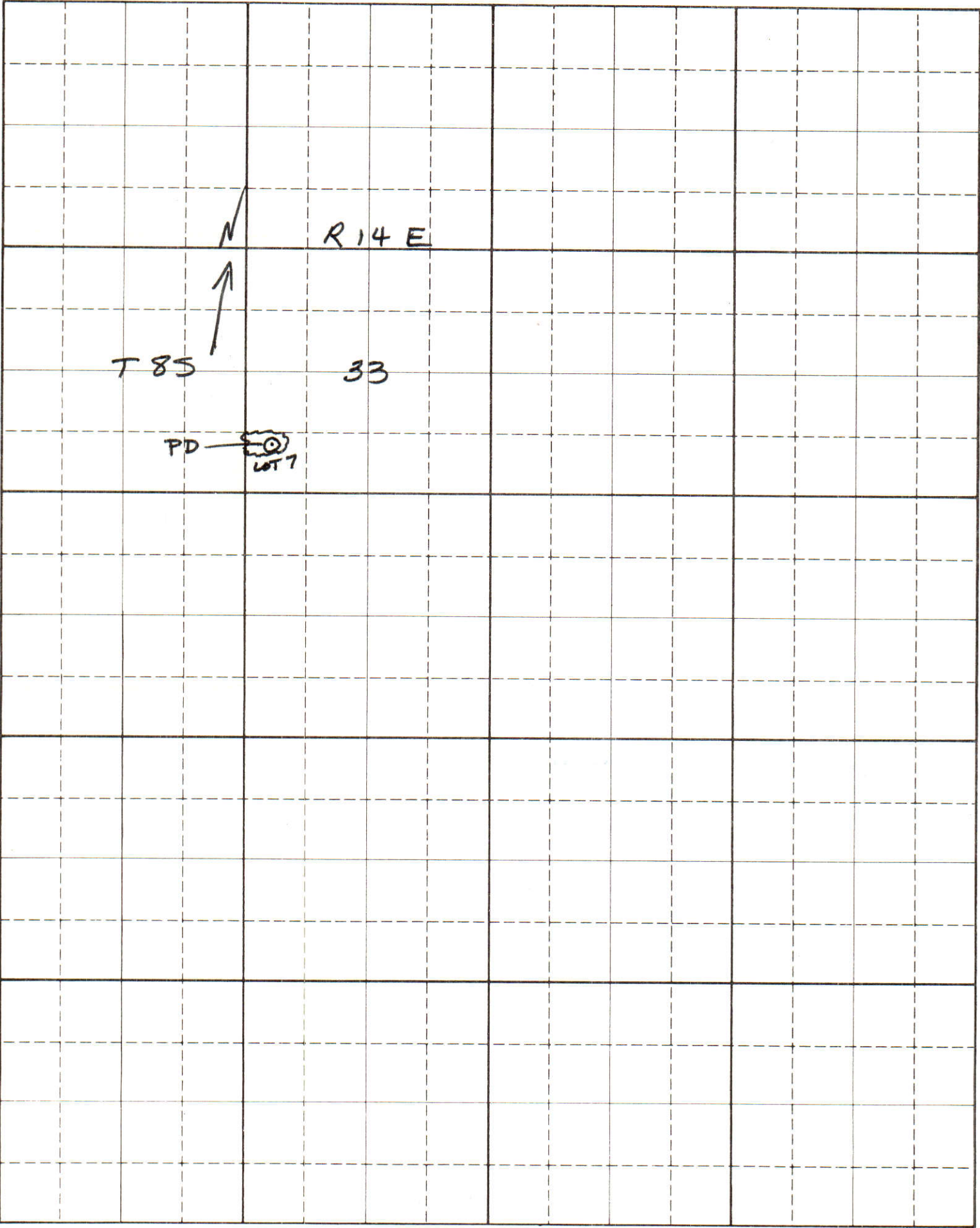


11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

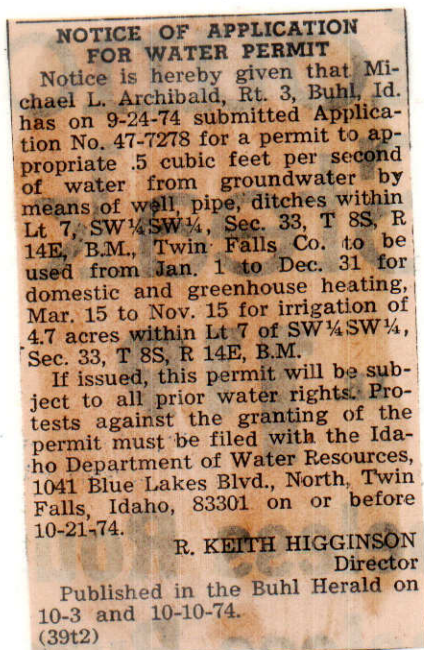


Scale: 2 inches equal 1 mile

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.

Michael L. Archibald
(Applicant)

AFFIDAVIT of PUBLICATION



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OCT 11 1974

Department of Water Resources
Southern District Office

MICROFILMED

STATE OF IDAHO
County of Twin Falls

ss.

I, **Robert E. Bailey**, do solemnly swear that I am the printer and editor of **THE BUHL HERALD**, a weekly newspaper of general circulation, published once each week at Buhl, Idaho; that the notice attached hereto was published in said newspaper two.....consecutive weeks, the first publication having been made on the third.....day of October....., 19..74...., and the last publication having been made on the tenth.....day of October....., 19..74...; that said notice was published in the regular and entire issue of every number of the paper during the period and time of publication, and that the said notice was published in the newspaper proper, and not in the supplement thereof.

That said newspaper has been printed and published continuously in **Buhl, Twin Falls County, Idaho**, for a period of more than 78 weeks prior to the first publication of the attached notice.

Subscribed and sworn to before me this

.....tenth.....day of October, 19..74....

Robert E. Bailey
Notary Public.

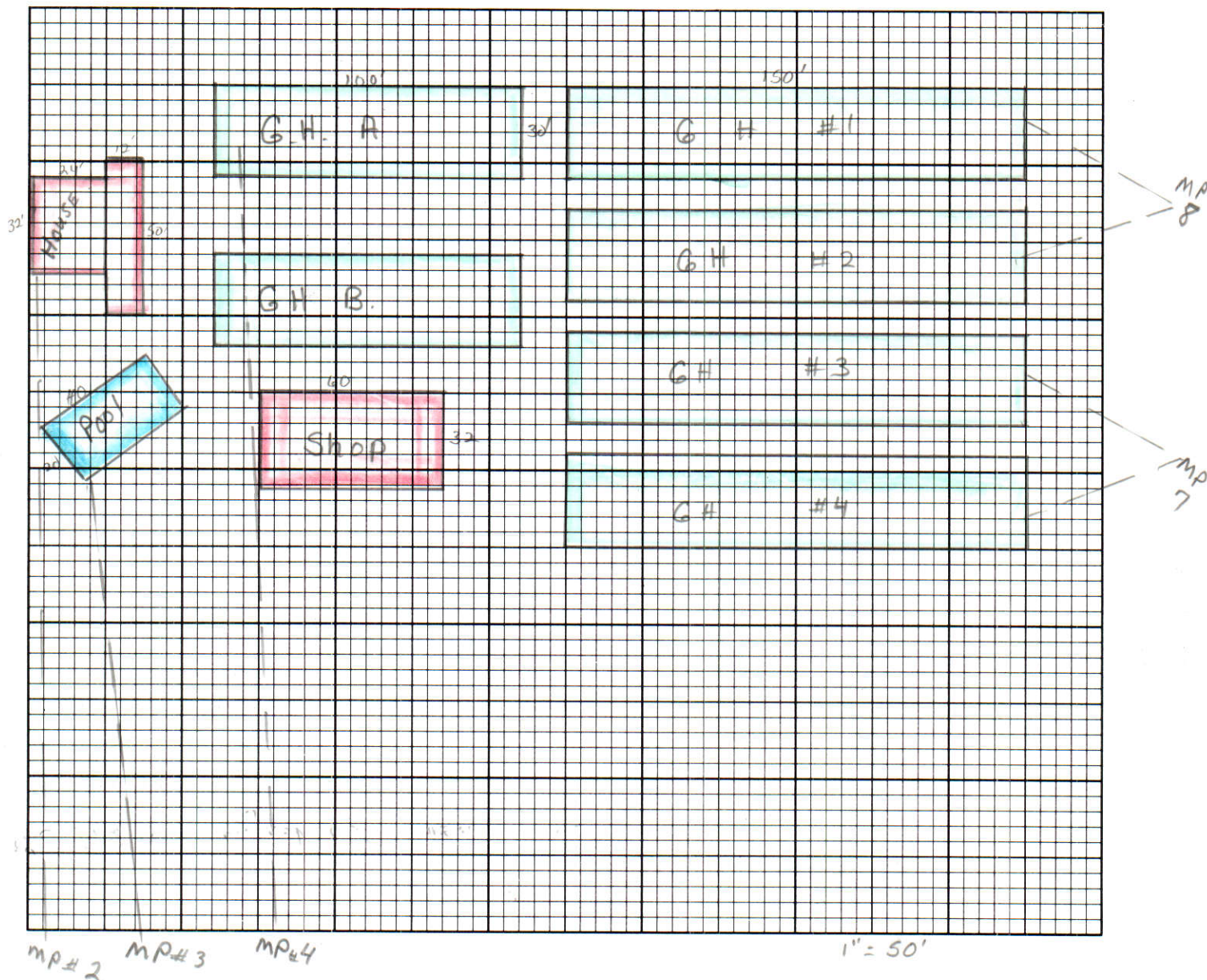
Buhl, Idaho

Residing at

April 17, 1977

My Commission Expires

10. Other water rights on these lands 47-7577
11. Other water right diverted from same p.d. 47-7577
12. **Diversion and Delivery System Diagram:** Indicate all major components and distances between components. Indicate ditch size/pipe i.d. as applicable. Indicate on systems with measurement port the distance between the port and the nearest component/pipe bend/restriction both upstream and downstream, and the inside pipe diameter at the measurement port. On multiple diversion systems indicate how diversion systems are connected.



13. ☐ Photo of Diversion & System Attached ☒ Aerial Photo of Place of Use Attached or Map of Irrigated Acreage Attached
14. Remarks Fert exam for 47-7577 was done at the same time
Water from this source is not used for Domestic use or for irrigation
Applicant would like the balance of the water applied for for Heating (ie
0.5cfs - .43cfs = 0.07cfs and The water applied for domestic & irrigation use
to be applied to Recreational use (ie Swimming pool)
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 3-4-86
Consultant's License Number _____
IDWR Director's Authorization to Conduct
Beneficial Use Examination _____

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MAY 21 1993

CONSULTANT SEAL

MAY 21 1993

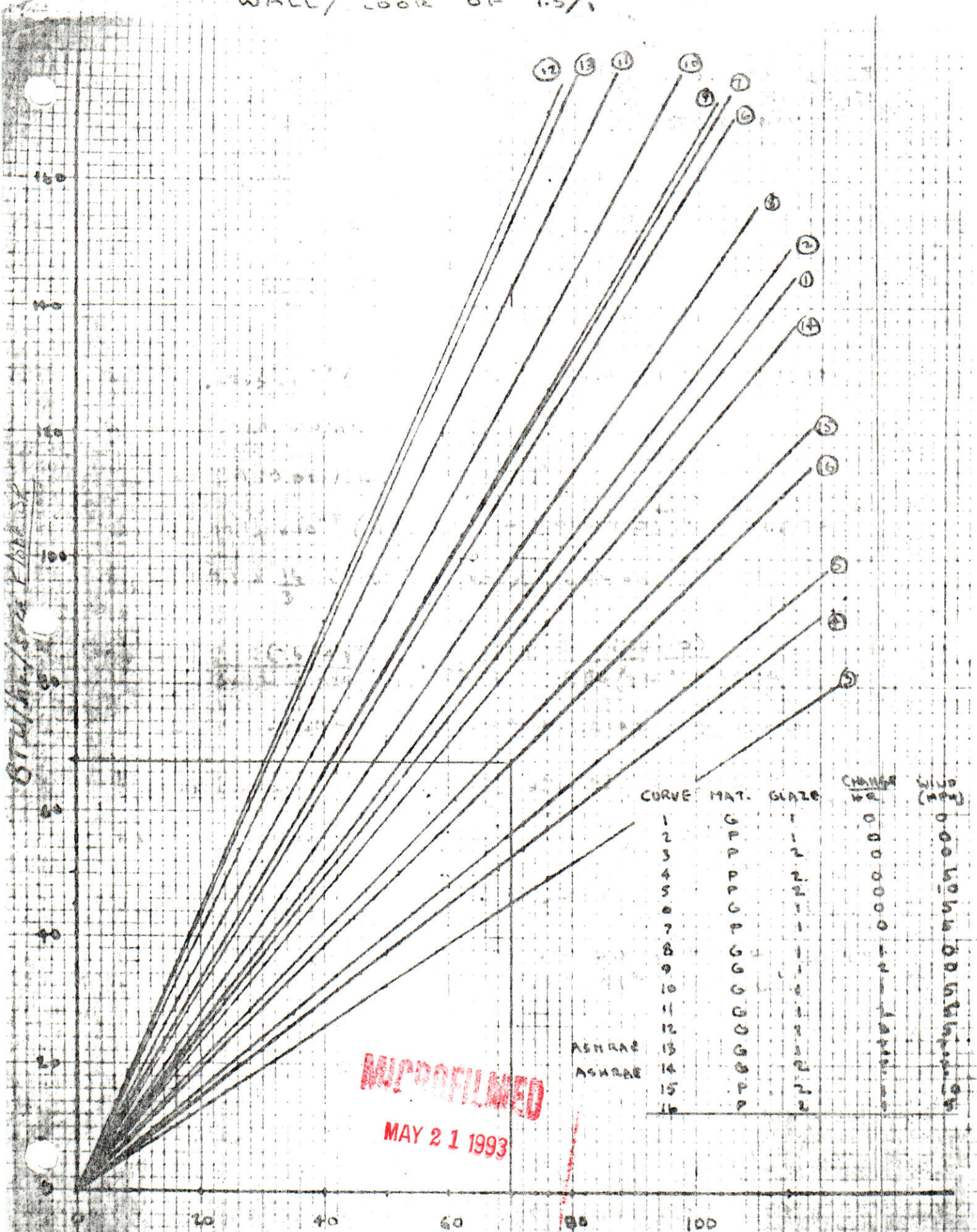
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85.14E

DESIGN HEAT REQUIRED FOR GREENHOUSE WALL / ROOF OF 1.5/1

STUDY OF GREENHOUSE WALL / ROOF



ASHRAE
ASHRAE

CURVE	MAT.	GLAZE	CHANGE W.R.	WIND (W.R.)
1	G	1	00000000	00000000
2	P	2	00000000	00000000
3	P	2	00000000	00000000
4	P	2	00000000	00000000
5	P	2	00000000	00000000
6	G	1	00000000	00000000
7	P	1	00000000	00000000
8	G	1	00000000	00000000
9	G	1	00000000	00000000
10	G	1	00000000	00000000
11	G	1	00000000	00000000
12	G	1	00000000	00000000
13	G	1	00000000	00000000
14	G	2	00000000	00000000
15	P	2	00000000	00000000
16	P	2	00000000	00000000

INSIDE MINUS ΔT OUTSIDE TEMPERATURE (°F)

BLAINE BOLEY, JR.
TELEPHONE 432-5581

FRED HENRY
TELEPHONE 432-5581

BOLEY & HENRY

WELL DRILLING
MURTAUGH, IDAHO 83344

JUL 15 1983

Attn: John Beal

John I wasn't sure if you wanted a diagram of the Mike Archibald well, permit #A7-7577 after it was completed or not. Anyway here it is, the well has been completed and you can inspect it any time. I have enclosed a copy of the state log for your information, the original has been sent to the Twin Falls office.

Sincerely,
Blaine Boley Jr.

Blaine Boley Jr.

flows

1-7 G.P.M.

increases to 40 G.P.M. by

5' no increase until

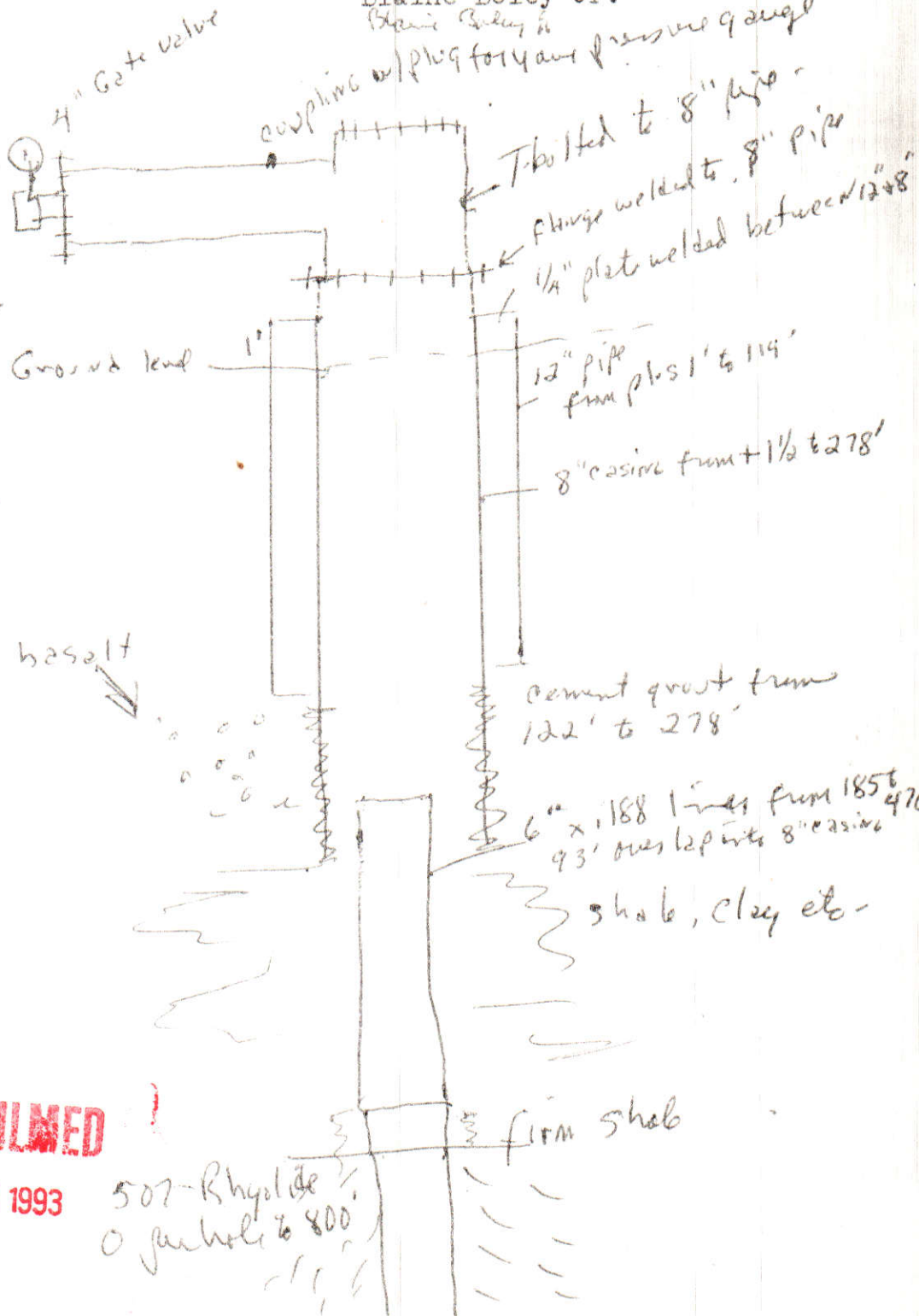
10' when flow begins to pick

up, flow is 80 G.P.M. at 550'

increases at 692, 710 & 732

highest flow at 752' very

high increases after 752'



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507-Rhyolite
0 feet hole to 800'

firm shab

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE
WATER RIGHT NO. 47-07278

Priority: September 24, 1974 Maximum Diversion Rate: 0.50 CFS
Maximum Diversion Volume: 73.1 AF

This is to certify, that MICHAEL L ARCHIBALD
RT 3

BUHL ID 83316 has complied with the terms and conditions
of the permit, issued pursuant to Application for Permit dated September 24, 1974; and
has submitted Proof of Beneficial Use on September 11, 1979. An examination indicates
that the works have a diversion capacity of .530 cfs of water from a **GROUNDWATER**
source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
HEATING	01/01 to 12/31	0.50 CFS	73.1 AF

LOCATION OF POINT(S) OF DIVERSION: SWSW , Sec. 33, Township 08S, Range 14E
TWIN FALLS County

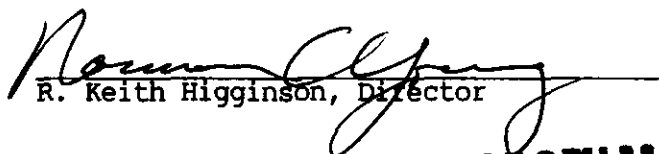
PLACE OF USE: HEATING
TWN RGE SEC

08S 14E 33 Lot 7(SWSW)

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. Water is used to heat 1 home, 6 greenhouses, a shop and a swimming pool.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 9TH
day of APRIL, 1993.


R. Keith Higginson, Director

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MAY 21 1993

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF THE BANBURY HOT SPRINGS	)	ORDER SUPPLEMENTING
	)	CONDITIONS OF APPROVAL FOR
GROUNDWATER MANAGEMENT AREA	)	PERMIT TO APPROPRIATE
	)	GROUNDWATER NO. 47-7278

WHEREAS, on April 12, 1982, the Director of the Department of Water Resources created the Banbury Hot Springs Groundwater Management Area (BHSGWMA); and,

WHEREAS, reported problems have shown a need for increased regulation of existing and future wells within the boundaries of the BHSGWMA; and,

WHEREAS, Department records show a number of outstanding water right permits for which development has not yet occurred; and,

WHEREAS, the above-referenced Permit represents the potential for additional well drilling within the boundaries of the BHSGWMA; and,

WHEREAS, leakage and intermingling between groundwater aquifers within the BHSGWMA has been determined to be a significant problem for which careful monitoring and protection is required;

NOW, THEREFORE, the conditions of approval for Permit No. 47-7278 are hereby supplemented with the following additional conditions:

- 1) Thirty days prior to drilling or modification of a well, the permit holder shall notify the Department of Water Resources of who the driller will be and when drilling is proposed to commence.
- 2) Prior to drilling, the permit holder and/or driller shall submit to the Department a drilling prospectus which includes proposed casing and grouting procedures. The well shall not be drilled without approval of the prospectus.
- 3) For wells presently being constructed or modified, the permit holder shall immediately advise the Department of the name of the driller or drilling firm, proposed date of completion, and shall provide details of well construction to date for Department review and approval prior to removal of the drill rig from the site.
- 4) Prior to well completion, the permit holder and/or driller shall request inspection and approval of the well construction by the Department. Construction shall not be considered to be completed

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until approved by the Department.

- 5) Failure to comply with any of the conditions identified above may result in cancellation of the permit.

Dated this 2nd day of May, 1983.

L. Glen Saxton

L. GLEN SAXTON
Chief, Operations Bureau

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MAY 21 1993

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF REMOVAL OF THE MEASURING }
DEVICE REQUIREMENT FOR PERMIT NO. 48-7278 }

ORDER

WHEREAS, it has been determined by the Department of Water Resources that a measuring device is not required at this time for a determination of the quantity of water appropriated under said permit;

IT IS, THEREFORE, HEREBY ORDERED that the condition of approval that a measuring device of a type approved by the Department be permanently installed and maintained as part of the diverting works, be and is, REMOVED from said permit.

Dated this 28th day of August, 1978.

L. Glen Saxton
L. GLEN SAXTON

Chief, Operations Bureau

MICROFILMED

Identification No. _____

Application No. 47-7278

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 Michael L. Archibald Phone: 543-5083
post office address 3, Buhl, Id.
2. Source of water supply groundwater which is a tributary of _____
3. a. Location of point of diversion is SW $\frac{1}{4}$ of Lot 7 SW $\frac{1}{4}$ of Section 33 Township 8S
Range 14E B.M. Twin Falls County; additional points of diversion if any: _____

- b. If water is not consumed, it will be discharged into _____ at a point in _____ $\frac{1}{4}$
of _____ $\frac{1}{4}$ of Section _____ Township _____ Range _____ B.M. _____
4. Water will be used for the following purposes:
Amount .04 cfs for domestic purpose from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount .094 cfs for irrigation purpose from Mar. 15 to Nov. 15 (both dates inclusive)
(cfs or acre-feet per annum)
Amount .5 cfs for heating greenhouse purpose from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. .5 cubic feet per second and/or
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. _____
well, pipe and ditches

- 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 10 inches; proposed depth of well is 500 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 \$ 8,000.
8. Description of proposed uses:
a. If water is **not** for irrigation:
(1) Give the place of use of water: SW $\frac{1}{4}$ of Lot 7 SW $\frac{1}{4}$ of Section 33 Township 8S
Range 14E 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 one.
(5) If water is to be used for other purposes describe: _____

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

[illegible]

Total number of acres to be irrigated 4.7

c. Describe any other water rights used for the same purposes as described above. _____

Shares in Banbury Pipe Co.

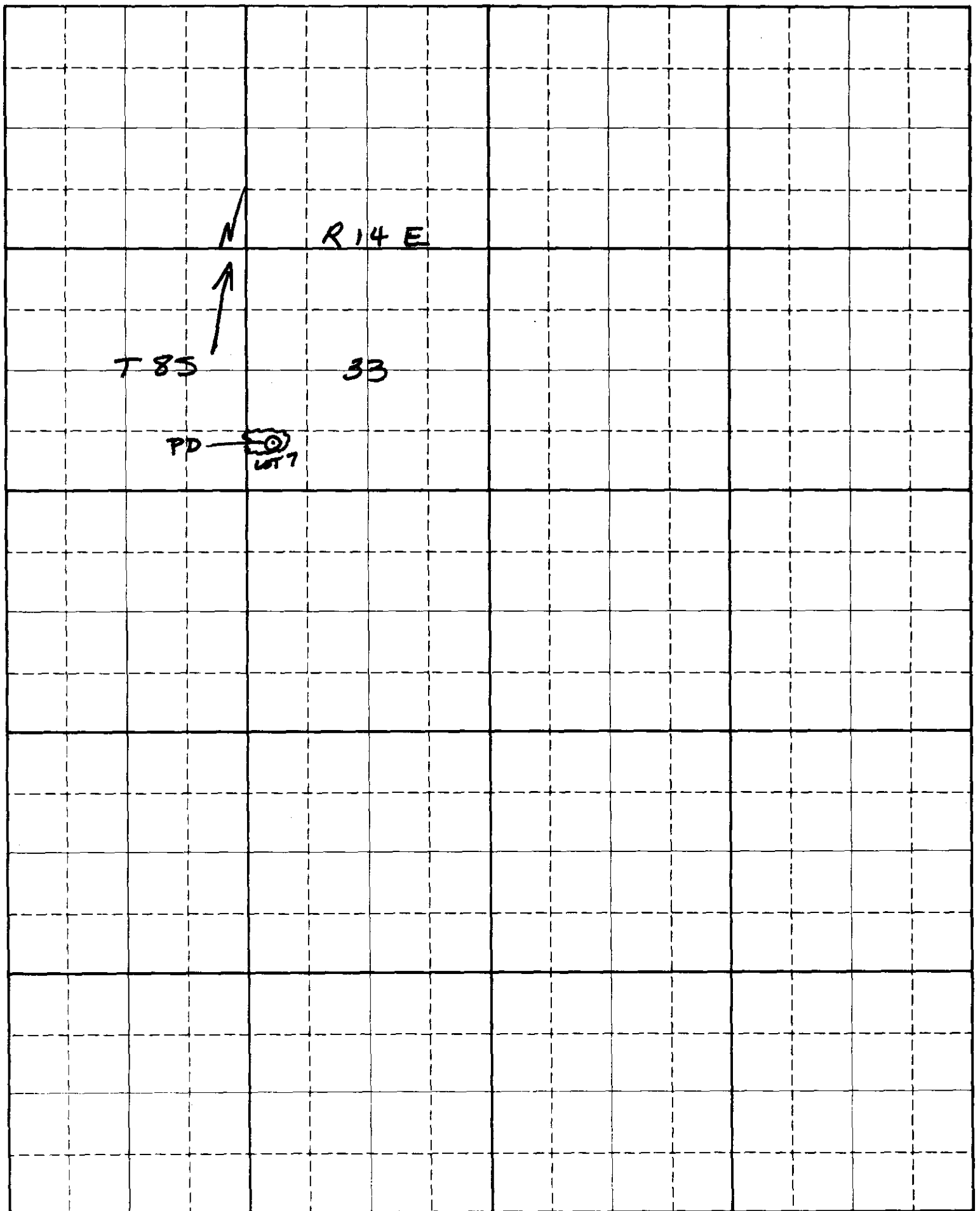
9. a. Who owns the property at the point of diversion applicant

b. Who owns the land to be irrigated or place of use applicant

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

10. Remarks _____

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.

Michael L. Archibald
(Applicant)

9-24-1974
Proposed Priority _____

Received by LT Date 9-24-74 Time 2:00 PM

Preliminary check by DMH Fee \$ 35.00 (14607) (14610)

Receipted by LT Date 9-19-74 (9-24-74)

K9+ Publication prepared by LT Date 9-25-74

Published in Buhl Herald

Publication dates 10-3 & 10-10-74

Publication approved _____ Date _____

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by W 30F

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. 47-7278, 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 November 1, 19 79.

c. Other: A measuring device of a type approved by this Department shall be permanently installed and maintained as part of the diverting works.

2. Denial of said application is for the following reasons: _____

Witness my hand this 5 day of November 19 74


Director

AFFIDAVIT of PUBLICATION

STATE OF IDAHO
County of Twin Falls

} ss.

I, **Robert E. Bailey**, do solemnly swear that I am the printer and editor of THE BUHL HERALD, a weekly newspaper of general circulation, published once each week at Buhl, Idaho; that the notice attached hereto was published in said newspaper two consecutive weeks, the first publication having been made on the third day of October, 1974, and the last publication having been made on the tenth day of October, 1974; that said notice was published in the regular and entire issue of every number of the paper during the period and time of publication, and that the said notice was published in the newspaper proper, and not in the supplement thereof.

That said newspaper has been printed and published continuously in **Buhl, Twin Falls County, Idaho**, for a period of more than 78 weeks prior to the first publication of the attached notice.

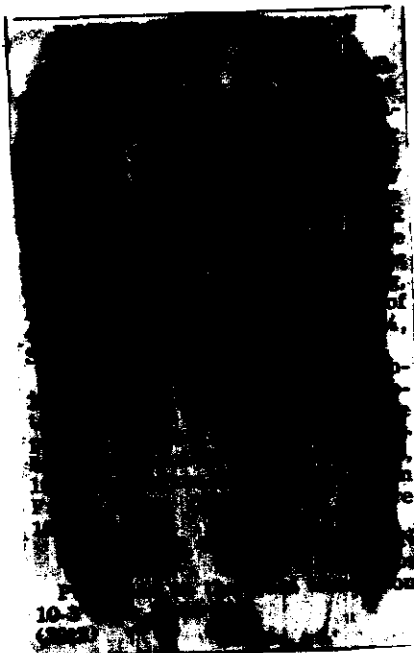
Robert E. Bailey
Subscribed and sworn to before me this

tenth day of October, 1974

Robert E. Bailey
Notary Public.

Buhl, Idaho
Residing at

April 17, 1977
My Commission Expires



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OCT 11 1974

Department of Law Resources
Southern District Office

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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

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

April 12, 1993

MICHAEL L ARCHIBALD
RT 3
BUHL ID 83316

RE: WATER RIGHT NO. 47-07278

Dear Water Right Holder(s):

Enclosed herewith is a copy of the Water Right License issued on the above referenced permit.

Sincerely,

A handwritten signature in cursive script that reads 'Pamela Skaggs'.

PAMELA SKAGGS
Water Resource Agent

PS:cz

Enclosure

RECEIVED

MAY 21 1993

May 11, 1992

MICHAEL L ARCHIBALD
RT 3
BUHL ID 83316

RE: WATER RIGHT NO. 47-07278

Dear Water Right Holder(s):

Enclosed is a draft copy of the license proposed to be issued on the above referenced water right.

This right is currently being reviewed by this office for licensing. The enclosed preliminary copy is subject to change upon further administrative review.

We ask that you review the proposed license and if you do not concur with the information, please let us know within 10 days.

Sincerely,

PAMELA SKAGGS
Technical Records Specialist

PS:cz

Enclosure

MICHAEL L ARCHIBALD
MAY 21 1993

MEMORANDUM

TO: File 47-7278
FROM: Sharla
DATE: May 4, 1992
RE: License Issuance

This file is located within the Banbury Hot Springs Groundwater Management Area and therefore was included in the mailing of the order supplementing conditions of approval on May 2, 1983.

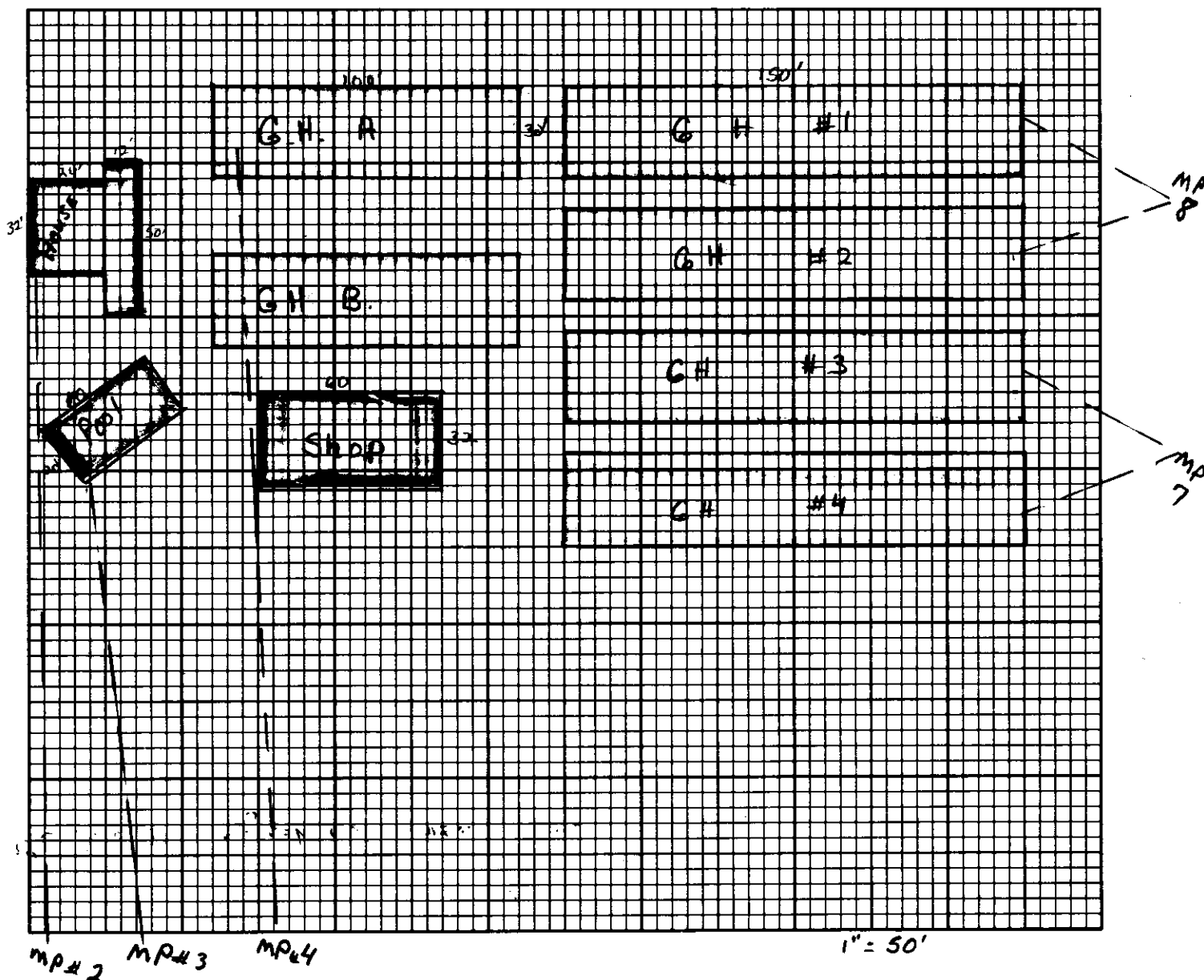
Proof of beneficial use for this right was filed in September of 1979, prior to the creation of the GWMA, therefore, the supplemental conditions are not applicable and a license can be issued.

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Total Acres

10. Other water rights on these lands 47-7577
11. Other water right diverted from same p.d. 47-7577
12. **Diversion and Delivery System Diagram:** Indicate all major components and distances between components. Indicate ditch size/pipe i.d. as applicable. Indicate on systems with measurement port the distance between the port and the nearest component/pipe bend/restriction both upstream and downstream, and the inside pipe diameter at the measurement port. On multiple diversion systems indicate how diversion systems are connected.



13. ☐ Photo of Diversion & System Attached

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

14. Remarks Feld exam for 47-7577 was done at the same time
Water from this source is not used for Domestic use or for irrigation
Applicant would like the balance of the water applied for for Heating (ie
0.5cfs - .43cfs = 0.07cfs and The water applied for domestic & irrigation use
To be applied to Recreational use (ie Swimming pool).

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 Larry A. Blum Date 3-4-86

Consultant's License Number _____

IDWR Director's Authorization to Conduct

Beneficial Use Examination _____

Date

CONSULTANT SEAL

UNPROCESSED

MAY 21 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

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JUN 30 1986

47-7278
Permit No.

Department of Water Resources

1. Measurement Calculations

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

 $Q_{heating}$

$$\begin{aligned} \text{Home } 0.1352 \text{ ft}^2 / 19 \text{ sec} &= 0.0071 \text{ cfs} \\ \text{A+BGH, Shop } 0.576 \text{ ft}^2 / 4 \text{ sec} &= 0.144 \text{ cfs} \\ \text{142 G.H. } 0.576 \text{ ft}^2 / 3.5 \text{ sec} &= 0.1646 \text{ cfs} \\ \text{344 G.H. } 0.576 \text{ ft}^2 / 5 \text{ sec} &= 0.1152 \text{ cfs} \\ &= 0.4309 \text{ cfs} \end{aligned}$$

 $Q_h \text{ total}$ $Q_{recreation}$

$$\text{Swimming pool } 0.576 \text{ ft}^2 \text{ in } 5.5 \text{ sec} = 0.1047 \text{ cfs}$$

Allow 0.5 cfs = Amt. Applied for

b) Volume Calculations for Irrigation:

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

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

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

c) Volume Calculations for Other Uses: (See Form 219A Item #7)

$$\Delta T = \frac{\text{Heat Load}}{500 \times Q_{gpm}} = \frac{1,826,856 \text{ BTU/hr}}{500 \times 193.39 \text{ gpm}} = 18.89^\circ \text{F}$$

$$\text{Ann HL} = \frac{Q \times H_L \times 24}{T_i - T_o} = \frac{6146 \times 1,826,856 \text{ BTU/hr} \times 24 \text{ hr/day}}{70 - 0} = 3,849,550,964 \text{ BTU}$$

$$\text{Ann Vol} = \frac{\text{Ann. HL}}{\Delta T \times 62.4 \text{ lb/ft}^3} = \frac{3,849,550,964 \text{ BTU}}{18.89 \times 64} = \frac{3,184,183.897 \text{ ft}^3/\text{ann}}{43,560 \text{ ft}^3/\text{AF}} = 73.1 \text{ AF/ann}$$

2. Overlap Review

a) Other water rights with same place of use:

b) Other water rights with same point of diversion:

c) Analysis:

Theoretical Requirement

Area Green houses + Shop 19,920 Sq ft

Green house Heat Loss = 68 BTU/hr/ft² (See Curve attached)

$$\text{Heat Load Req} = 25,920 \text{ ft}^2 \times 68 \text{ BTU/hr/ft}^2 = 1,762,560 \text{ BTU/hr}$$

$$Q_{gh} = \frac{\text{Heat Load Req}}{500 \times \Delta T} = 0.34 \text{ cfs}$$

$$\Delta T = \text{Source T} - \text{inside T} - \text{Approach T} = 20^\circ \text{F}$$

$$\Delta T = 113^\circ \text{F} - 70^\circ \text{F} - 20^\circ \text{F} = 23^\circ \text{F}$$

$$Q_{hh} = \frac{\text{HLR}}{500 \times \Delta T} = 0.0125 \text{ cfs}$$

$$\text{HLR} = 1368 \text{ ft}^2 \times 478 \text{ BTU/hr} \times 5.8 \text{ ft} = 64,296 \text{ BTU/hr}$$

$$\text{Total } Q_h = 0.34 + 0.013 = 0.36$$

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MAY 21 1993

RECOMMENDED AMOUNTS

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

4. Permit Holder: _____

Address: _____

5. Source: _____ tributary to _____

6. Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Heating	JAN 1	Dec 31	0.43 cfs	73.1 AF/ann
Recreation	JAN 1	Dec 31	0.10 cfs	3,865 ft ³

Allowable Maximums: 0.50 cfs 73.1 AF/ann

7. Point(s) of Diversion:

No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County

8. Place(s) of Use

[illegible]

9. Recommended Conditions/Remarks: _____

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 Nature of use

11. Examiner's Signature Terry D. Blau

Checked in Regional Office by J. P. Stanton *AK*

Approved in State Office by _____

Date 3-4-86

Date 3-6-86

~~DISPROFILING~~

MAY 21 1993

MAY 2 1961

40

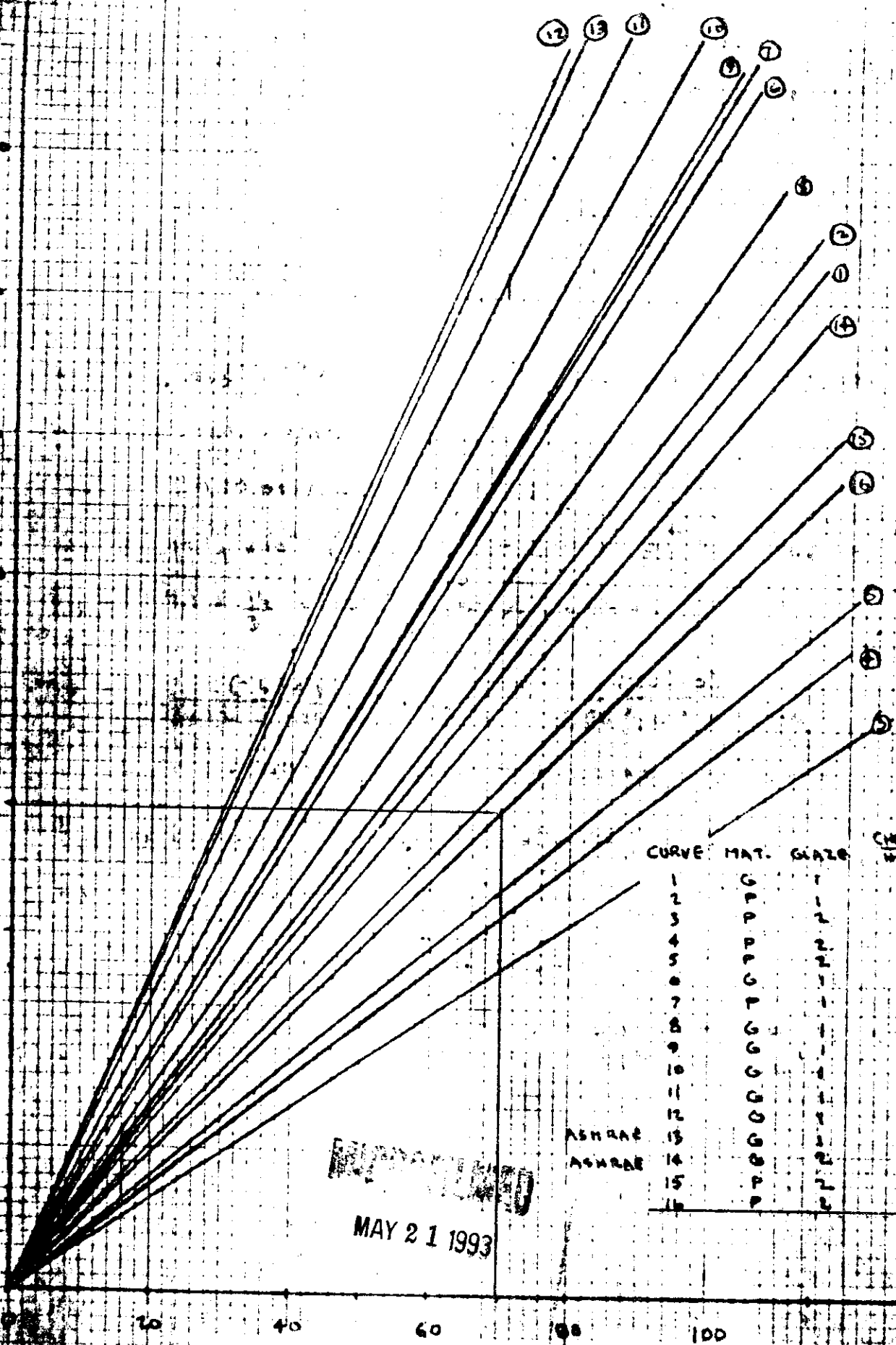


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85.14E

DESIGN HEAT REQUIREMENT - GREENHOUSE -
WALL/ROOF OF 1.5/1

STUDY 12/1/78



RECEIVED

MAY 21 1993

ASHRAE
ASHRAE

CURVE	MAT.	GLAZE	CHANCE	U-VALUE
1	0.000000	1	0.000000	0.000000
2	0.000000	1	0.000000	0.000000
3	0.000000	1	0.000000	0.000000
4	0.000000	1	0.000000	0.000000
5	0.000000	1	0.000000	0.000000
6	0.000000	1	0.000000	0.000000
7	0.000000	1	0.000000	0.000000
8	0.000000	1	0.000000	0.000000
9	0.000000	1	0.000000	0.000000
10	0.000000	1	0.000000	0.000000
11	0.000000	1	0.000000	0.000000
12	0.000000	1	0.000000	0.000000
13	0.000000	1	0.000000	0.000000
14	0.000000	1	0.000000	0.000000
15	0.000000	1	0.000000	0.000000

INSIDE MINUS ΔT OUTSIDE TEMPERATURE (°F)

TYPEWRITTEN OR
BALL POINT PEN

State of Idaho
Department of Water Administration
WELL DRILLER'S REPORT

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

1. WELL OWNER
Name Michael Archibald
Address Rt 3 Buhl, Idaho
Owner's Permit No. #47-2298

7. WATER LEVEL
Static water level _____ feet below land surface
Flowing? ☒ Yes ☐ No G.P.M. flow 350
Temperature 110 ° F. Quality Good
Artesian closed-in pressure 200 p.s.i.
Controlled by ☒ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK FEB 14 1978
☒ New well ☐ Deepened ☐ Replacement of Water Resources
Southern District Office
☐ Abandoned (describe method of abandoning)

8. WELL TEST DATA
☐ Pump ☐ Bailer ☐ Other
Discharge G.P.M. 350 Draw Down _____ Hours Pumped _____

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

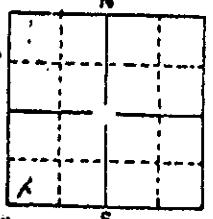
Drilled 12" c-50 temporary casing used
Drilled 8" c-210

4. METHOD DRILLED
☒ Cable ☐ Rotary ☐ Dug ☐ Other

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Wa- Yes
	From	To		
6"	0	22	Tan clay	
"	22	33	Grey sand	X
"	33	53	Boulders and sandy clay	
"	53	88	Grey clay	
"	88	100	Tan clay + basalt	
"	100	155	Tan sandy clay	X
"	155	178	Dark grey clay + basalt	
"	178	184	Brown clay	
"	184	195	Grey clay	
"	195	213	Black basalt	
"	213	226	Brown basalt + clay	
"	226	264	Black basalt	
"	264	289	Grey shale	
"	289	291	Grey basalt	
"	291	313	Grey shale	
"	313	368	Grey shale w/ some gravel	
"	368	369	SAND STONE	X
"	369	410	Green clay	
"	410	420	Light grey clay	
"	420	445	Tan clay	
"	445	510	Grey shale	X

5. WELL CONSTRUCTION
Diameter of hole 6 inches Total depth 510 feet
Casing schedule: ☒ Steel ☐ Concrete
Thickness Diameter From To
.250 inches 8 inches 0 feet 117 feet
.250 inches 6 inches 1 feet 210 feet
____ inches _____ inches _____ feet _____ feet
____ inches _____ inches _____ feet _____ feet
____ inches _____ inches _____ feet _____ feet
6" x 8" welded together -
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 50' Material used in seal ☒ Cement grout
☐ Pudding clay ☐ Well cuttings
Sealing procedure used ☐ Sherry pit ☒ Temporary surface casing
6" grouted 150-210' ☐ Overbore to seal depth

6. LOCATION OF WELL
Sketch map location must agree with written location.

Subdivision Name MAY 21 1993
Lot No. _____ Block No. _____
County Twin Falls
S.W. 1/4 S.W. 1/4 Sec. 33 T. 9 N. R. 14 E.

10.
Work started 1-NOV. 1974 finished 1-MAR. 1975

11. DRILLERS CERTIFICATION
Firm Name Boley & Henry Firm No. 56
Address Mur 1 Ave H, Idaho Date Feb 14 1978
Signed by (Firm Official) Steve Boley, Jr.
and Paul W. Henry
(Operator)

TO: STATE OFFICE -- WATER ALLOCATION

FROM: SOUTHERN REGION

RECEIVED

NOV 8 1985

Department of Water Resources

FIELD EXAMINATION NOTICE

A field examination has been made on the following permit:

Permit No: 47-7278 Owner: Mike Archibald

Examiner: TERRY BLAU

Date completed: 10-31-1985

RECEIVED

MAY 21 1993

INTER-DEPARTMENT MEMO — 1

FROM *John Beal*

DATE 7/19/83

TO Loren Holmes

SUBJECT Mike Archibald Well -

Pls have this well inspected.
Check for leakage and have well
shot-in - Get pressure & temp
readings

MICROFILMED

MAY 21 1993

John Beal

SIGNATURE

BLAINE BOLEY, JR.
TELEPHONE 432-5581

FRED HENRY
TELEPHONE 432-5581

BOLEY & HENRY

WELL DRILLING
MURTAUGH, IDAHO 83344

JUN 15 1983

Attn: John Beal

John I wasn't sure if you wanted a diagram of the Mike Archibald well, permit #47-7577 after it was completed or not. Anyway here it is, the well has been completed and you can inspect it any time. I have enclosed a copy of the state log for your information, the original has been sent to the Twin Falls office.

Sincerely,
Blaine Boley Jr.

Blaine Boley Jr.

flows

7 GPM.

increased to 40 GPM by

5' no increase until

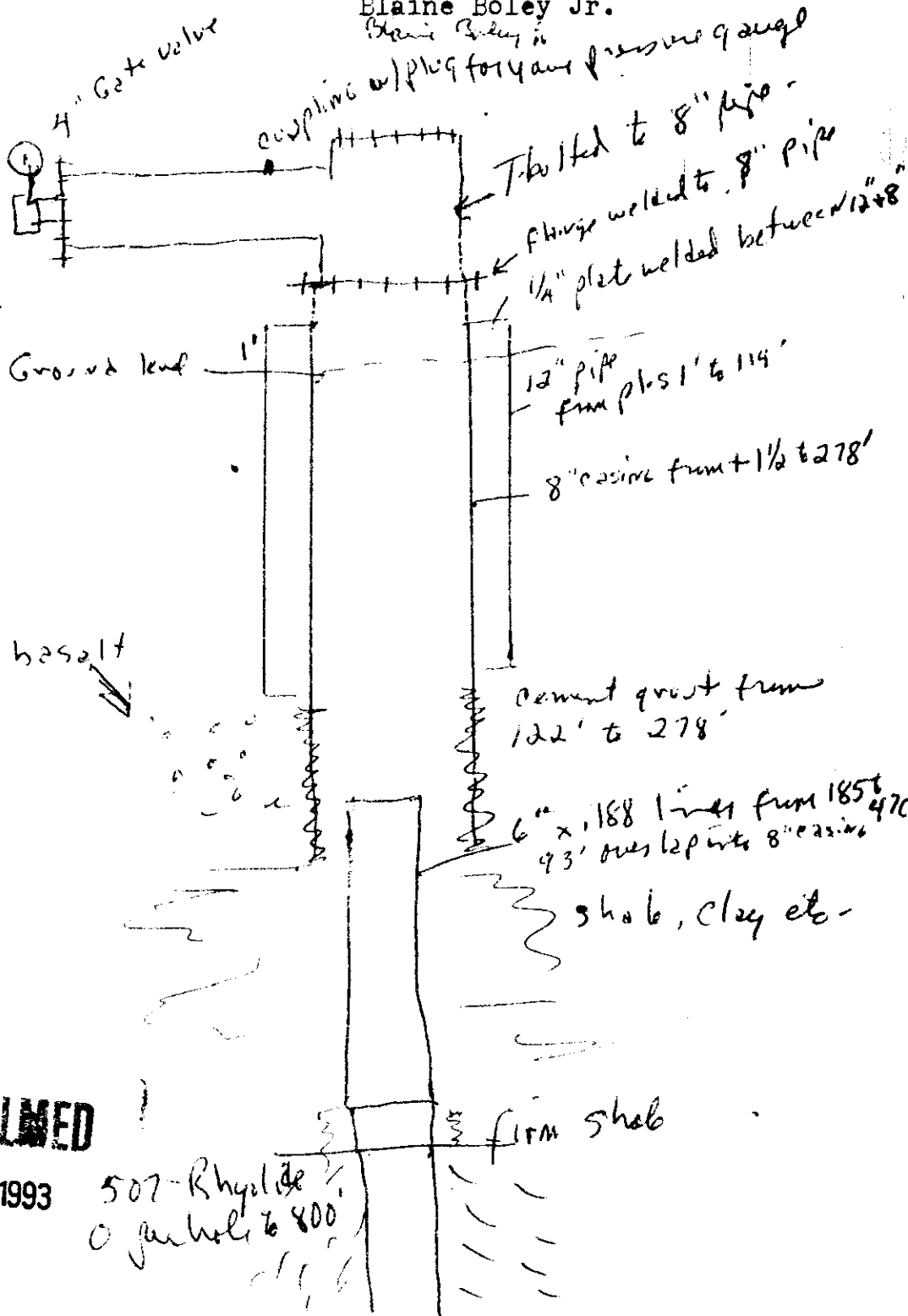
when flow began to pick

up, flow is 80 GPM at 550'

increased at 682, 710 & 732

highest flow at 752' very

good increase after 752'



MICROFILMED

MAY 21 1993

507-Rhyolite
0 feet hole to 800'

firm shab

CONVERSATION MEMORANDUM

DATE 7/7/83

FILE Boley ✓

NAME OF PARTY Blaine Boley

EMPLOYEE John Beal

BA-bury
Archebold ✓
Woodman
Marshall

RE: Blaine called to discuss
the wells referenced

Marshall- Has hit boulders
up high, will probably have
to add 20" to 10' to. (This
is okay).

Archebold well completed-
getting about 450 c.f.s.

Woodman (Flint) - now at about 430'
& drilling.

RECEIVED

MAY 21 1993



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

May 20, 1983

Blaine Boley, Jr.
Boley & Henry
Route #1
Murtaugh, ID 83344

RE: Michael Archibald Well
Banbury Ground Water Management
Area (47-7577)

Dear Mr. Boley:

Per our telephone discussion and your drilling plan (May 17, 1983) for Mr. Archibald's well, it appears that you are taking adequate steps to protect the resource. Prior to final approval of the well, the Department will need the following questions answered.

1. How much cement-grout was used?
2. Was clay or cement used in the top 90 feet of annular space?
3. What was the water-cement ratio of cement grout?
4. How far into the 8 5/8 inch casing does the 6-inch casing (liner) extend?
5. Is the bottom of the 8 5/8 inch casing setting on sediments or a cement plug? If on a cement plug, how deep is the plug?
6. Is the 6-inch casing on top of the hot water zone, into the water zone or above the water zone?

Please provide a sketch of the well, as it will be very helpful in evaluating the above questions.

MICROFILMED

MAY 21 1993

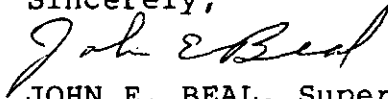
Blaine Boley, Jr.

Page 2

May 20, 1983

Once you have completed the well, a final inspection will be required. If you have any questions or comments, feel free to contact me.

Sincerely,



JOHN E. BEAL, Supervisor
Construction Permits Section

JEB:ldt

CC: IDWR - Southern Region
Michael L. Archibald

MICROFILMED

MAY 21 1993

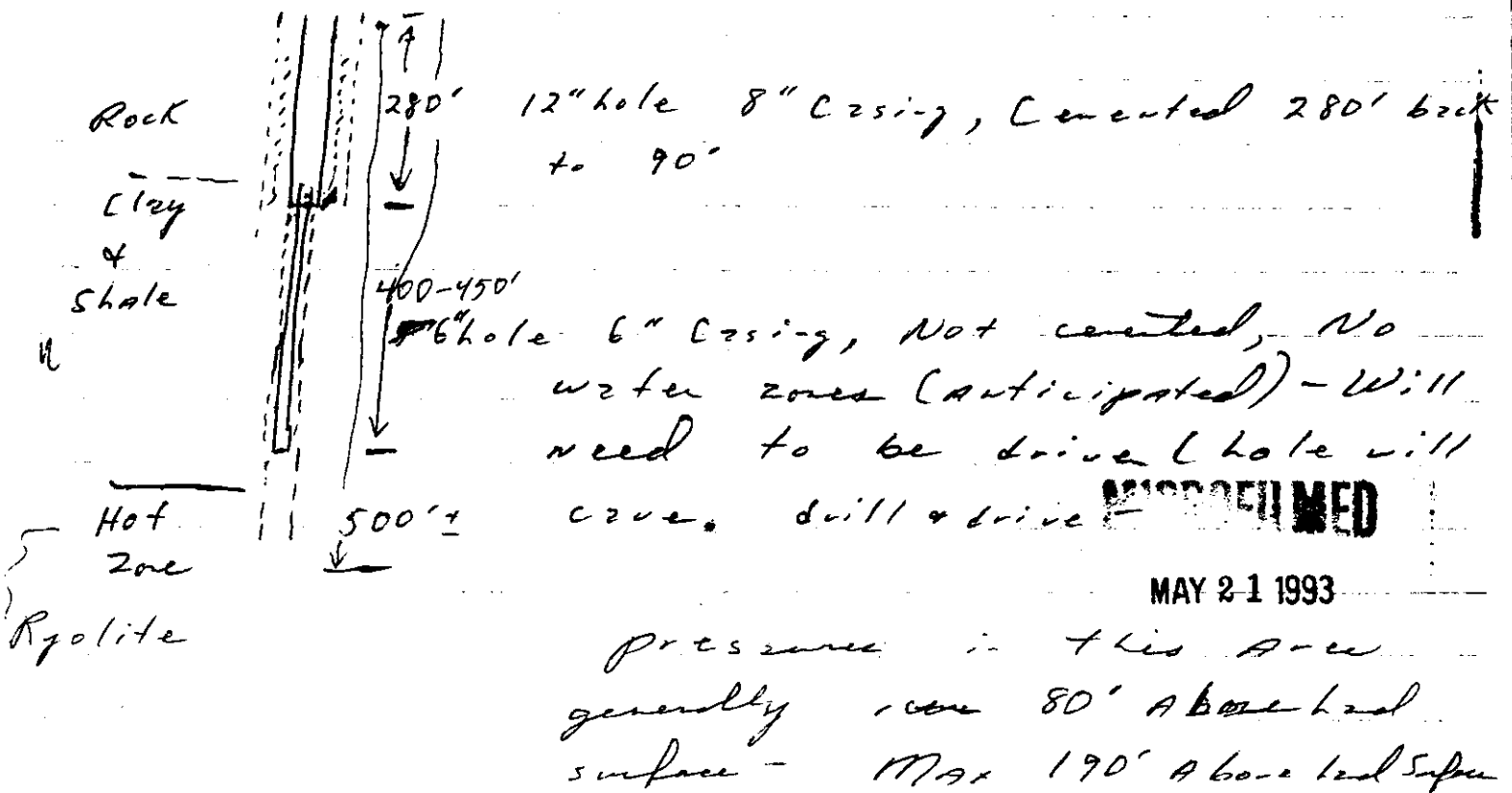
5/17/83 (?) -

Memo

To: Mike Archibald Permit # 47-7577
From: John Beal 47-7278

Re: Telephone discussion with
Blaine Boley well Driller per
Mike Archibald Hot well
Barbury Area -

Blaine stated that well had
been started prior to our notice.
Also Mr. Archibald did not
receive letter. (Our files show
owner ^{was mailed} ~~did not~~ get letters) well started
prior to
His plan is - 5/11/83



point 47-7577

Nike Archibaldwell-

Drill to 280 feet - 12 inch - install 280 feet of 8 3/8" x .050 pipe - cement it in from bottom up with pump - bring cement back to 90 feet - hole is rock from 90 feet - 255 feet -

Then drill on to 500 feet if possible - This will be through the old lake bed - a six inch liner will be installed at this point. We probably won't be able to drill to 500 feet again - it will be drilling & driving the liner - A considerable amount of water can be expected at 500 feet which is just on top of the 2nd rock - The six inch liner top will extend up into the 8" casing -

RECEIVED

MAY 13 1983

Department of the Interior

Blaine Boley II

ROUTING SLIP

TO: John Beal

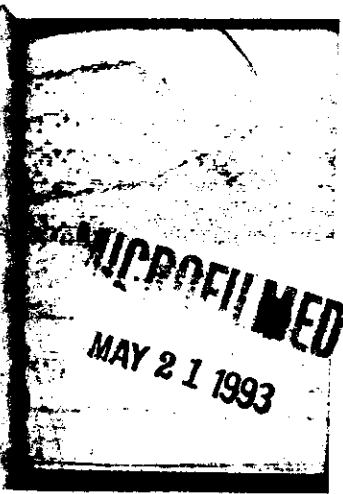
FROM: Terry Blau

DATE: 5-17-83 TIME: 9:00

PER:	
Our Conversation	
Your Request	
The Attached	

FOR YOUR:		REVIEW AND:	
Information	☒	Take Proper Action	☒
Approval	☐	Comment	☐
Signature	☐	Draft A Reply	☐

ATTACHED TO BE:	
Posted	Returned To Me
Circulated	Filed
Distributed	Copied (____ copies)





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

May 2, 1983

Dear Permit Holder:

Enclosed you will find an Order Supplementing Conditions of Approval for your permit to appropriate groundwater within the newly formed Banbury Hot Springs Groundwater Management Area.

Please be advised that there will be a meeting on Thursday, May 5, 1983 at 7:30 p.m. at Buhl Junior High School, 216 North 7th St., Buhl, Idaho to discuss the reasons for designation as a management area and potential impacts.

Sincerely,

for DAVID R. TUTHILL, JR.
Water Allocations Section Supervisor

DRT:rf

Enclosure

MICROFILMED

MAY 21 1993



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

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

November 14, 1979

Michael L. Archibald
Route 3
Buhl, Idaho 83316

Re: Application for Permit No. 47-7278

Dear Mr. Archibald:

We acknowledge receipt of the affidavit 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. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

Field examinations must be done while the system is in operation. For this reason we concentrate on irrigation permits during the summer months and do examinations on permits for other uses during the non-irrigating months.

If you have any questions regarding the field examination, please contact our office.

Sincerely,

Gary L. Funderburg
Senior Water Resource Agent

GLF:marya

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. 47-7278

Name(s) of Permit Holder: MICHAEL L. ARCHIBALD

Post Office Address: RT 3 BOULDER SPRING 83316

RECEIVED

Source of Water:

Extended Use: ☒ Domestic 1 (number of households) SEP 21 1979
☐ Stockwater _____ (number and type of stock)
☒ Irrigation 5 (acres)
☒ Other HEAT GREENHOUSES
 Department of Water Resources
 Southern District Office

Measuring Device: Required? ☐ Yes ☒ No Installed? ☐ Yes ☐ No
 Accounting: 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.

9-11-79
 Date

[Signature]
 Signature of Permit Holder

PLACE
TEN CENT
STAMP
HERE



IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

S T A T E O F I D A H O
DEPARTMENT OF WATER RESOURCES

STATEHOUSE
BOISE, IDAHO 83720
(208) 384-2215

ARCHIBALD, MICHAEL L.
RT. 3
BUHL, ID

104280

AUGUST 31, 1979

DEAR PERMIT HOLDER:

ONE OF THE CONDITIONS OF APPROVAL OF YOUR WATER PERMIT NO. 47-7278 WAS THAT EVIDENCE OF THE EXTENT OF DEVELOPMENT MUST BE SUBMITTED TO THIS OFFICE ON OR BEFORE NOVEMBER 01, 1979. (SEE LAST PAGE OF YOUR APPROVED PERMIT). ENCLOSED IS A POST CARD WHICH MAY BE USED TO SUBMIT THE REQUIRED PROOF OF BENEFICIAL USE.

IF YOU HAVE NOT FULLY COMPLETED YOUR PROJECT, AND YOU HAVE NOT PREVIOUSLY RECEIVED AN EXTENSION OF TIME, YOU MAY REQUEST AN EXTENSION OF TIME PROVIDED THE DELAY IS FOR REASONABLE CAUSE AS INDICATED IN SECTION 42-204, IDAHO CODE, AMENDED. IF YOU HAVE BEEN PREVENTED FROM PROCEEDING BY A GOVERNMENTAL AGENCY OR BY LITIGATION, MORE THAN ONE EXTENSION OF TIME CAN BE GRANTED.

EITHER THE BENEFICIAL USE POST CARD OR A REQUEST FOR AN EXTENSION OF TIME MUST BE RECEIVED BY THIS DEPARTMENT ON OR BEFORE THE ABOVE MENTIONED DATE, OTHERWISE, THE PERMIT WILL LAPSE AND BE OF NO FURTHER FORCE OR EFFECT WITHIN 60 DAYS.

SINCERELY,

RITA FLECK
SR. SECRETARY

ENC: 1

MICROFILMED



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

June 18, 1979

Dear Wateruser:

The enclosed Order removes the measuring device requirement as a condition of approval from your permit.

If you have installed the measuring device, the field examination can be more quickly conducted by the Department's field examiner. You will also derive benefit from water management information which may be obtained from the installed meter.

If you have questions regarding this matter, please contact this office or our regional offices.

Sincerely,

David R. Tuthill Jr.

DAVID R. TUTHILL, JR.
Supervisor, Water Allocations Section

DRT:lr

Enclosure

Received

November 8, 1974

Re: Permit No. 47-7278

Mr. Michael L. Archibald
Route 3
Buhl, Idaho 83316

Dear Mr. Archibald:

Enclosed is a copy of your approved Application for Permit No. 47-7278 . We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note that a special condition requiring you to install and maintain a measuring device at your point of diversion has been placed upon your permit. We are enclosing a letter describing different types of measuring devices accepted by this office.

Sincerely,

BOBBY D. FLEENOR
Chief, Water Rights

BDF:jfr

Enclosures

MICROFILMED

XXXXXXXXXXXXXXXXXXXXX RESOURCES

September 25, 1974

RE: Application No. 47-7278 - Michael L. Archibald

Buhl Herald
P.O. Box 312
Buhl, Id. 83316

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,

Bob Haynes
Southern District Engineer

Bill submitted 10-15-74 LT

MICROFILMED

**NOTICE OF APPLICATION
FOR WATER PERMIT**

Notice is hereby given that Michael L. Archibald, Rt. 3, Buhl, Id. has on 9-24-74 submitted Application No. 47-7278 for a permit to appropriate .5 cubic feet per second of water from groundwater by means of well, pipe, ditches within Lt 7, SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 33, T 8S, R 14E, B.M., Twin Falls Co. to be used from Jan. 1 to Dec. 31 for domestic and greenhouse heating, Mar. 15 to Nov. 15 for irrigation of 4.7 acres within Lt 7 of SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 33, T 8S, R 14E, 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, 83401 on or before 10-21-74.

R. KEITH HIGGINSON
Director

Published in the Buhl Herald on
10-3 and 10-10-74
(3942)

ok LT
10-2-74

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Michael L. Archibald

Rt. 3, Buhl, Id.

has on 9-24-74 submitted Application No. 47-7278

for a permit to appropriate .5 cubic feet per second ~~xxxxxxfeetxxperxxsecond~~

of water from groundwater

by means of well, pipe, ditches

within ~~the~~ Lt. 7, SW 1/4, Sec. 33, T 8S, R 14E, B.M., Twin Falls Co.

to be used from Jan. 1 to Dec. 31 for domestic and greenhouse heating, Mar. 15

~~xxx~~ to Nov. 15 for irrigation of 4.7 acres

within ~~the~~ Lt. 7 of SW 1/4, Sec. 33, T 8S, R 14E, 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 10-21-74.

R. KEITH HIGGINSON

Director

Published in the Buhl Herald

on 10-3 and 10-10-74

MICROFILMED

XXXXXXXXXXXXXXXXXXXXX RESOURCES

September 20, 1974

Mr. Michael L. Archibald
Route 3
Buhl, Idaho 83316

Dear Mr. Archibald:

In reviewing your application for permit, we find that more information is necessary to complete the processing. We are returning your check 92-274 in the amount of \$10.00 and your application. Please stop in at our office on Monday and we will complete the application. We will need the approximate gallonage and usage for the proposed use of heating a greenhouse and any other information that may be pertinent.

If you have any questions, don't hesitate to contact this office. Please bring the application and receipt with you when you come in.

Very truly yours,

Ken Flowerdew
Water Resource Technician II
Southern District

KF:lt

enc.

MICROFILMED