat exchangers in Vo-Tech "D". Plans are to install Thermostatically controlled valves and a closed loop system.

5. Recommended Amendments

- ☒ Change P.D. as reflected above
☐ Change P.U. as reflected above

- ☒ Add P.D. as reflected above
☐ Add P.U. as reflected above

- ☐ None
☐ Other

6. Examiner's/Consultant's Signature Terry A. Blum Date 3-14-85

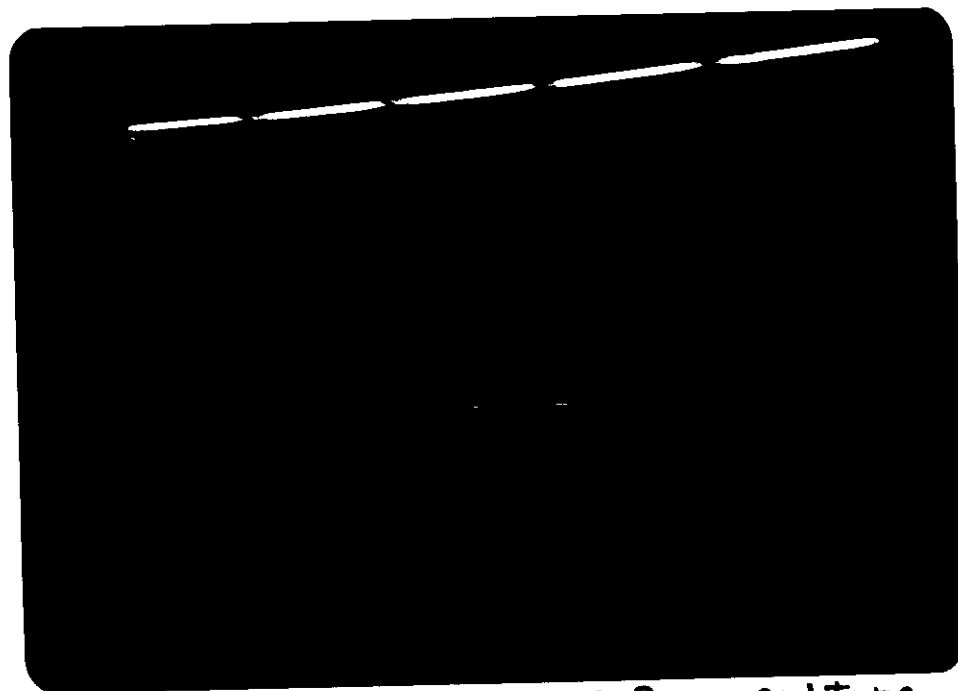
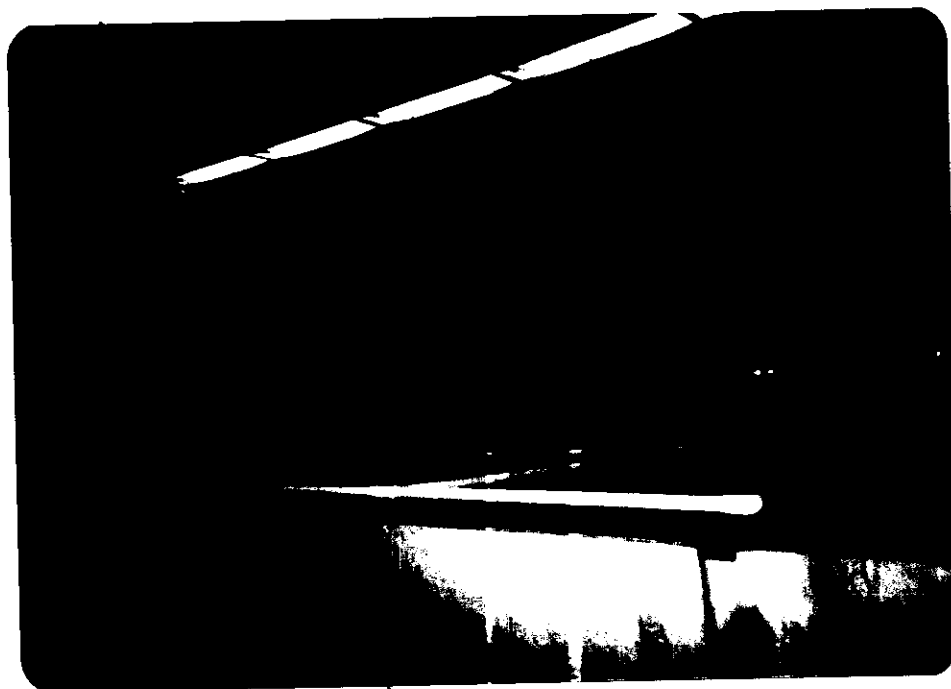
Consultant's License Number _____

IDWR Director's Authorization to Conduct

Beneficial Use Examination Data gathered between 4-17-84 and 3-13-85

Date

CONSULTANT SEAL



CSI WARM WATER Aquaculture
Studies facility.

Attachment #1 47-7478

Heat exchanger in Votech "D" Building
Bell & Gossett Type WU Shell + Tube Model 9W465-22
Temp + Flow meas 11-1-84 Am geothermal H₂O in 98.6°F (37°C)
with Kitchen using max. hot water

Domestic H₂O out 70°F 21°C

Domestic H₂O in 57.2°F (14°C)

geothermal H₂O out 80.6°F 27°C

Flow meas Domestic Hot Water (Q_{dom})

Faucet #1 22.9 sec./gal @ 60 ^{sec}/min = 2.6 gpm

Faucet #2 7.3 sec./gal @ 60 ^{sec}/min = 8.2 gpm

TOTAL 10.8 gpm x 60 ^{min}/hr = 648 gph

$$\frac{\Delta T_{\text{dom}} \times Q_{\text{dom}}}{\Delta T_{\text{geo}}} = \frac{\Delta T_{\text{geo}} \times Q_{\text{geo}}}{\Delta T_{\text{geo}}}$$

$$\Delta T_{\text{dom}} = 70^\circ\text{F} - 57.2^\circ\text{F} = 12.8^\circ\text{F}$$

$$\Delta T_{\text{geo}} = 98.6^\circ\text{F} - 80.6^\circ\text{F} = 18^\circ\text{F}$$

$$Q_{\text{geo}} = \frac{12.8 \times 10.8}{18^\circ\text{F}} = 7.68 \div 448.8 \frac{\text{gpm}}{\text{cfs}} = 0.017 \text{ cfs}$$

Heating Domestic Water

Allow 0.02 cfs

Geothermal water used to Heat Vo-tech "D."

Valve set ON Setting required to keep building warm in coldest weather last year 1983-84.

Total out flow from Bldg. 33 gal in 7 sec

$$= \frac{60 \text{ sec}}{7 \text{ sec}} \times 33 \text{ gal} = 282.86 \text{ gpm}$$

7 sec

- 7.68 gpm for water heating

- 44.85 gpm discharge from Aquaculture facility

230.33 gpm Amt used for heating Vo-tech "D"

$$\frac{230.33 \text{ gpm}}{448.8} = 0.51 \text{ cfs}$$

This flow did NOT consider water

Needed by Make-up air units.

See Appendix

CSI Geothermal Heating System

11-84 by T&B

Building	Well No.	Area sq ft	Flow (gpm)		Type of heating	Est Heat Load Req (Btu/hr)
			Design ⁽¹⁾	Meas. ⁽²⁾		
Shields	1	55,485	(30)	86 ⁽³⁾	Heat Pump	750,000
Maintenance	1	5,748	25	(23.5)	Unit heaters	136,520 ⁽⁴⁾
Paint Shop	1	450		(15.6)	Baseboard (Fin Type)	15,000 ⁽⁶⁾
Plumber Shop	1	1080	(15)	49.6 ⁽⁵⁾	Unit heaters	17,065 ⁽⁶⁾
Mechanic Shop	1	889	(15)		Unit heaters	17,065 ⁽⁶⁾
Greenhouse	1	1360	40	(35.8)	Unit heaters	76,000 ⁽⁶⁾
Vo-tech "D"	2	28,819	553	(410.4) ⁽⁸⁾	See attached sheets	2,643,350 ⁽⁷⁾
Total		93,831	678	620.9		3,655,000 ^{Btu/hr}

Amt. Allowed for Space Heating are Amts Circled: (545.3 gpm) = 121 cfs

$$\text{Max Vol}_{\text{Space Heating}} = 121 \text{ cfs} \times 1.98 \frac{\text{AF}}{\text{cfs day}} \times 259 \text{ days} = 620.5 \text{ AF}^*$$

* See ITEM 9 ON Licensing Report

(1) Cumulative sizes of flow control valves serving heating units in Building.

(2) Measurements made of outflow with calibrated container + stop watch

(3) Discharge also includes 40 gpm used for corrosion test and a 3/4" bypass pipe

(4) No Flow Control Valves presently in use

(5) Flow control valve in Plumbers shop has been temporarily removed.

(6) Heat Load req. est. from capacity of previously used electric heaters.

(7) Cumulative total of capacities of individual heating units.

(8) Measurement made with Annubar at access port on well #2

FLOW MEASUREMENT USING ANNUBAR

Pumping Unit: CSI Well # 2

Pipe Measurements: Circumference (C) _____ inches
 Wall thickness (T) _____ inches
 Inside Radius (R)* _____ inches
 Inside Diameter (D) 6.065 inches

19.1 27.5
 19.2 27.5
 19.1 27.5

*R = 0.1592 C-T

Differential Manometer Readings: Left Tube 27.5 inches
 Right Tube 19.1 inches
 Difference (H) 8.4 inches

CALCULATION:

$Q = 3.85 \times (D)^2 \times \sqrt{H} = 410.45 \text{ gpm}$
 $= \text{gpm}/448.8 = 0.9145 \text{ cfs}$

Where D and H are measured in inches and
 3.85 is a constant for the Model 75 Annubar.

Sketch
 fitted



Remarks: Temp @ inlet in Aquaculture Lab 37.5°C - 99.5°F
" " outlet under bridge 33.5°C - 92.3°F
Outside Air Temp 5.0°C - 41°F

Also Record Water Street Temp Station John Thomas
 Measured at 10:00 AM on 12-15-75
 Static Pressure 18 PSI

BELL & GOSSETT

Attachment # 4 47-7478 Lis Rep.

SUBMITTALC-131.1
REVISION 4**6" Series
Type "WU"
Heat Exchangers****"U" Tube Design**

UNIT used to preheat clams in water in 10 hrs. D

JOB

B & G REPRESENTATIVE

UNIT TAG NO.

ORDER NO.

DATE

ENGINEER

SUBMITTED BY

DATE

CONTRACTOR

APPROVED BY

DATE

DESCRIPTION

B&G "WU" Heat Exchangers are of the shell and tube type. The tube bundle is of "U" bend construction with tube ends expanded into a stationary tube sheet. This construction permits ample expansion or contraction for wide temperature variations. A fluid entering the tubes is heated or cooled by a fluid being circulated through a baffled shell. The unit is designed primarily for pumped circulation through the shell.

Standard "WU" Heat Exchangers are constructed according to A.S.M.E. requirements for pressures and temperature noted in table on the rear. A Manufacturers' Data Report for Pressure Vessels, Form No. U-1 as required by the provisions of the A.S.M.E. Code Rules is furnished with each unit upon request.

This form is signed by a qualified inspector, holding a National Board Commission, and who is employed by an authorized inspection agency, certifying that construction conforms to the latest A.S.M.E. code for pressure vessels. The A.S.M.E. "U" symbol is stamped on each vessel.

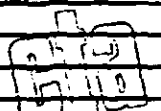
RECOMMENDED "WU" HEAT EXCHANGERMODEL NO. OWU65-22HEATING SURFACE (SQ. FT.) 22.1**OPERATING DATA****TUBE SIDE SHELL SIDE**

1. Fluid Circulated.....
2. Total Flow* (*Expressed in GPM, GPH, or lbs./hr.) 450 GPH
3. Temperature In/Out..... 45 / 80
4. Transfer BTU/hr.....
5. Pressure Drop (Maximum).....
6. Fouling Factor or Percentage of Additional Surface.....
- Note: Following applies only for fluids other than water
7. Specific Gravity.....
8. Specific Heat.....
9. Latent Heat.....
10. Viscosity**.....
11. Thermal Conductivity.....

**Expressed in Proper Units and Temperature such as centipoise @ °F.

APPROVALS☐ NOT APPROVEDAPPROVED AS CORRECTED
DATE: 8-12-80
BY: [Signature]

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for design and to be verified at the job site for information to the fabrication processes or to technical specifications; and for coordination of the work of all trades.

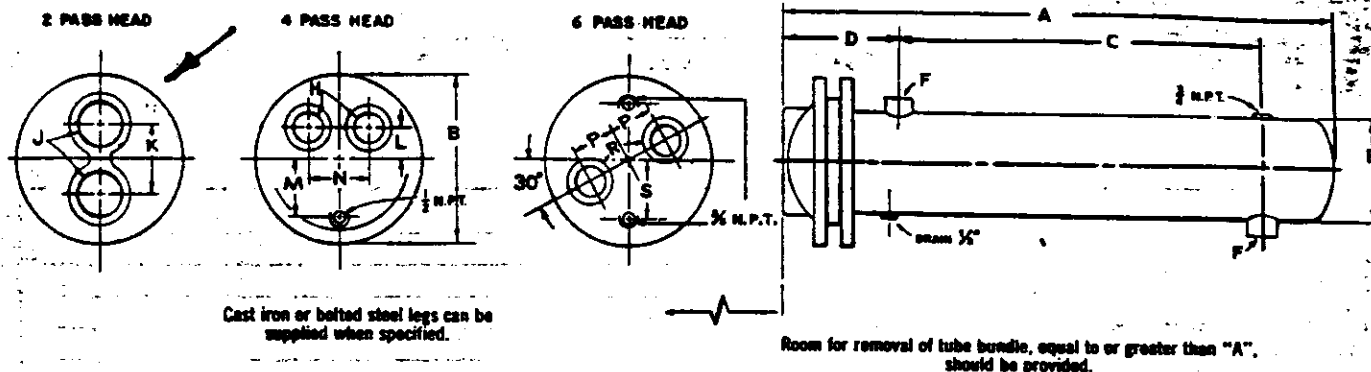


ARCHITECTS ENGINEERS

1500 Poly Drive P.O. Box 1454
Billings, Montana 59103
One Capital Center - Suite 710
999 Main Street, Bozeman, Idaho 83702

BELL & GOSSETT **ITT**
FLUID HANDLING DIVISION

6" Series TYPE "WU" HEAT EXCHANGERS ("U" Tube Design)



DIMENSIONS

Complete sales number consists of example: WU66-43

Legend:
 "WU" type "U" tube
 Shell diameter in inches
 Tube bundle length in feet
 Number of tube passes
 Baffle spacing in inches

UNIT NUMBER			DIMENSIONS IN INCHES															HEATING SURFACE (SQ. FT.)			APPROX. SHIPPING WT. (LBS.)
			2 PASS		4 PASS			6 PASS			2, 4 AND 6 PASS										
2 PASS	4 PASS	6 PASS	J	K	H	L	M	N	P	R	S	A	B	C	D	E	NPT F	2 Pass	4 Pass	6 Pass	
WU63-23	WU63-43	WU63-63	2 NPT	3 3/4	1 1/2 NPT	1 1/2	2 1/4	3 3/4	2 1/2	1 1/2 NPT	2 1/4	40 3/4	10 3/4	27 1/2	6 3/4	6 3/4	2 1/2	12.7	9.6	125	
WU64-23	WU64-43	WU64-63	2 NPT	3 3/4	1 1/2 NPT	1 1/2	2 1/4	3 3/4	2 1/2	1 1/2 NPT	2 1/4	52 1/2	10 3/4	39 1/2	6 3/4	6 3/4	2 1/2	17.4	13.1	150	
~~WU65-23~~	~~WU65-43~~	~~WU65-63~~	2 NPT	3 3/4	~~1 1/2 NPT~~	~~1 1/2~~	~~2 1/4~~	~~3 3/4~~	~~2 1/2~~	~~1 1/2 NPT~~	~~2 1/4~~	64 3/4	10 3/4	51 1/2	6 3/4	6 3/4	2 1/2	22.1	~~16.7~~	175	
WU66-23	WU66-43	WU66-63	2 NPT	3 3/4	1 1/2 NPT	1 1/2	2 1/4	3 3/4	2 1/2	1 1/2 NPT	2 1/4	76 3/4	10 3/4	63 1/2	6 3/4	6 3/4	2 1/2	26.8	20.2	200	
WU67-23	WU67-43	WU67-63	2 NPT	3 3/4	1 1/2 NPT	1 1/2	2 1/4	3 3/4	2 1/2	1 1/2 NPT	2 1/4	88 3/4	10 3/4	75 1/2	6 3/4	6 3/4	2 1/2	31.5	23.8	225	
WU68-23	WU68-43	WU68-63	2 NPT	3 3/4	1 1/2 NPT	1 1/2	2 1/4	3 3/4	2 1/2	1 1/2 NPT	2 1/4	100 3/4	10 3/4	87 1/2	6 3/4	6 3/4	2 1/2	36.2	27.3	250	

MATERIALS

DESIGN PRESSURES—A.S.M.E. CONSTRUCTION CAST IRON & BRASS UNITS

PART	STANDARD CAST IRON UNIT	BRASS UNIT
	2, 4 & 6 Pass	2 & 4 Pass
Shell	Steel	Steel
Head	Cast Iron	Cast Brass
Tubes 3/4" O.D.	Steel	Copper
Tube Sheet	Steel	Rolled Naval Brass
Baffles	Steel	Steel
Nuts & Bolts	Steel	Steel

DESIGN PRESSURES*				DESIGN TEMPERATURES*	
TUBE SIDE		SHELL SIDE		TUBE & SHELL SIDE	
DESIGN	TEST	DESIGN	TEST	CAST IRON	BRASS
150 psi	300 psi	150 psi	300 psi	375 F	300 F

*For design pressures and temperatures higher than shown, consult B & G Representative for specifications and dimensions.

Caution:

A properly sized relief valve must be installed on the heated water side to protect heat exchangers from possible damage due to volumetric expansion.

X

DIVISION 15
MECHANICAL

- b) For floors with concrete or wood finish
Model: 4020-U
Finish: NB
Size: 2" 3" 4"
Plug: Lekcromate

- 4) Floor Cleanouts, (F.C.O.)
a) For floors with quarry tile.
Type: Tile
Model: 4040-U
Finish: NB
Size: 2" 3" 4"
Plug: Lekcromate

5) Grade Cleanouts, (G.C.O.), for exterior installation in storm, soil or waste lines complete with CI soil pipe extension to grade, tractor type cover with color coded and indexed "Delrin" taper thread plugs.

Type: Sanitary Sewer
Model: 4243 less plug
Finish: PB CI
Size: 4"
Plug: P-4470
Plug Color: Orange
Plug Index: "Sanitary"

See Standard Installation Detail on Drawings.

15B-14. HOT WATER HEATERS

a. Hot Water Heater No. 1

1) Heater: Shall consist of one Bell and Gossett Type WU Exchanger Model No. QWU-65-22 having 23.8 square feet of heating surface, for heating 450 GPH from 45 degrees F. to 80 degrees F. Heater shall have 3/4", 18 ga. 316 stainless steel tubes, 316 stainless steel tube sheets and cast iron head, and bundle support insulated from dissimilar metals. The heater shall be 64 inches long overall. Tube bundle shall be 60 inches long x 6 inches in diameter at neck.

b. Hot Water Heater No. 2

1) Furnish and install complete where shown on plans the following water heating equipment:

<u>Plan Code</u>	<u>Make</u>	<u>Model</u>	<u>Storage</u>	<u>Total KW</u>	<u>Current</u>
HW-2	P.V.I	45N200A-E	200	45	480/60/3

2) Nickel shield water heater as manufactured by Pressure Vessels, Inc., Fort Worth, Texas.

CONSTANT FLOW CONTROL VALVES					
PLAN CODE OF EQUIPMENT	MANUFACTURER	MODEL	SIZE	GPM	
X UH-1	GRISWOLD	3282	1-1/2"	20	
UH-2	GRISWOLD	3282	1-1/2"	20	
UH-3	GRISWOLD	3522	3/4"	2	
UH-4	GRISWOLD	3532	1-1/2"	8	
UH-5	GRISWOLD	3532	1-1/2"	8	
UH-6	GRISWOLD	3532	1-1/2"	5	
UH-7	GRISWOLD	3522	3/4"	2	
UH-8	GRISWOLD	3532	1-1/2"	8	
UH-9	GRISWOLD	3532	1-1/2"	8	
UH-10	GRISWOLD	3532	1-1/2"	8	
UH-11	GRISWOLD	3532	1-1/2"	9	
UH-12	GRISWOLD	3522	3/4"	3	
AHU-1	GRISWOLD	3294	3"	100	
MAU-1	GRISWOLD	3294	3"	95	
MAU-2	GRISWOLD	3344	6"	225	

FUME EXHAUST FANS											
PLAN CODE	MFGR	MODEL	DRIVE	ARRANGE- MENT	CFM	SP	HP		POWER	ACCESS.	REMARKS
FEF-1	CARMON	CMB-14	Belt	(2)	1800	1.5"	1		480-3	(1)	
FEF-2	CARMON	CMB-20	Belt	(2)	2400	1.75"	1 1/2		480-3	(1)	

PLAN CODE	MFGR
HC-1	PACE
HC-2	PACE
(1) At 4000	

PLAN CODE	MFGR
PEF-1	POWER
PEF-2	POWER
PEF-3	POWER

Propeller Exha
(1) Automatic
(2) Factory m

Vo tech

AIR HANDLING UNIT SCHEDULE			
PLAN CODE	AHU-1	MAU-1	(1) MAU-2
MFGR.	PAGE	PAGE	PAGE
MODEL	A-24	A-16	A-24
ARRANGEMENT	VERTICAL BLOW THRU	HORIZONTAL DRAW THRU	HORIZONTAL DRAW THRU
TYPE	TRIPLE DECK MULTIZONE	SINGLE ZONE	ROOFTOP SINGLE ZONE
DISCHARGE	HORIZONTAL	HORIZONTAL	DOWN
NO. & DIAM OF FANS	1-24"	1-16"	1-24"
TYPE OF FAN	A.F.	F.C.	F.C.
VIBR. ISOL. DEFLECT.	1"	1"	1"
TOTAL ACFM (2)	12,300	6,000	14,850
RPM	1,234	906	545
EXTERNAL S.P.	1.50"	.65"	.70"
MOTOR H.P.	10	5	10
POWER	480-3	480-3	480-3
HEATING COIL SEC. :			
TYPE (3)	R	R	R
SERVICE	WATER	WATER	WATER
SIZE	30"x68"	36"x52"	(2) 24"x68"
FACE AREA	14.0 FT ²	13.0 FT ²	22.7 FT ²
MAX TOTAL SCFM	9,800	5,255	13,000
FACE VEL. @ SCFM	700	404	573
E.A.T. (°F)	36	-10	-10
L.A.T. (°F)	82	70	70
MAX A.P.D.	1.25"	1.00"	1.00"
MIN. MBH	490	483	1,228
GPM	100	95	225
E.W.T. (°F)	100	100	100
L.W.T. (°F)	90	90	90
MAX W.P.D.	10 FT.	10 FT.	10 FT.
COOLING COIL SEC. :		NONE	NONE
TYPE	X	-	-
SERVICE	DX	-	-
SIZE	(2) 24"x68"	-	-
FACE AREA	22.7 FT ²	-	-
MAX TOTAL SCFM	10,770	-	-
FACE VEL. @ SCFM	475	-	-
SAT. SUCT. TEMP	47°F	-	-
E.A.T. DB/WB	84/58	-	-
L.A.T. DB/WB	55/45	-	-
MAX. A.P.D.	.50"	-	-
MIN. MBH	330	-	-
FILTER SECTION :			
TYPE	VEE	VEE	VEE
MIN. AREA	31.3 FT ²	25.0 FT ²	31.3 FT ²
MAX SCFM	10,770	5,255	13,000
CHANGE RESIST.	.50"	.50"	.50"
NOTES : (1) MAU-2 UNDER ALT. # 3			
(2) AT 4000 FT. ELEVATION			
(3) ALL STEEL COIL WITH ALUM. FINES			

AIR C
PLA
MF
ARR
FAN
M
D
C
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RETU
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COOLIA
I
A
CONDE
F
I
FILTE
NOTES

Attachment #8 47-7478 Lis Rep
 VO Tech "D"

HOT WATER DUCT HEATING COILS

PLAN CODE	MFGR	WIDTH X HEIGHT	BTUH	CFM	MAXIMUM APD	EAT/LAT	GPM	MAXIMUM WPD	EWT	RE
HC-1	PACE	27 X 18	26,600	1000 (1)	.30"	57/85	20.0	7.0	100°	
HC-2	PACE	24 X 18	19,950	1000 (1)	.30"	64/85	12.0	7.0	100°	
(1) At 4000 ft elevation										

PROPELLER EXHAUST FANS

PLAN CODE	MFGR	MODEL	DRIVE	CFM	RPM	SP	HP	POWER	ACCESS.
				1500	1750	1/8"	1/4	120/1/60	1.2

Yo tech "D"

[illegible]

1. WELL OWNER
Well #1
Name College of Southern Idaho
Address Twin Falls, Idaho
Owner's Permit No. _____

2. NATURE OF WORK
☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☒ Other hot water geothermal (specify type)

4. METHOD DRILLED
☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☒ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION
Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____
Thickness _____ inches Diameter _____ inches From _____ feet To _____ 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 _____ inches by _____ inches
Number _____ From _____ To _____
perforations _____ feet _____ 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 120 Material used in seal: ☒ Cement grout
☐ Puddling clay ☐ Well cuttings
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 flowing well

6. LOCATION OF WELL
Sketch map location must agree with written location.
N
W E
S
County Twin Falls
Subdivision Name _____
Lot No. _____ Block No. _____

7. WATER LEVEL
Static water level flowing feet below land surface.
Flowing? ☒ Yes ☐ No G.P.M. flow 800
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☒ Valve ☐ Cap ☐ Plug
Temperature 102 OF. Quality good

8. WELL TEST DATA
☐ Pump ☐ Bailor ☐ Air ☐ Other _____
Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water Yes
	From	To		
12	0	9	Brown clay	
	9	20	Black basalt	
	20	24	Brown silt	
	24	35	Black basalt	x
	35	43	Brown silt	
	43	47	Broken basalt	
	47	79	Black basalt	
	79	82	Brown clay	
	82	103	Black basalt	
	103	120	Grey basalt	
	120	153	Brown basalt	
	153	162	Grey basalt	
	162	187	Brown basalt	
	187	227	Grey basalt (205-227 very hard)	
	227	232	Brown clay	
	232	235	Grey basalt	
	235	244	Brown clay	
	244	283	Gravel & brown clay	
	283	305	Grey clay	
	305	335	Brown clay w/ some gravel	
	335	338	Grey basalt	
	338	343	Grey clay	
	343	417	Grey basalt	
	417	425	Grey basalt (creviced)	
	425	433	Grey clay	
	433	445	Grey basalt (creviced & hard)	
	445	455	Grey basalt (hard)	
	455	563	Grey basalt w/ clay layers	
	563	570	Grey basalt (very hard)	
	570	583	Grey basalt w/ clay seams	
	583	585	Grey basalt (hard)	
	585	595	Grey clay	
	595	610	Grey basalt	
	610	625	Grey basalt (hard)	
	625	635	Brown clay	
	635	660	Grey Andesite (very hard)	

10. Work started 7/25/78 finished 11/21/79

11. DRILLERS CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
Firm Name Boley & Henry Firm No. 86
Address Murtaveh, Idaho Date 1 Dec 1979
Signed by (Firm Official) Blaine Boley
and
(Operator) Michael W. Boley

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 TYPEWRITTEN
BALLPOINT PEN

RECEIVED

FEB 2 1980

1. WELL OWNER

Name College of Southern Idaho
Address Twin Falls, Idaho
Owner's Permit No. _____

7. WATER LEVEL (Page 2)

Static water level _____ feet below land surface
Flowing? ☒ Yes ☐ No G.P.M. flow 800
Artesian closed-in pressure 29 p.s.i.
Controlled by: ☒ Valve ☐ Cap ☐ Plug
Temperature 62 OF. Quality good

2. NATURE OF WORK

☐ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

8. WELL TEST DATA

☐ Pump ☐ Bailor ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

3. PROPOSED USE

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

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water Yes
	From	To		
12	660	675	Grey Andesite (very hard)	
	675	687	Brown clay	
	687	698	Grey basaltic clay layers	
	698	705	Grey clay	
	705	733	Brown clay & rocks	
	733	750	Grey basalt	
	750	785	Grey clay	
	785	800	Grey Andesite (very hard)	
	800	870	Grey clay	
	870	901	Grey rock	
	901	903	Grey clay	
	903	907	Grey rock	
	907	956	Clay & rock in thin layers	
	956	963	Grey clay	
	963	976	Hard grey clay	
	976	981	Grey rock	
	981	992	Hard grey clay	
	992	1011	Grey Andesite (very hard)	
	1011	1012	Sticky clay	
	1012	1020	Grey Andesite (very hard)	
	1020	1030	Brown clay	
	1030	1055	Tan clay	
	1055	1056	Brown sand	
	1056	1070	Grey brown sand	
	1070	1085	Dark grey sand & shale clay seam	
	1085	1105	Dark grey sand & shale clay shale	
	1105	1107	Grey rock	
	1107	1110	Grey shale	
	1110	1123	Grey rock	
	1123	1125	Clay & sand (first flow)	X
	1125	1155	Brown rhyolite	X
	1155	1170	Broken brown rhyolite & sand	X
	1170	1215	Brown rhyolite	X
			reduced hole from 16" to 12" at 1140	
			(1215 was end of Major c/p)	

4. METHOD DRILLED

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

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ 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 _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

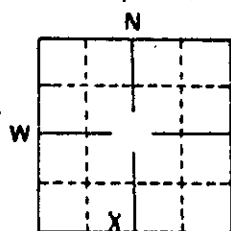
Well screen installed? ☐ Yes ☐ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal depth _____ Material used in seal: ☐ Cement grout ☐ Pudding clay ☐ Well cuttings
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 _____

10.

Work started 7/25/78 finished 11/21/79

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County Twin Falls

11. DRILLERS CERTIFICATION

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

Firm Name Boley & Henry Firm No. 86

Address Mortgash, Id Date 1 Dec 1979

Signed by (Firm Official) Blaine Boley Jr

and
(Operator) Paul W. Henry

DRILLER'S REPORT

USE TYPEWRITER BALLPOINT PEN

This report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

RECEIVED

7. WATER LEVEL

Page 3

Static water level _____ feet below land surface.
Flowing? ☒ Yes ☐ No G.P.M. flow 800
Artesian closed-in pressure 29 p.s.i.
Controlled by: ☒ Valve ☐ Cap ☐ Plug
Temperature 102 OF. Quality _____

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other Geothermal (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 _____
_____ inches _____ inches + _____ feet _____ feet
_____ inches _____ inches _____ feet _____ 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 _____ inches by _____ inches

Number _____ From _____ To _____
_____ perforations _____ feet _____ 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 _____ Material used in seal: ☐ Cement grout

☐ Puddling clay ☐ Well cuttings

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 _____

8. WELL TEST DATA

☐ Pump ☐ Baller ☐ Air ☐ Other _____

Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____

9. LITHOLOGIC LOG

Hole	Depth		Material	Water
Diam.	From	To		Yes
12"	1215	1550	Reddish brown rhyolite	
12	1550	1655	Grey brown rhyolite	
12	1655	1740	Grey rhyolite	
12	1740	1800	Grey rhyolite	
8"			Reduced hole to 8" at 1760'	
	1800	1820	Grey rhyolite	
	1820	1837	Brown rhyolite	
	1837	1882	Grey rhyolite	
	1882	1907	Grey - brown rhyolite	
	1907	1928	Brown rhyolite	
	1928	1962	Grey rhyolite	
	1962	2053	Brown rhyolite (1950-60)	X
	2053	2060	Grey Andesite	
	2060	2105	Olivine	
	2105	2121	Grey Andesite	
	2121	2187	light brown rhyolite	
	2187	2220	light brown rhyolite, crushed	

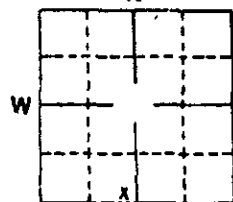
10.

Work started 7/25/78 finished 11/21/79

6. LOCATION OF WELL

Sketch map location must agree with written location.

N



Subdivision Name _____

Lot No. _____ Block No. _____

County Twin Falls

11. DRILLERS CERTIFICATION

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

Firm Name Boley & Henry Firm No. 86

Address Murtough Idaho Date 1 Dec 1978

Signed by (Firm Official) Blaine Boley

and

(Operator) John W. Henry

1. WELL OWNER

Well # 2

Name College of Southern Idaho

Address Twin Falls Idaho

Owner's Permit No.

7. WATER LEVEL

Static water level _____ feet below land surface

Flowing? ☒ Yes ☐ No G.P.M. flow 1100

Artesian closed-in pressure 30 p.s.i.

Controlled by: ☒ Valve ☐ Cap ☐ Plug

Temperature 102 OF. Quality good

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

8. WELL TEST DATA

☐ Pump ☐ Bailor ☐ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped
1100	flow	

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal

☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

☐ Other geothermal (specify type)

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water Yes N
	From	To		
20	0	15	Brown clay	
	15	22	Clay - broken rock	Y
	22	45	Grey basalt	Y
	45	49	Brown clay	
	49	63	Grey basalt	
	63	76	clay	
	76	85	Grey basalt	
	85	98	clay	
	98	130	Grey-brown basalt	
	130	164	Grey basalt	
	164	181	Brown basalt	
	181	218	Grey basalt	
	218	220	Talc	
	220	241	Grey basalt	
	241	378	Brown sandy clay & gravel	
	378	386	Soft brown conglomerate	
	386	416	Grey basalt	
	416	448	Brown clay	
	448	462	Grey clay	
	462	499	Brown clay	
	499	508	Grey clay	
	508	535	Grey basalt (hard)	
	535	543	Brown clay	
	543	640	Brown sandy clay	
	640	668	Grey sandy clay	
	668	714	Grey sandy clay	
	714	722	Grey sandy clay	
	722	748	Grey basalt	
	748	786	Reddish brown clay	
	786	778	Grey basalt	
	778	783	Brown basalt / layer of sticky clay	
	783	788	Brown clay	
	788	853	Grey basalt (hard)	
	853	858	Brown basalt	
	858	896	Grey basalt	
	896	912	Grey clay (sticky)	

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	1 feet	512 feet
256 inches	12 inches	1 feet	1248 feet
250 inches	10 inches	1184 feet	1345 feet
250 inches	8 inches	1293 feet	1457 feet

Was casing drive shoe used? ☒ Yes ☐ No 16" rod shoe

Was a packer or seal used? ☐ Yes ☒ No 12" cast steel

Perforated? ☒ Yes ☐ No 10" "

How perforated? ☒ Factory ☐ Knife ☐ Torch

Size of perforation 1/4 inches by 3 inches

8' liner bottom 40' perforations 16 rows feet foot feet

then 20' perforations 12 rows feet foot feet

then 100' perforations 8 rows feet foot 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 240 Material used in seal: ☒ Cement grout

☐ Puddling clay ☐ Well cuttings

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 flowing well

10.

Work started 22 Aug 1980 finished 22 April 1981

6. LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name _____

Lot No. _____ Block No. _____

County Twin Falls

NE 1/4 SW 1/4 Sec. 4, T. 10, R. 17 ENE

11. DRILLERS CERTIFICATION

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

Firm Name Boley & Henry Firm No. 86

Address Murtaugh, Idaho Date 24 May 1981

Signed by (Firm Official) Blaine Boley

and (Operator) Blaine Boley

STATE OF IDAH
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
JUN 8 1967
Department of Water Resources
Southern District Office

OWNER

name College of Southern Idaho
Address Twin Falls, Idaho
Owner's Permit No. _____

7. WATER LEVEL

Static water level _____ feet below land surface
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ OF. Quality _____

2. NATURE OF WORK

- ☐ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

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
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ 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 _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ 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 _____ Material used in seal: ☐ Cement grout

☐ Puddling clay ☐ Well cuttings

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 _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

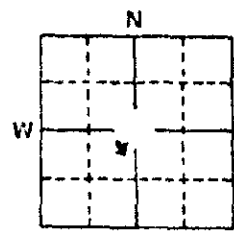
Hole Diam.	Depth		Material	Water Yield	No
	From	To			
16	912	980	Grey basalt (very hard)		
	980	990	Grey clay		
	990	995	Grey basalt		
	995	1023	Grey clay (sticky)		
	1023	1028	Grey basalt		
	1028	1062	Clay & shale w/ fine gravel		
	1062	1070	Black basalt		
	1070	1082	Brown clay (sticky)		
	1082	1090	Grey clay & shale (sticky)		
	1090	1111	Grey brown shale		
	1111	1113	Grey basalt		
	1113	1114	Grey clay		
	1114	1122	Grey basalt		
	1122	1124	Grey clay & rock layered		
	1124	1157	Black basalt		
	1157	1176	Grey clay & shale		
	1176	1181	Grey basalt		
	1181	1186	Grey shale		
	1186	1198	Grey basalt & thin layers clay		
	1198	1202	Grey basalt		
	1202	1209	Grey basalt & thin layers clay		
	1209	1215	Brown clay		
	1215	1230	Grey brown basalt		
	1230	1233	Grey basalt (hard)		
	1233	1248	Grey - brown basalt		
12	1248	1267	Grey sandstone (very hard)		
	1267	1305	Brown shale (cracked)		
	1305	1321	Brown shale		
	1321	1335	Layers of sand, shale & clay		
	1335	1350	light brown clay		
	1350	1357	Brown micaceous clay & s + clay		
	1357	1480	Reddish brown micaceous - broken 1440-1455		
			1455' or broken, creviced & caving formation		

10. MAIN FLOW 1442-1455'

Work started _____ finished _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County Twin Falls

NE 1/4 SW 1/4 Sec. 4 T. 10 N. R. 17 E.

11. DRILLERS CERTIFICATION

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

Firm Name Boley & Henry Firm No. 86

Address Murtaugh, Idaho Date 24 May 1967

Signed by (Firm Official) Blaine Boley

and
(Operator) Blaine Boley

NELSON, ROSHOLT, ROBERTSON, TOLMAN & TUCKER
Chartered

ATTORNEYS AT LAW
142 3RD AVE NO.

MAILING ADDRESS: P.O. BOX 1906
TWIN FALLS, ID 83303-1906
TELEPHONE (208) 734-0700

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J. EVAN ROBERTSON
STEVEN K. TOLMAN
JAMES C. TUCKER

TERRY T. UHLING
F. BRUCE COVINGTON
LAIRD B. STONE
GARY D. SLETTE

February 12, 1986

RECEIVED
FEB 13 1986

Mr. L. Glen Saxton
Chief, Operations Bureau
State of Idaho
Department of Water Resources
450 West State Street
Boise, Idaho 83724

Department of Water Resources

RE: Permit No. 47-7478 & 47-7606, College of Southern Idaho

Dear Glen:

This letter is in reponse to your January 24, 1986 letter referencing Permit Numbers 47-7478 and 47-7606. I have reviewed your letter and pursuant to our recent telephone conversation, will provide you the following information referencing our continued good faith effort to develop our water right under Permit No. 47-7606. The College of Southern Idaho has taken the following steps in the development of the water right under Permit No. 47-7606.

(a) The location of two wells on the CSI campus located in the SE 1/4 SW 1/4 and NE 1/4 SW 1/4, Section 4, Township 10 South, Range 17 East B.M.

(b) In October of 1985, the College of Southern Idaho completed the retro-fitting of the Taylor Administration Building which is approximately 40,000 square feet to use geothermal water for space heating. This retro-fitting was a success. During the record cold winter of 1985, it provided 100% of the space heat necessary for the Taylor Administration Building.

(c) Engineering studies recommending conversion to geothermal heat were completed in December of 1985 referencing the Physical Ed. and Fine Arts Buildings which total

L. Glen Saxton
Id. Dept. of Water Resources
February 12, 1986
Page 2

approximately 70,000 square feet. CSI is in the planning and development stage of installing underground insulated pipe in the coming spring and summer of 1986 with retro-fitting to these facilities beginning in the fall of 1986. 2

(d) Construction of a 7,500 square foot addition to the Taylor Administration Building is in progress. This addition will utilize geothermal water for space heating purposes when finalized.

(e) The College of Southern Idaho is involved in a lawsuit in the Fifth Judicial District Court of the State of Idaho in and for the County of Twin Falls, (College of Southern Idaho v. Idaho Department of Water Resources, et al.). *Twin Falls*

The above outlines several of the activities the College of Southern Idaho has undertaken in the development of its water rights under Permit Number 47-706 as required by Idaho law. We are willing to provide the Department of Water Resources with any information, including engineering studies, plans, and cost data that have been completed and incurred by the College of Southern Idaho in development of its valuable geothermal water resource. We will continue to develop our water right under the guidance of Idaho law in order to facilitate the saving of Idaho taxpayer dollars by beneficially utilizing the geothermal water resource.

If you have any questions, please feel free to contact me.

Sincerely yours,


TERRY T. UHLING

TTU:crh
85601



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

SEPTEMBER 1, 1985

DEAR PERMIT HOLDER:

ACCORDING TO OUR RECORDS, YOU ARE THE HOLDER OF A WATER PERMIT ON WHICH PROOF OF BENEFICIAL USE OF WATER WAS NOT SUBMITTED BEFORE JULY 1, 1985, WHICH INDICATES YOUR PROJECT IS NOT COMPLETE. THEREFORE, YOU NEED TO BE AWARE OF CHANGES IN IDAHO LAW, EFFECTIVE JULY 1, 1985, WHICH IMPACT ALL WATER PERMITS ISSUED BY THIS DEPARTMENT.

SPECIFICALLY, PURSUANT TO SECTION 42-203D, IDAHO CODE, THE DEPARTMENT MUST REVIEW ALL PERMITS FOR WHICH DEVELOPMENT OF WATER USE WAS NO COMPLETED ON OR BEFORE JULY 1, 1985, TO DETERMINE IF THEY MEET THE NEW REQUIREMENTS OF CHAPTER 2, TITLE 42, IDAHO CODE. RULES AND REGULATIONS GOVERNING THE RE-EVALUATION OF PERMITS ARE NOT YET FINALIZED. HOWEVER, IF YOU COMPLETED THE DEVELOPMENT UNDER YOUR PERMIT BEFORE JULY 1, 1985, YOU SHOULD SUBMIT A PROOF OF BENEFICIAL USE STATEMENT, STATING THAT THE PROJECT WAS COMPLETED BEFORE JULY 1, 1985 SO THAT YOUR PERMIT WILL NOT BE SUBJECT TO THE REVIEW REQUIREMENTS OF SECTION 42-203D, WHICH READS AS FOLLOWS:

42-203D. REVIEW OF PERMITS - OPPORTUNITY FOR HEARING. - (1)THE DEPARTMENT SHALL REVIEW ALL PERMITS ISSUED PRIOR TO THE EFFECTIVE DATE [JULY 1, 1985] OF THIS SECTION, EXCEPT TO THE EXTENT A PERMIT HAS BEEN PUT TO BENEFICIAL USE PRIOR TO JULY 1, 1985, TO DETERMINE WHETHER THEY COMPLY WITH THE PROVISIONS OF CHAPTER 2, TITLE 42, IDAHO CODE. IF THE DEPARTMENT FINDS THAT THE PROPOSED USE DOES NOT SATISFY THE CRITERIA OF CHAPTER 2, TITLE 42, IDAHO CODE, THEN THE DEPARTMENT SHALL EITHER CANCEL THE PERMIT OR IMPOSE THE CONDITIONS REQUIRED TO BRING THE PERMIT INTO COMPLIANCE WITH CHAPTER 2, TITLE 42, IDAHO CODE. IF THE DEPARTMENT FINDS THAT THE PERMIT SATISFIES THE CRITERIA ESTABLISHED IN CHAPTER 2, TITLE 42, IDAHO CODE, THEN THE DEPARTMENT SHALL ENTER AN ORDER CONTINUING THE PERMIT. (2)THE DEPARTMENT SHALL PROVIDE AN OPPORTUNITY FOR HEARING IN ACCORDANCE WITH SECTION 42-1701A, IDAHO CODE, AND SECTIONS 67-5209 THROUGH 67-5215, IDAHO CODE, FOR EACH HOLDER OF A PERMIT THAT IS PROPOSED EITHER TO BE CANCELLED OR MADE SUBJECT TO NEW CONDITIONS.

YOU MAY OBTAIN PROOF OF BENEFICIAL USE FORMS FROM THE DEPARTMENT. IF YOU HAVE ANY QUESTIONS, PLEASE LET US KNOW.

SINCERELY,

L. GLEN SAXTON
CHIEF, OPERATIONS BUREAU

January 24, 1986

Terry Uhling
NELSON, RSHOLT, ROBERTSON, TOLMAN & TUCKER
P. O. Box 1906
Twin Falls, 83301

Dear Mr. Uhling:

Re: Permit No. 47-7478 and 47-7606
College of Southern Idaho

A review of department records shows that in November 1984, the College of Southern Idaho submitted to the department a request for extension of time in connection with Permit No. 47-7606, which is the later in time permit in the name of the college. Action has not been taken by the department on the request as a result of the pending law suit filed on behalf of CSI.

Proof of beneficial use was filed on the earlier Permit No. 47-7478 on June 9, 1983 and was examined on March 18, 1985 by department personnel to determine the extent of beneficial use. The department examiner found that the rate of diversion being beneficially used was a total of 1.21 cfs being diverted from two wells located in the SE1/4SW1/4 and NE1/4SW1/4, Sec. 4, Twp 10S, Rge. 17E B.M. When issued, license 47-7478 will show this rate of diversion. No additional development is authorized under this permit.

The purpose of this letter is to request and to obtain information related to the start of construction under Permit No. 47-7606 before further considering the pending extension of time request.

As you undoubtedly are aware, provisions of Sec. 42-204 Idaho Code require the start of construction within one year of the permit issuance and diligent and uninterrupted prosecution of the work to completion unless temporarily interrupted by circumstances over which the permit holder has no control. (Lack of funding is not a reason which can be considered).

Upon receipt of information satisfactory to the director that compliance with Sec. 42-204, Idaho Code relative to Permit No. 47-7606 has

occurred, the department will be in a position to further consider the pending extension request on the permit. Please forward the information with twenty (20) days.

If you have questions, please feel free to contact the department.

Sincerely,

L. GLEN SXTOM
Chief, Operations Bureau

LGS:ef

cc: Southern Region
College of Southern Idaho



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

March 8, 1985

RE: Permit Nos. 47-7478 & 47-7606

College of Southern Idaho
Box 1238
Twin Falls, ID 83301

Gentlemen:

Enclosed are copies of the approved Applications for Amendment submitted in connection with the above referenced permits.

If you have any questions concerning this matter, please contact us.

Sincerely,

JIM JOHNSON *by kw*
Water Distribution Supervisor

JJ:sc

Enclosures

1 John A. Rosholt
James C. Tucker
2 Terry T. Uhling
NELSON, ROSHOLT, ROBERTSON,
3 TOLMAN & TUCKER
P.O. Box 1906
4 Twin Falls, Idaho 83303
Phone No. (208) 734-0700
5 2206p/sw/2-12-85

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10 IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
11 STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

12 * * * * *

13 COLLEGE OF SOUTHERN IDAHO,)

Case No. _____

14 Plaintiff,)

15 vs.)

COMPLAINT

16 THE IDAHO DEPARTMENT OF WATER)
RESOURCES, an executive)
17 agency of the State of Idaho;)
Ira Burton Perrine, Jr.;)
18 Professional Investors Life)
Insurance Company; Villa Del)
19 Rio Homeowners Association;)
Michael Kestler; Gary Stone;)
20 First Church of the Nazarene;)
J.D. McCollum; Aqua Life, Inc.;)
21 Sun Ventures. Ltd.; Hydrotube)
of Idaho; Arnold Elsing;)
22 Ronald Elsing; Eugene W.)
Walker; Mark Koffer; Cynthia)
23 G. Koffer; Twin Falls School)
District No. 411; Magic)
24 Gardens, John Does, 1 through)
50,)

25 Defendants.)
26 _____)

27 * * * * *

28 Plaintiff alleges as follows:

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1 campus in Twin Falls, Idaho.

2 4. Those defendants identified in Exhibit A (at
3 times hereinafter referred to as "water users") are record
4 holders of water right permits relating to the same or related
5 geothermal aquifer systems, those permits being more
6 specifically identified on Exhibit "A" which is attached hereto
7 and made a part hereof as if set out at length herein.

8 5. Professional Investors Life Insurance Company
9 claims some interest in lands and properties to which certain
10 above-described water rights are appurtenant and is named
11 herein as a defendant to afford it the opportunity to be heard
12 and protect said interest, if any, if it should so desire.

13 6. CSI, pursuant to its permits as identified in
14 paragraph 3 herein, has drilled into the geothermal aquifer
15 system and has installed wells into the aquifer which are
16 located on the CSI property. The temperature of the water
17 flowing from the geothermal aquifer through CSI's wells varies
18 from a low of 91° to 108° fahrenheit. CSI's wells have
19 historically had sufficient artesian pressure at the surface to
20 satisfy the requirements of CSI.

21 7. The geothermal wells developed and installed by
22 CSI have been and are currently being utilized by CSI for the
23 purposes of heating its college facilities, and for the
24 propagation of fish, each of these uses being a beneficial use
25 as recognized under Idaho law.

26 FIRST CAUSE OF ACTION

27 ADJUDICATION

28 8. CSI incorporates herein as though set out in

1 full and by said reference realleges paragraphs 1 through 7 of
2 this Complaint.

3 9. The "water users" have been, and currently are,
4 interfering with CSI's water rights, through the use of water
5 from wells drilled into the same or a related geothermal
6 aquifer system, which use results in a depletion of the
7 artesian water pressure available to service CSI's rights and a
8 degradation in the quality and quantity of water available
9 under CSI's rights.

10 10. The water users identified herein are or claim
11 to be the holders of water rights from the State of Idaho,
12 including claims, applications, permits and licenses, which
13 have the following characteristics:

14 (a) The source of each water right is the same or a
15 related geothermal aquifer to that which is
16 being utilized by CSI;

17 (b) The purposes for which such geothermal water is
18 used or proposed to be used by the various water
19 users herein is varied, but includes heating,
20 commercial uses, hydropower, recreation, and
21 fish propogation.

22 11. It is believed, and therefore alleged, that said
23 water rights which have been developed by the water users have
24 interfered, and that future wells when developed will continue
25 to interfere, with CSI's geothermal aquifer water supply, and
26 the temperature and artesian pressure thereof, which will
27 preclude CSI from fulfilling and adequately utilizing its water
28 rights, thereby causing irreparable damage to CSI.

1 12. John Does 1 through 50 are presently unknown
2 claimants or water users who will hereafter seek the right to
3 divert and use water within the same geothermal system or who
4 presently divert water from that geothermal system without
5 authority from the State of Idaho. As the true names of those
6 claimants become known to CSI, they will be joined in this
7 action.

8 13. Pursuant to the authority granted by Idaho Code
9 §42-1401, et. seq., CSI, through this action, seeks an
10 adjudication of all the rights claiming the use of water from
11 the common geothermal aquifers supplying the various rights
12 identified herein. For the purposes of administering any
13 decree resulting from this adjudication of said aquifer or its
14 tributary aquifers, CSI has identified, to the best of its
15 ability, the known water users of said geothermal aquifer or
16 aquifers in paragraph 4 herein.

17 SECOND CAUSE OF ACTION

18 DECLARATORY JUDGMENT

19 14. CSI incorporates herein as though set out in
20 full and by said reference realleges paragraphs 1 through 13 of
21 this Complaint.

22 15. On the 5th day of March, 1985, CSI presented to
23 the IDWR for filing two applications for permit under the
24 Geothermal Resource Act of the State of Idaho, Idaho Code
25 §42-4001, et. seq. Said applications seeking permits from the
26 State of Idaho for the same water rights identified in
27 paragraph 3 herein.
28

1 16. The actions of the water users identified
2 herein, in interfering with CSI's water rights in and to the
3 geothermal aquifer, threaten irreparable damage to CSI's
4 rights, and a real controversy exists as to the interpretation
5 and application of Idaho Code §§42-4001, et.seq. and 42-201,
6 et.seq. to a geothermal aquifer system within the State of
7 Idaho.

8 17. CSI's, IDWR's and the water users' respective
9 rights, status and legal relationships are affected and to a
10 large extent governed by the above-referenced code sections,
11 and yet in the absence of an affirmative declaration by this
12 Court, the precise effect of those code sections upon the
13 parties' legal rights and relationships is uncertain.

14 18. CSI, pursuant to Idaho Code §10-1201, et. seq.
15 requests that this Court declare and adjudge the respective
16 rights, status and legal relationships of CSI with all of the
17 named defendants herein with regard to the following issues,
18 and such other issues as may be appropriately raised in this
19 litigation:

20 (a) The Geothermal Resource Act is the sole
21 procedure after 1972 to obtain a right to develop a geothermal
22 resource in Idaho.

23 (b) Idaho Code §42-4003 does not exempt uses
24 originating after 1972 and such users are subject to the
25 Geothermal Resource Act.

26 (c) The priority system of "first in time is first
27 in right" principle of the water appropriation doctrine as set
28 out in Article 15, Section 3 of the Idaho Constitution and

1 Idaho Code §42-106 is applicable to appropriations under the
2 Geothermal Resource Act.

3 (d) The exemption promulgated by the IDWR in Rules
4 and Regulations dated November 1982 under the Geothermal
5 Resources Act is based upon a misinterpretation of Idaho Code
6 §42-1003(e) and is consequently invalid.

7 (e) The utilization of heat from a geothermal
8 aquifer system is a beneficial use of the Geothermal Water
9 Resource.

10 (f) The utilization of water from a geothermal
11 aquifer system in a manner that does not utilize the heat
12 resource is contrary to the Geothermal Resource Act and is not
13 in the public interest and therefore constitutes a waste of the
14 geothermal aquifer system resource.

15 (g) Artesian pressure is part of a geothermal right
16 and as a consequence a water user may protect said right by
17 administrative or court action.

18 THIRD CAUSE OF ACTION

19 INJUNCTION

20 LICENSE NO. 36-7130

21 COUNT ONE

22 19. CSI incorporates herein as though set out in
23 full and by said reference realleges paragraphs 1 through 18 of
24 this Complaint.

25 20. Ira Burton Perrine, Jr. is the record holder of
26 license #36-7130, although CSI is informed and believes, and
27 therefore alleges, that the true owner of said right is
28 presently Professional Investors Life Insurance Company, an

1 insurance company with its principal place of business in
2 Tulsa, Oklahoma, although said company transacts business
3 within the State of Idaho and owns property within the State of
4 Idaho, specifically, the water right referred to herein.

5 21. The owners of the water right described in
6 license #36-7130 (hereinafter referred to as "license right")
7 at all times material hereto have allowed water to flow freely
8 from the well supplying said right without applying the water
9 to a beneficial use. As a result, the utilization of that
10 license right has in the past and will in the future continue
11 to interfere with CSI's geothermal water right.

12 22. The owners of the license right have failed to
13 apply the water which is the subject of that license right to a
14 beneficial use and have, therefore, abandoned or forfeited
15 their water right.

16 COUNT TWO

17 23. CSI incorporates herein as though set out in
18 full and by said reference realleges paragraphs 1 through 22 of
19 this Complaint.

20 24. The failure of the owners' of license #36-7130
21 to apply the water received under that license to a beneficial
22 use constitutes a wasting of a geothermal water resource, and
23 as such, is contrary to the intention of the Geothermal
24 Resource Act, Idaho Code §42-104, and to the public interest at
25 large.

26 25. The wasting of that geothermal water resource as
27 described in paragraph 24 has and will continue to deplete and
28 affect the quantity and quality of the geothermal aquifer

1 system serving CSI, and as a consequence, will result in
2 irreparable damage to CSI's geothermal right.

3 26. CSI is in need of substantial protection of its
4 rights through the injunctive power of this Court so that it
5 might restore and maintain the condition and quality of its
6 geothermal right and prevent further irreparable damage to said
7 right from the direct and/or indirect interference by the owner
8 of license #36-7130. CSI is in need of preventive and
9 protective remedies to enjoin defendants from continuing their
10 interference with CSI's water rights and from affecting the
11 temperature, pressure, quality, and quantity of water received
12 by CSI under its geothermal right. CSI has no adequate remedy
13 at law to prevent further irreparable damage to its geothermal
14 water rights.

15 COUNT THREE

16 27. CSI incorporates herein as though set out in
17 full and by said reference realleges paragraphs 1 through 26 of
18 this Complaint.

19 28. The owners of the license right #36-7130 have
20 drilled into the geothermal aquifer system with an "artesian
21 well", as those terms are defined by Idaho Code §42-1604. The
22 artesian well as constructed by the owners of that right is not
23 capped, equipped or furnished with such mechanical appliances
24 as will readily control the flow of water from such well, and
25 as such, the well as constructed does not meet the requirements
26 of Idaho Code §42-1601, et. seq., and constitutes a common
27 nuisance.
28

1 29. By order dated February 1, 1985, the IDWR
2 ordered the owner of license #36-7130 to undertake such action
3 as was necessary to modify the construction of the well so as
4 to provide that the control valve may be closed or to abandon
5 the well by an approved method such that no waste of the
6 groundwater will occur during or subsequent to such
7 abandonment. A true and correct copy of that order being
8 attached hereto as Exhibit "B", and by said reference made a
9 part hereof as though set out in full.

10 30. In the absence of voluntary compliance by the
11 owner of license #36-7130 with IDWR's order, this Court should
12 affirmatively order said owner to comply with the order of the
13 IDWR and the mandates of Idaho Code §42-1601, et. seq.

14 THIRD CAUSE OF ACTION

15 INJUNCTION

16 Permit # 47-7477

17 31. CSI incorporates herein as though set out in
18 full and by said reference realleges paragraphs 1 through 30 of
19 this Complaint.

20 32. J-Four Development Company is the record owner
21 of water right permit #47-7477, although it is believed, and
22 therefore alleged, that the beneficial ownership of said permit
23 is in the Villa Del Rio Homeowners Association. The water
24 right which is the subject of permit #47-7477 has not been
25 beneficially used as required under Idaho law. The owner,
26 assignee, or beneficial owner of said permit, through their
27 failure to apply the water under said permit in a beneficial
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1 manner, prevents them from obtaining a water right recognizable
2 and protectable under Idaho law.

3 33. The continued application of water in a
4 non-beneficial manner by the owner of water right #47-7477
5 constitutes a wasting of a geothermal water resource, and as
6 such, is contrary to the intent of the Geothermal Resource Act
7 and the public interest.

8 34. The continued wasting of said geothermal water
9 resource by the owner or assignee of the referenced water right
10 is directly or indirectly interfering with CSI's geothermal
11 water rights, and as such, constitutes irreparable damage to
12 CSI's rights.

13 35. CSI is in need of substantial protection of
14 their rights through the injunctive power of this Court in
15 order to maintain the status and quality of the right so as to
16 prevent further irreparable damage to said right from the
17 direct and/or indirect interference by the owner of water right
18 #47-7477. CSI is in need of preventive, prohibitive and
19 protective remedies to enjoin that owner or assignee from
20 continuing their interference with its water rights by
21 adversely affecting the temperature, pressure, quality, and
22 quantity of water received and recognized under said water
23 rights. CSI has no adequate remedy at law to prevent further
24 irreparable damage to its geothermal water rights.

25 FOURTH CAUSE OF ACTION

26 INJUNCTION

27 Permit #'s 47-7758 & 47-7813

28 36. CSI incorporates herein as though set out in

1 full and by said reference realleges paragraphs 1 through 35 of
2 this Complaint.

3 37. J.D. McCollum is the record owner of water
4 permit #47-7758 & #47-7813 (hereinafter referred to as the
5 "McCollum Permits") said permits being junior in time to CSI's
6 geothermal water rights. The utilization of water pursuant to
7 the McCollum Permits from the geothermal aquifer system
8 directly or indirectly interferes with CSI's geothermal water
9 rights, said interference adversely affecting the temperature,
10 pressure, quality, and quantity of CSI's rights.

11 38. McCollum utilizes water under pressure from the
12 geothermal aquifer system to generate electricity. The
13 generation of electricity under the McCollum permits does not
14 utilize the heat from the geothermal water aquifer for power
15 generation purposes, and consequently, said use does not
16 constitute a beneficial use of the geothermal aquifer as
17 recognized or intended by the Geothermal Resource Act.

18 39. The generation of electricity through the use of
19 water from the geothermal aquifer is in violation of the public
20 trust and the public interest. McCollum's continued and past
21 utilization of water from the geothermal aquifer system to
22 generate electricity constitutes a waste of the geothermal
23 water resource.

24 40. CSI is in need of substantial protection of its
25 rights through the injunctive power of this Court in order to
26 maintain the status and quality of its rights and to prevent
27 further irreparable damage to CSI's rights from the direct
28 and/or indirect interference by McCollum as set forth above.

1 CSI is in need of preventive, prohibitive and protective
2 remedies to enjoin said defendants from continuing their
3 interference with its water rights by adversely affecting the
4 temperature, pressure, quality, and quantity of said water
5 received and recognized under their geothermal water right.
6 CSI has no adequate remedy at law to prevent further
7 irreparable damage to its geothermal rights by McCollum.

8 FIFTH CAUSE OF ACTION

9 INJUNCTION

10 41. CSI incorporates herein as though set out in
11 full and by said reference realleges paragraphs 1 through 40 of
12 this Complaint.

13 42. All of the defendants identified herein by
14 virtue of their use of and involvement with the geothermal
15 aquifer system directly or indirectly interfere with CSI's
16 geothermal water rights. That interference continues to injure
17 CSI by adversely affecting the temperature, pressure, quality
18 and quantity of water received by CSI under its geothermal
19 right.

20 43. CSI, under Idaho law, is entitled to protection
21 of the artesian pressure of its geothermal water right, and the
22 activities of the named defendants herein are adversely
23 affecting said artesian pressure on a continuing basis.

24 44. CSI is likewise entitled to the protection of
25 its geothermal water rights, and no withdrawals should be
26 permitted beyond the annual average recharge of the geothermal
27 aquifer system, so as to protect the artesian pressure of the
28 aquifer.

1 45. CSI is in need of substantial protection of its
2 rights through the injunctive relief of this Court in order to
3 maintain the status and quality of its right so as to prevent
4 further irreparable damage to CSI from the direct and/or
5 indirect interference by the defendants as set forth above.
6 CSI is in need of preventive, prohibitive and protective
7 remedies to enjoin said defendants from continuing with their
8 interference with the CSI water rights by adversely affecting
9 the temperature, pressure, quality, and quantity of water
10 received and recognized under the CSI water right. CSI has no
11 adequate remedy at law to prevent further irreparable damage to
12 its water rights.

13 SIXTH CAUSE OF ACTION

14 DAMAGES

15 46. CSI incorporates herein as though set out in
16 full and by said reference realleges paragraphs 1 through 45 of
17 this Complaint.

18 47. All of the defendants identified herein by
19 virtue of their use of and involvement with the geothermal
20 aquifer system directly or indirectly interfere with CSI's
21 geothermal water rights. That interference continues to injure
22 CSI by adversely affecting the temperature, pressure, quality
23 and quantity of water received by CSI under its geothermal
24 right.

25 48. As a direct and proximate result of the
26 Defendants' individual and/or collective interference with
27 CSI's geothermal water rights, CSI has suffered monetary
28 damages in such an amount as to be determined by this Court at

1 the time of the hearing on any preliminary injunction issued
2 hereunder or at the time of trial on the merits.

3 WHEREFORE, the Plaintiff prays for judgment as follows:

4 1. That the Court adjudicate all the rights to the
5 use of water claimed from the geothermal aquifer system.

6 2. The entry of a declaratory judgment:

7 (a) Declaring that the Geothermal Resource Act
8 is the sole procedure after 1972 to obtain a right to develop a
9 geothermal resource.

10 (b) Declaring that Idaho Code §42-4003 does not
11 exempt uses originated after 1972 and that such uses are
12 subject to the Geothermal Resource Act.

13 (c) Declaring that the priority system of
14 "first in time is first in right" of the water appropriation
15 doctrine is applicable to the Geothermal Resource Act.

16 (d) Declaring that the exemption promulgated by
17 the IDWR in Rules and Regulations dated November 1982 under the
18 Geothermal Resource Act is based upon a misinterpretation of
19 Idaho Code §42-^A1003(e) and is consequently invalid.

20 (e) Declaring that the utilization of heat from
21 the geothermal aquifer system is a beneficial use of the
22 geothermal water resource.

23 (f) Declaring that the utilization of water
24 from the aquifer system in a manner that does not utilize the
25 geothermal characteristic of the resource is contrary to the
26 Geothermal Resource Act and is not in the public interest and
27 therefore constitutes a waste of the geothermal aquifer system
28 resource.

Artesian
head has valve
for CSI

1 (g) Declaring that artesian pressure is part of
2 the geothermal right and is entitled to protection.

3 3. That the owners of license #36-7130 have failed
4 to apply water under said right to a beneficial use and have
5 abandoned or forfeited their water right.

6 4. That the owners of license #36-7130 have failed
7 to apply their water to beneficial use and are wasting the
8 geothermal water resource.

9 5. That the owners of license #36-7130 have an
10 artesian well that is not furnished with such mechanical
11 appliances that will readily control the flow of water from the
12 well. That the well, as constructed, constitutes a common
13 nuisance.

14 6. That IWDR is required to cap or the owners
15 comply with the order requiring the owners of the artesian well
16 under license #36-7130 to cap or shut off the flow of water
17 from the well to prevent a common nuisance and waste of a
18 geothermal water resource.

19 7. That the Homeowners Association does not have a
20 valid water right under permit #47-7477 because they have
21 failed to apply the water to beneficial use.

22 8. That the Homeowners Association's use of water
23 pursuant to permit #47-7477 constitutes a waste of a geothermal
24 water resource.

25 9. That McCollum's utilization of hot water from
26 the hot aquifer system pursuant to permits #47-7758 and
27 #47-7813 to generate electricity is a non-beneficial use of the
28 geothermal water resource and constitutes a waste of the

Artesian
head has no valve
for McCollum's use

1 geothermal water resource.

2 10. Issuing a preliminary injunction ordering and
3 directing the defendants individually and/or collectively to
4 halt their direct and/or indirect interference with CSI's
5 geothermal water right.

6 11. Issuing permanent injunction enjoining the
7 defendants individually and/or collectively from directly
8 and/or indirectly interfering with CSI's geothermal water right.

9 12. For judgment against the defendants individually
10 and/or collectively for any monetary damages caused to
11 plaintiff by defendants' direct and/or indirect interference
12 with CSI's geothermal water right.

13 13. For judgment against the defendants individually
14 and/or collectively for cost of suit including reasonable
15 attorney's fees incurred in this action, and for such other
16 relief as the court deems just and proper.

17 DATED this 8th day of March, 1985.

18 NELSON, ROSHOLT, ROBERTSON
19 TOLMAN & TUCKER

20 By: John A. Rosholt
21 John A. Rosholt
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EXHIBIT "A"

<u>Permit No.</u>	<u>Name and Address</u>	<u>Date of Priority</u>	<u>Rate of Diversion</u>	<u>Point of Diversion Place of Use</u>	<u>Proposed or Actual Use</u>
36-7130	Perrine, Jr. Ira Burton 343 Blue Lakes Blvd. N. Twin Falls, ID 83301	5-6-1970	6.00 c/f/s	Lt4 SWNE(04) S28, T9S, R17E, Jerome County, Idaho	irrigation
47-7477	J-Four Development Co. Villa Del Rio Homeowner's Association P.O. Box 1108 Twin Falls, ID 83301	6-5-1978	.16 c/f/s	SESE (08), S32, T9S, R17E Twin Falls County, Idaho	heating, domestic, irrigation
47-7813	McCollum, J.D. Box 112 Twin Falls, ID 83301	4-22-1982	15.00 c/f/s	SESE (23) S29, T9S, R17E; and NENE (40) S2, T9S, R17E; and Lt1 NENW (18), S33, T9S, R17E; and Lt2 SWNW (40), S33, T9S, R17E; and SENE (30), S33, T9S, R17E; and NESW (25), S33, T9S, R17E; and Lt5 NWSE (30), S33, T9S, R17E; as recorded in Bk 235 at pg 603 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho; and, NWNW (37) S33, T9S, R17E, except for two small parcels of land as recorded in Bk 230-3087 and 88 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho; and, Lt8 NESE (28) S33, T9S, R17E as recorded in Bk 221 at pg 2013 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho;	irrigation fish propagation heating

47-7758	McCollum, J.D. Box 112 Twin Falls, ID 83301	9-25-1981	10.00 c/f/s	(same as above)	(same as above)
36-8094	Aqua Life, Inc. Route 3 Buhl, ID 83316	6-28-1982	7.00 c/f/s	Lt14, S29, T9S, R17E, Twin Falls County, Idaho	power
	Aqua Life Corp. Route 3 Buhl, ID 83316			NWSE S19, T9S, R17E; and SWSE S19, T9S, R17E as recorded in Bk 197 at pg 3816 in the office of the County Recorder, Jerome County, Jerome, Idaho;	fish propagation
36-8137	Sun Ventures, Ltd. Route 3, Box 50 Buhl, ID 83316	1-11-1983	48.00 c/f/s	Lt11, S29, T9S, R17E; and Lt8, S30, T9S, R17E, Twin Falls County, Idaho	fish propagation
47-7745	First Church of Nazarene P.O. Box 25 Twin Falls, ID 83310	6-26-1981	.70 c/f/s	NESE (10), S5, T10S, R17E as recorded in Bk 231 at pg 549 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho;	irrigation heating
47-7872	Hydrotube of Idaho 2285 Addison Ave. E. Twin Falls, ID 83301	4-4-1983	.20 c/f/s	SWSW (02) S11, T10S, R17E, further described as E 1.5a of W 7.5a of S 15a of SWSW, S11, T10S, R17E, Twin Falls County, Idaho	irrigation
47-7929	Eugene W. Walker 624 Pierce Street Twin Falls, ID 83301	6-29-1983	.02 c/f/s	SENE (01) S4, T10S, R17E as recorded in Bk 230 at pg 675, in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho;	irrigation heating cooling domestic

47-7935	Koffer, Mark Koffer, Cynthia G. 1068 Wirsching Ave. West Twin Falls, ID 83301	6-29-1983	.08 c/f/s	SWNE (01) S7, T10S, R17E, Twin Falls County, Idaho	irrigation heating domestic
47-7964	Twin Falls School District #411 201 Main Ave. West Twin Falls, ID 83301	10-3-1983	1.11 c/f/s	NENW, S10, T10S, R17E; and SENE, S10, T10S, R17E, Twin Falls County, Idaho	heating
47-7966	Magic Gardens 560 Filer Avenue Twin Falls, ID 83301	10-5-1983	1.00 c/f/s	NWSE, S9, T10S, R17E, Twin Falls County, Idaho	heating
47-7492	Kestler, Michael Route 3 Twin Falls, ID 83301	12-13-1978	.31 c/f/s	NENE, S1, T10S, R17E; as recorded in Bk 228-2861 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho; and NWNW, S6, T10S, R18E as recorded in Bk 227-1695 and Bk 228- 2860 and 2861 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho;	irrigation hot baths pools
47-7714	Stone, Gary Route 1 Kimberly, ID 83341	3-11-1981	2.00 c/f/s	NENE, S5, T10S, R18E as recorded in Bk 234 at pg 3144 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho;	commercial, greenhouse, space heating, swimming, power
47-7875	Elsing, Arnold Box 919 Twin Falls, Idaho 83301	4-18-1983	.30 c/f/s	NWNE S14, T10S, R16E as recorded in Bk 231 at pg 806 in the office of the County Recorder, Twin Falls County, Twin Falls, Idaho;	heating, recreation

BEFORE THE DIRECTOR OF THE IDAHO DEPARTMENT OF WATER RESOURCES
OF THE STATE OF IDAHO

IN THE MATTER OF LICENSE NO. 36-7130,
PROFESSIONAL INVESTORS LIFE INSURANCE
CO.,

Licensee

) O R D E R

) SOURCE: Artesian Well
) Located in NW1/4NW1/4,
) Sec. 29, T9S, R17E, B.M.

) COUNTY: Twin Falls

This matter having come before the Idaho Department of Water Resources (Department) as a result of investigation by the Department, the Department finds as follows:

1) Professional Investors Life Insurance Co., P.O. Box 2888, Tulsa, Oklahoma is the current owner of the artesian well located in the NW1/4 of the NW1/4 of Section 29, Township 9 South, Range 17 East, B.M.

2) Said artesian well produces warm water.

3) License of Water Right Number 36-7130 authorizes the maximum diversion of 6.0 cubic feet per second of water from said artesian well to be used for fish propagation.

4) When the control valve for the artesian well is closed, the casing vibrates severely. Such vibrations may cause damage to the casing.

5) If the casing is severely damaged, flow from the well could become uncontrollable, resulting in waste of the ground water.

ORDER, Page 1

EXHIBIT B

6) On October 25 and December 12, 1984, Department personnel inspected the well and appurtenant facilities. The Department found that water was flowing from the well with no apparent beneficial use.

7) Matter expressed herein as a finding of fact which is later deemed to be a conclusion of law is hereby made as a conclusion of law.

CONCLUSIONS OF LAW

Based on the foregoing findings of fact, the Department makes the following conclusions of law:

Applicable Legal Principles

1) Idaho Code Section 42-237a (Supp. 1984) states in part as follows:

In the administration and enforcement of this act and in the effectuation of the policy of this state to conserve its ground water resources, the director of the department of water resources is empowered:

a. To require all flowing wells to be so capped or equipped with valves that the flow of water can be completely stopped when the wells are not in use.

b. To require both flowing and nonflowing wells to be so constructed and maintained as to prevent the waste of ground waters through leaky wells, casings, pipes, fittings, valves or pumps either above or below the land surface.

c. To prescribe uniform scientific methods to determine water levels in and calculate waters withdrawn from wells.

d. To go upon all lands, both public and private, for the purpose of inspecting wells, pumps, casings, pipes, and fittings, including wells used or claimed to be used for domestic purposes.

e. To order the cessation of use of a well pending the correction of any defect that the director of the department of water

resources has ordered corrected.

f. To commence actions to enjoin the illegal opening or excavation of wells or withdrawal or use of water therefrom and to appear and become a party to any action or proceeding pending in any court or administrative agency when it appears to the director of the department of water resources that the determination of such action or proceeding might result in depletion of the ground water resources of the state contrary to the public policy expressed in this act.

2) Idaho Code, Section 42-1601 (1977) states as follows

Any artesian well, which is not capped, equipped or furnished with such mechanical appliance as will readily control the flow of water from such well, is hereby declared to be a common nuisance; and any artesian well, which is capped, equipped or furnished with a mechanical appliance for arresting and preventing the flow of water therefrom, which cap, equipment or mechanical appliance has not been approved by the director of the department of water resources, is hereby declared to be a common nuisance: provided, however, that in cases where the waters of artesian wells are reservoirized and controlled so that waste is not committed and a common nuisance created and where the pressure of water in a reservoir automatically causes wells to cease to flow, such mechanical contrivances may be dispensed with by obtaining the consent of the director of the department of water resources.

3) Idaho Code, Section 42-1602 (1977) states as follows:

It shall be unlawful for the owner, tenant, or occupant of the land upon which such well is situated to cause, permit, or suffer, such common nuisance, or suffer or permit it to remain or continue; and it shall be unlawful for any person owning, possessing or occupying any land, upon which is situated an artesian well, to cause, suffer or permit the water to unnecessarily flow from such well or to go to waste: provided, however, that it shall be lawful for any such person to insert a stop and waste cock, not exceeding one (1) inch in diameter, in the piping of such well and to take and use water therefrom through such stop

or waste cock at any time for household, stock or domestic purposes.

4) Idaho Code, Section 42-1603 (1977) states as follows:

Every person referred to in section 42-1602 shall apply to the director of the department of water resources for the approval of any installed or proposed mechanical device for controlling the flow of water from such artesian well; and in such application shall describe the cap, equipment or mechanical appliance, with which such well is equipped or with which it is proposed to equip any such well, and shall change, alter or install only such equipment as shall be approved by the director of the department of water resources.

5) Idaho Code, Section 42-1604 (1977) states as follows:

For the purposes of this chapter, an artesian well is defined to be any artificial hole made in the ground through which water naturally flows from subterranean sources to the surface of the ground for any length of time.

6) Idaho Code, Section 42-1605 (1977) states as follows:

Any person violating any of the provisions of this chapter shall, for each offense, be guilty of a misdemeanor and upon conviction shall be punished by a fine of not less than twenty-five dollars (\$25.00) and not more than \$300, or by imprisonment in the county jail for a period of not more than six (6) months, or by both such fine and imprisonment.

Application of Legal Principles

7) Water flowing from said artesian well is not being put to beneficial use and is thus going to waste in violation of Idaho Code Section 42-1602.

8) If the control valve for said artesian well is closed, damage to the well and uncontrolled flow could result. A threatened violation of Idaho Code Section 42-1601 exists.

9) Said well should be modified such that the flow can be shut-in without damage to the well or the well should be abandoned to stop waste of the ground water resources.

10) Matter expressed herein as a conclusion of law, which is later deemed to be a finding of fact, is hereby found as a fact.

ORDER

IT IS HEREBY ORDERED as follows:

1) Professional Investors Life Insurance Co. shall modify construction of the well by an approved method such that the control valve can be closed with no damage to the well; or

2) Professional Investors Life Insurance Co. shall abandon the well by an approved method such that no waste of the ground water can occur.

3) Professional Investors Life Insurance Co. shall submit to the Department of Water Resources a plan either for well modification or for well abandonment within thirty (30) calendar days of the date of service of this order. Said plan shall be prepared by an engineer licensed by the state of Idaho or by a geologist licensed by the state of Idaho. Said plan shall also include a schedule for completing the well modification or the well abandonment on or before April 30, 1985.

4) The Department of Water Resources shall approve or modify and approve said plan and Professional Investors Life Insurance Co. shall proceed with the well modification or well abandonment in accordance with the plan as approved or as

modified and approved.

DATED this 1st day of FEBRUARY, 1985.


NORMAN C. YOUNG, Administrator
Resources Administration
Division

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region

1041 Blue Lakes Blvd. N.
Twin Falls, Idaho 83301
(208) 734-3578

JULY 8, 1983

COLLEGE OF SOUTHERN IDAHO
P.O. BOX 1238
TWIN FALLS ID 83301

RE: Permit No. 47-7478

Dear Permit Holder:

We acknowledge receipt of your statement submitted as proof of beneficial use for the above referenced permit.

Before a license can be issued, a field examination must be made by a representative of this department.

A field examiner will contact you to arrange to examine your system.

If you have any questions regarding the field examination, please contact this office by phone at 734-3578 or in person at our office at 1041 Blue Lakes Blvd. N. Twin Falls, Idaho.

Sincerely,
s/Mary A. Newby
Secretary

MICROFILMED

DEPARTMENT OF WATER RESOURCES

The Idaho Department of Water Resources will consider this card as a statement that the permit holder(s) has completed development to the extent shown below of Permit No. 47-7478

Name(s) of Permit Holder: College of So. Idaho

Post Office Address: P. O. Box 1238

Falls, Idaho 83301 Tel. No. (208) 733-9554

Source of Water: Geothermal artesian well

Extent of Use: ☐ Domestic (number of households)
☐ Stockwater (number and type of stock)
☐ Irrigation (acres)
☐ Other Heating college bldgs. & aquaculture

Measuring Device: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ No
 Access Port: Required? ☒ Yes ☐ No Installed? ☐ Yes ☐ No

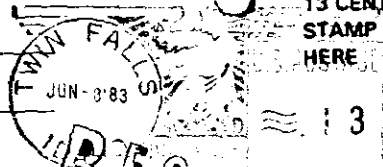
The above information is a true statement of the extent to which the above numbered permit has been developed.

June 7, 1983
 Date

Coll. of So. Ida. by Bob McManis
 Signature of Permit Holder

College of Southern Idaho
Physical Plant Department
P. O. Box 1238
Twin Falls, Idaho 83301

PLACE
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HERE



MICROFILMED



RECEIVED

JUN 9 1983

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

STATEHOUSE
BOISE, IDAHO 83720
(208) 334-4440
CERTIFIED MAIL

COLLEGE OF SOUTHERN IDAHO
P.O. BOX 1238
TWIN FALLS, ID 83301

138647

PROOF DUE NOTICE

MAY 31, 1983

DEAR PERMIT HOLDER:

ONE OF THE CONDITIONS OF APPROVAL OF YOUR WATER PERMIT NO. 47-7478 WAS THAT PROOF OF THE EXTENT OF YOUR BENEFICIAL USE MUST BE SUBMITTED TO THIS OFFICE ON OR BEFORE AUGUST 01, 1983. (SEE LAST PAGE OF YOUR APPROVED PERMIT OR YOUR LAST APPROVED EXTENSION REQUEST). ENCLOSED IS A POSTCARD WHICH 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, MORE THAN ONE EXTENSION OF TIME CAN BE GRANTED. AN EXTENSION OF TIME REQUEST FORM IS ENCLOSED FOR YOUR CONVENIENCE.

EITHER THE BENEFICIAL USE POSTCARD OR A 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

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

COMMENCEMENT OF WORKS

Permit No. 47-7478

Name(s) of Permit Holder(s): _____

Post Office Address: _____

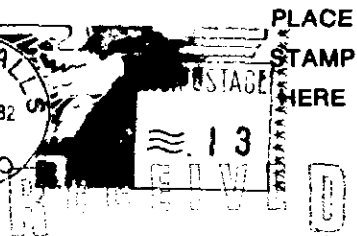
Tel. No. _____

- ☒ I hereby certify that construction of diversion works for the above referenced permit began on 7/25/18 ~~August 1980~~ (date). I understand that I must continue to develop the water system with due diligence to maintain a valid permit.
- ☐ 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.**

8/2/82
Date

Signature of Permit Holder



PLACE
STAMP
HERE



AUG 4 1982

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 373 W. Franklin Street, Boise, Idaho

JOHN V. EVANS
Governor

C. STEPHEN ALLRED
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 384-2215

August 16, 1978

Re: Permit No. 47-7478

College of Southern Idaho
Box 1238
Twin Falls, ID 83301

Gentlemen:

Your approved copy of your Application for Permit is enclosed and we direct your attention to the conditions of approval on the fourth page.

Please note the special condition requiring you to install an access port or other device to provide for the installation of measuring equipment by the Department. The Department will provide the specifications for the installation to you.

The exercise of this permit may also be affected by the court's determination of water rights in the case of Idaho Power Company v. State of Idaho, et al., Civil No. 62237, currently pending before the District Court of Ada County.

Idaho Power officials tell us that because of Case No. U-1006-124 filed before the Idaho Public Utilities Commission, Idaho Power Company is asking the District Court of Ada County to determine whether the Power Company's water rights on the Snake River are protected against subsequent upstream appropriations in the waters of the Snake River and surface and subterranean tributaries between Milner Dam and Hells Canyon.

Since the use of water under your permit may affect the flows in this reach of the Snake River, the final decision in Idaho Power Company v. State of Idaho, et al. (Ada County Civil No. 62237) may determine to what extent the exercise of your permit may be subject to the water rights of Idaho Power.

While the Ada County court is examining this question, Idaho Power Company has not filed a specific protest to your permit. However, the Department of Water Resources has been advised that the Power Company is not waiving any of its rights to contest or limit the exercise of your permit or a subsequent license or water right. If you have any questions, please let us know.

Sincerely,


L. GLEN SAXTON
Chief, Operations Bureau

LGS:kw Enclosure

Affidavit of Publication

STATE OF IDAHO,
COUNTY OF TWIN FALLS

No 7171

I, Nola S. Laughlin being first duly sworn upon
oath, depose and say that I am Print. Clerk of the TIMES-NEWS,
published daily, except Saturday, at Twin Falls, Idaho, and do solemnly swear that a copy
of the notice of advertisement, as per clipping attached, was published in the regular and
entire issue of said newspaper, and not in any supplement thereof, for two
consecutive Thursdays, commencing with the issue dated
June 22, 19 78, and ending with the issue dated
June 29, 19 78.

And I do further certify that said newspaper is a consolidation, effective February 16,
1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the
Twin Falls News, published theretofore daily except Monday, both of which newspapers
prior to consolidation had been published under said names in said city and county con-
tinuously and uninterruptedly during a period of more than twelve consecutive months, and
said TIMES-NEWS, since such consolidation, has been published as a daily newspaper
except Saturday, under said name in said city and county continuously and uninterruptedly.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each
week has been designated as the day on which legal notice by law or by order of any
court of competent jurisdiction within the state of Idaho, to be published weekly, will be
published; and that at the head of the editorial column of said combined newspapers, and
in each issue thereof, Thursday is announced as the day on which said legal notices will
be published.

Nola S. Laughlin
Subscribed and sworn to before me on this June day of
June, 19 78.

Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho

RECEIVED

JUN 29 1978

Dep. Clerk of Court
Southern District Office

MICROFILMED

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 11/10/78 BY 52-100

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that College of Southern Idaho
Twin Falls, ID 83301
has on 6/12/78 submitted Application No. 47-7478
for a permit to appropriate 5.00 cubic feet per second ~~acres feet per annum~~
of water from ground water
by means of well, motor, & pump
within the NW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 4, Twp. 10S, Rge. 17E., B.M., Twin Falls County

to be used from Jan. 1 to Dec. 31 for space heating and fish propagation for
for research purposes only

within the N $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 4, Twp. 10S, Rge. 17E., B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Resources, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before July 10, 1978.

C. STEPHEN ALLRED

Director

Published in the Times News
on 6/22 and 6/29/78

APPROVED

June 12, 1978

Times News
P. O. Box 548
Twin Falls, ID 83301

Re: Application for Permit No. 47-7478 - College of Southern Idaho

Gentlemen:

Enclosed you will find a legal notice which we wish to have published once a week for two consecutive weekly issues of your newspaper. We have inserted the publication dates allowing ample time for you to submit us a galley proof for review before publication.

After sending us a galley proof, proceed with the publication on the dates we have inserted, assuming the notice is correct. If we have any corrections, we will notify you before the first publication. If you cannot publish the notice on the proposed dates, please contact us immediately.

In order to receive payment, an affidavit of publication must be submitted to the Department along with the publication bill.

Sincerely,

Terry G. Blau
Acting Southern Region Supervisor

TGB:sm

Enc.

RECEIVED