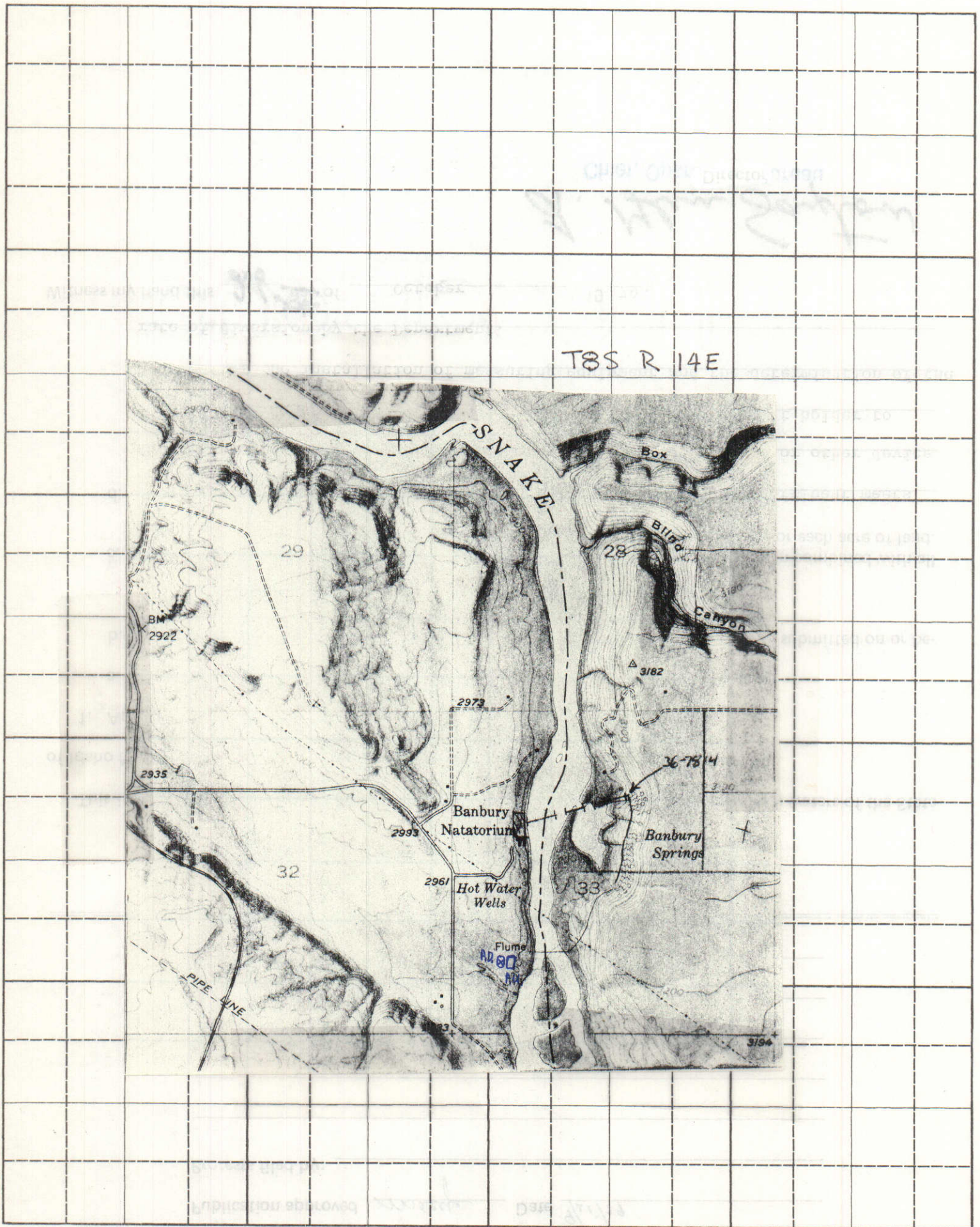


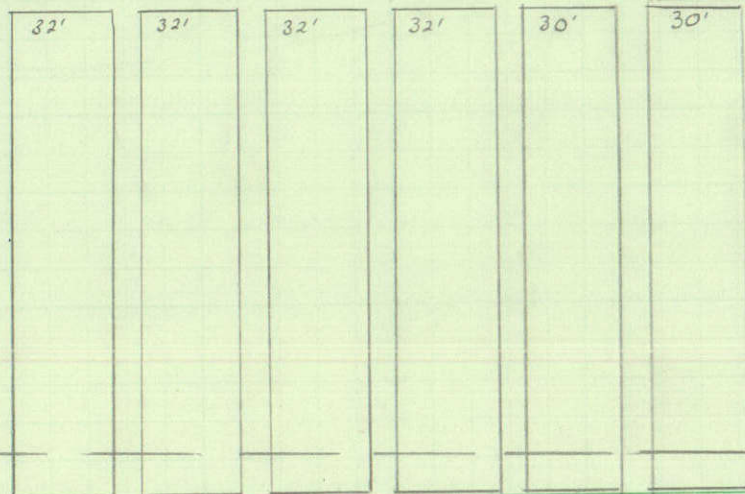
11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



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 J. Schindler
(Applicant)



MIKE ARCHIBALD 47-7577

1088

848

Lad^m

mid

5483

NOV 29 1993

1950

85.14E.

29 28

33

PD



PD

33

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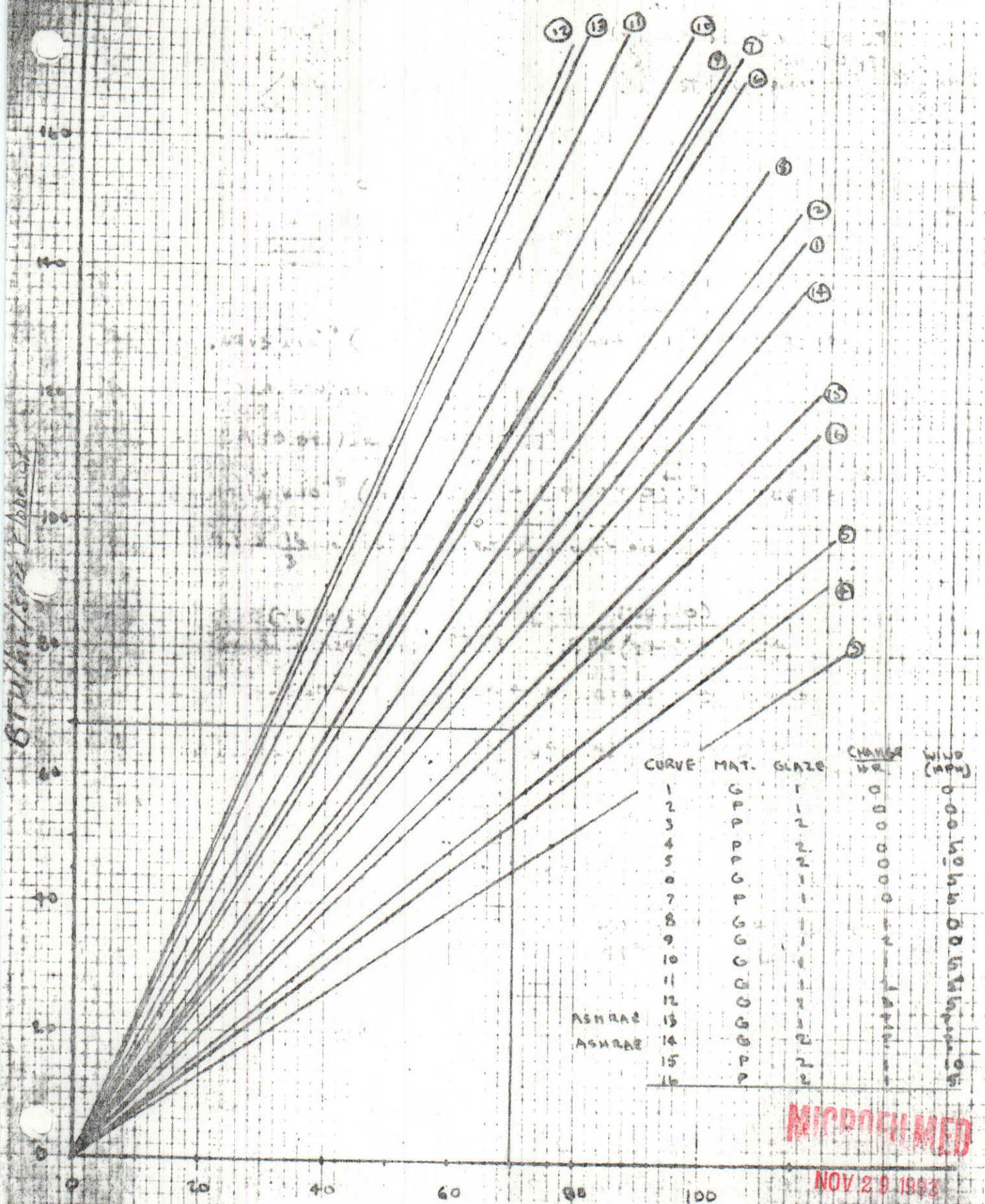
G
4.0

UNRECORDED

NOV 29 1993

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

8711/15/24 F. H. H. S.



ASHRAE
ASHRAE

MICROFILMED

NOV 29 1983

INSIDE MINUS ΔT OUTSIDE TEMPERATURE (°F)

USE TYPEWRITER 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. #47-2278

7. WATER LEVEL

Static water level _____ feet below land surface
Pumping? ☒ Yes ☐ No G.P.M. flow 350
Temperature 110 F. Quality Good
Artesian closed in pressure 210 P.S.I.
Controlled by ☒ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

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

8. WELL TEST DATA

☐ Pump ☐ Bailor ☐ Other
Discharge G.P.M. _____ Draw Down _____ Hours Pumped _____

3. PROPOSED USE

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

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

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
☐ Puddling clay ☐ Well cuttings
Sealing procedure used ☐ Sherry pit ☒ Temporary surface casing
☐ Overbore to seal depth

6" grouted 150-210'

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County Twin Falls

SW 1/4 Sec. 55, T. 8, R. 14, E. 1

10.

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

11. DRILLERS CERTIFICATION

Firm Name Boley & Henry Firm No. 86

Address Marlarch, Idaho Date Feb 1975

Signed by (Firm Official) Boley & Henry

and W. Henry
(Operator)

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

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NOV 29 1993

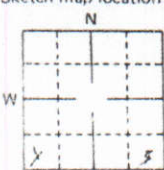
State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

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

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Mike Archibald</u> Address <u>Rt. 3 Buhl, Idaho</u> Owner's Permit No. <u>47-7577</u>		7. WATER LEVEL Static water level _____ feet below ground surface. Flowing? ☒ Yes ☐ No G.P.M. flow <u>120</u> Artesian closed-in pressure <u>55</u> p.s.i. Controlled by: ☒ Valve ☐ Cap ☐ Plug Temperature <u>113</u> °F. Quality <u>very good</u>																																																																																																																																																																																																																	
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 _____																																																																																																																																																																																																																	
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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 • 250 inches 12 inches + 1 feet 119 feet • 250 inches 8 inches 13 feet 278 feet • 139 inches 6 inches 195 feet 470 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 <u>351</u> 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 <u>flowing well</u>																																																																																																																																																																																																																			
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. <u>7</u> Block No. _____ County <u>Twin Falls</u> Sec. <u>33</u> T. <u>8</u> N/S, R. <u>14</u> E/W.		10. Work started <u>1 May 1983</u> finished <u>1 July 1983</u>																																																																																																																																																																																																																	
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Boley & Henry</u> Firm No. <u>86</u> Address <u>Murtaugh, Idaho</u> Date <u>5 July, 1983</u> Signed by (Firm Official) <u>Blaine Boley</u> and (Operator) <u>Russ Boley</u>																																																																																																																																																																																																																			

MICROFILMED

NOV 9 1993

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

RECEIVED
DEC 2 1983

INTER-DEPARTMENT MEMO — 1

To
FROM John Beal

Department of Water Resources

DATE 7/19/83

RECEIVED

JUL 21 1983

Department of Water Resources
Southern District Office

SUBJECT Mike Archibald Well -

Pls have this well inspected.
Check for leakage A-I - have well
shut-in - Get pressure & temp
readings John sorry it took so long
Everything looks good.
Water Temp 110.3°F Pressure Reader 63 PSI

John Beal

SIGNATURE

MICROFILMED

DEC 2 1983



SIGNATURE

124 63

BLAINE BOLEY, JR.
TELEPHONE 432-5581

FRED HENRY
TELEPHONE 432-5581

BOLEY & HENRY

WELL DRILLING
MURTAUGH, IDAHO 83344

JUL 15 1983

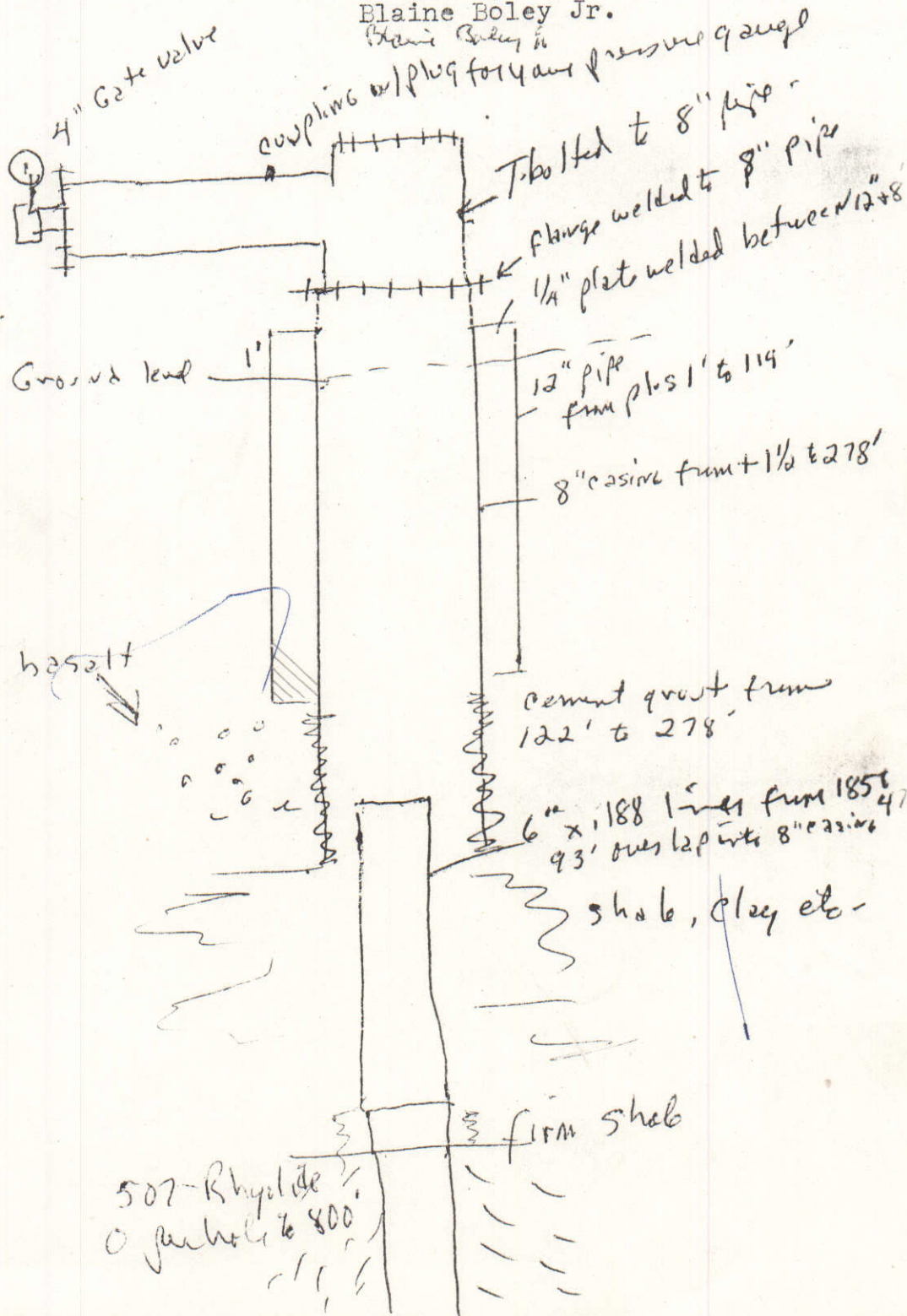
Attn: John Beal

John I wasn't sure if you wanted a diagram of the Mike Archibald well, permit #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.

flows

10' - 7 G.P.M.
increases to 40 G.P.M. by
55' no increase until
20' when flow begins to pick
up, flow is 80 G.P.M. at 550'
increases at 642, 710 & 732
largest flow at 752' very
small increase after 752'



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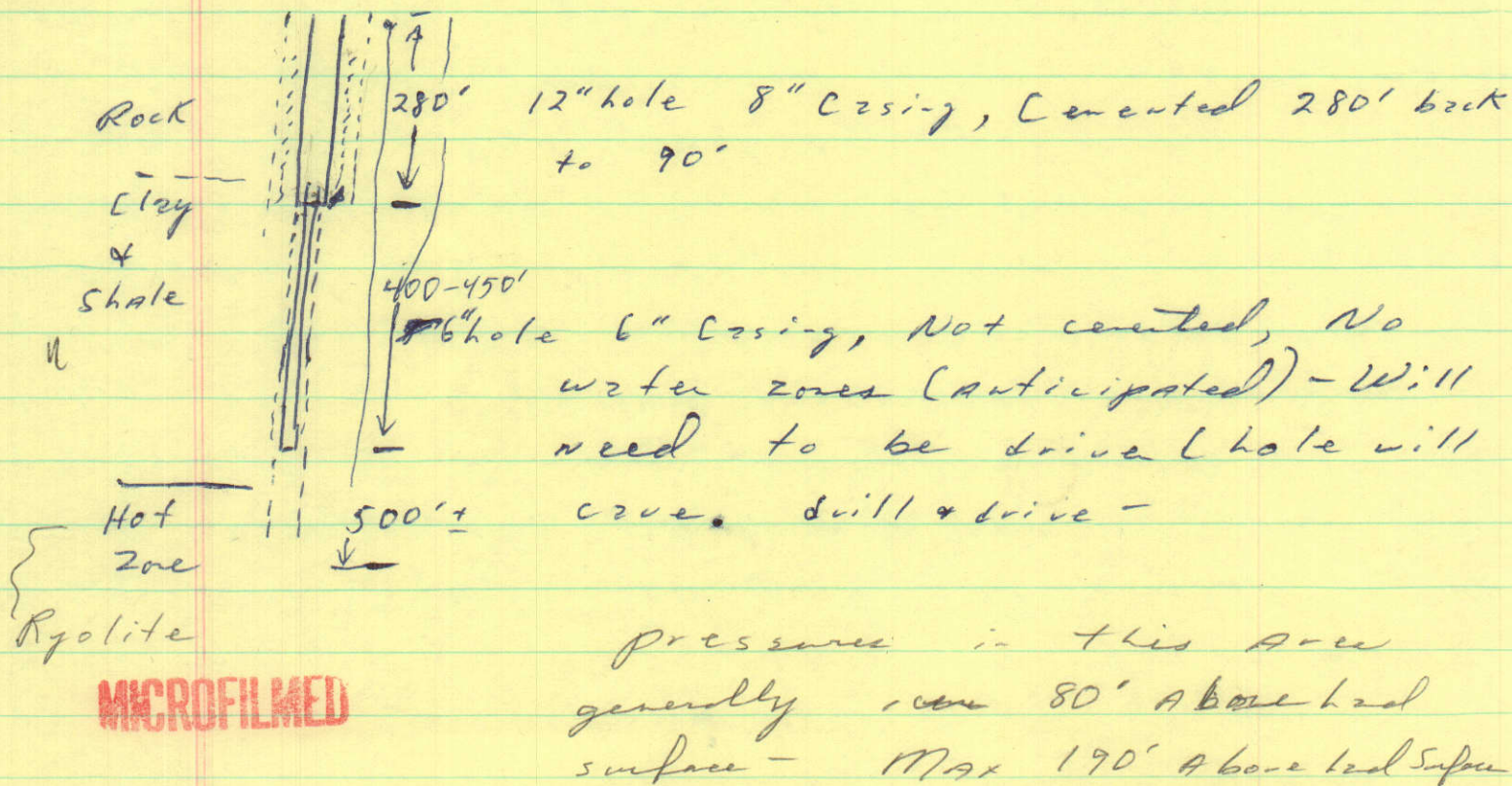
5/17/83 (2)

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
own ^{was mailed} ~~did get~~ letters) Well started
prior to
His plan is - 5/1/83



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47-7577
ARCHIBALD, MICHAEL L.
ROUTE 3, BUHL, ID 83316
Source: GROUNDWATER
Date Filed: 09/12/1979
Amount: 1.71 CFS
Diversion Point: LOT 07 Sec
33 T 08S R 14E, TWIN
FALLS Co.
Use: HEATING (1.70 CFS)
from 01/01 to 12/31
COMMERCIAL (0.01 CFS)
from 01/01 to 12/31
Place of Use: LOT 07 Sec 33
T 08S R 14E
Diversion Means: EXISTING

AND NEW ARTESIAN
HOT-WATER WELLS
If issued, the permit(s) will
be subject to all prior water
rights. Protests against the
granting of any permit must
be filed with the Director of
the Idaho Department of
Water Resources, 1041 Blue
Lakes Blvd. North, Twin
Falls, Idaho 83301 and re-
ceived on or before
OCTOBER 15, 1979.
C. STEPHEN ALLRED
Director
PUBLISH: Thursday, Sept.
27, and Oct. 4, 1979.

MICROFILMED

Affidavit of Publication

No 8725

STATE OF IDAHO, }
COUNTY OF TWIN FALLS } ss.

I, Linda L. Copper being first duly sworn upon
oath, depose and say that I am Print Clerk of the TIMES-NEV.
published daily, 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 weeks, commencing with the issue dated
September 27, 1979, and ending with the issue dated
October 4, 1979.

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,
until July 31, 1978, at which time said newspaper began daily publication 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 com-
petent 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 there-
of, Thursday is announced as the day on which said legal notices will be published.

Linda L. Copper day of
Subscribed and sworn to before me on this

October, 1979.

Melba Rowlett-Smith
Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 47-07577

Priority: September 12, 1979

Maximum Diversion Rate:

0.55 CFS

Maximum Diversion Volume:

145.5 AF

This is to certify, that MICHAEL L ARCHIBALD

RT 3 BOX 425

BUHL ID 83316

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated September 12, 1979; and has submitted Proof of Beneficial Use on August 13, 1984. An examination indicates that the works have a diversion capacity of .550 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	0.55 CFS	145.5 AF

LOCATION OF POINT(S) OF DIVERSION: Lot 7 (SWSW), Sec. 33, Township 08S, Range 14E
TWIN FALLS County

PLACE OF USE: HEATING

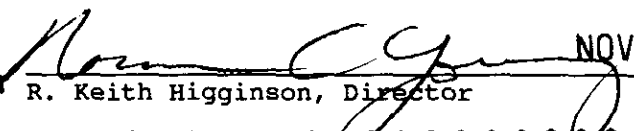
TWN RGE SEC

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. Return water shall be treated to insure that the effluent meets intrastate stream water quality standards.
6. Two points of diversion are located within SWSW (Lot 7), S33, T08S, R14E.
7. Heating use is for 1 mobile home and 12 greenhouses.

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 day of NOVEMBER, 1993.

Acting for  R. Keith Higginson, Director

NOV 29 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. 47-7577

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. 47-7577 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 ~~1~~^{2nd} day of May, 1983.

L. Glen Saxton

L. GLEN SAXTON
Chief, Operations Bureau

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED

To appropriate the public waters of the State of Idaho

Department of Water Resources
Southern District Office

1. Name of applicant Michael L. Archibald Phone 543-5083

Post office address Route #3, Buhl, Idaho 83316

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

3. Location of point of diversion is 2 points
1/4 of Lot 7 1/4 of Section 33 Township 8S

Range 14E B.M. Twin Falls County, additional points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 1.7 cfs for heating purposes from Jan 1 to Dec 31 (both dates inclusive)
(cfs or acre-feet per annum) commercial

Amount 0.01cfs for greenhouse 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)

5. Total quantity to be appropriated:

a. 1.71 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Existing & new artesian hot-water wells

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

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

c. Proposed well diameter is 6 inches; proposed depth of well is 600 feet.

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

8. Description of proposed uses:

a. If water is not for irrigation:

(1) Give the place of use of water: 1/4 of Lot 7 1/4 of Section 33 Township 8S

Range 14E B.M.

(2) Amount of power to be generated: _____ horsepower 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: heating of commercial greenhouses,
watering of greenhouse plants at various times as needed

MICROFILMED

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

[illegible]

Total number of acres to be irrigated

c. Describe any other water rights used for the same purposes as described above. Permit 47-7278

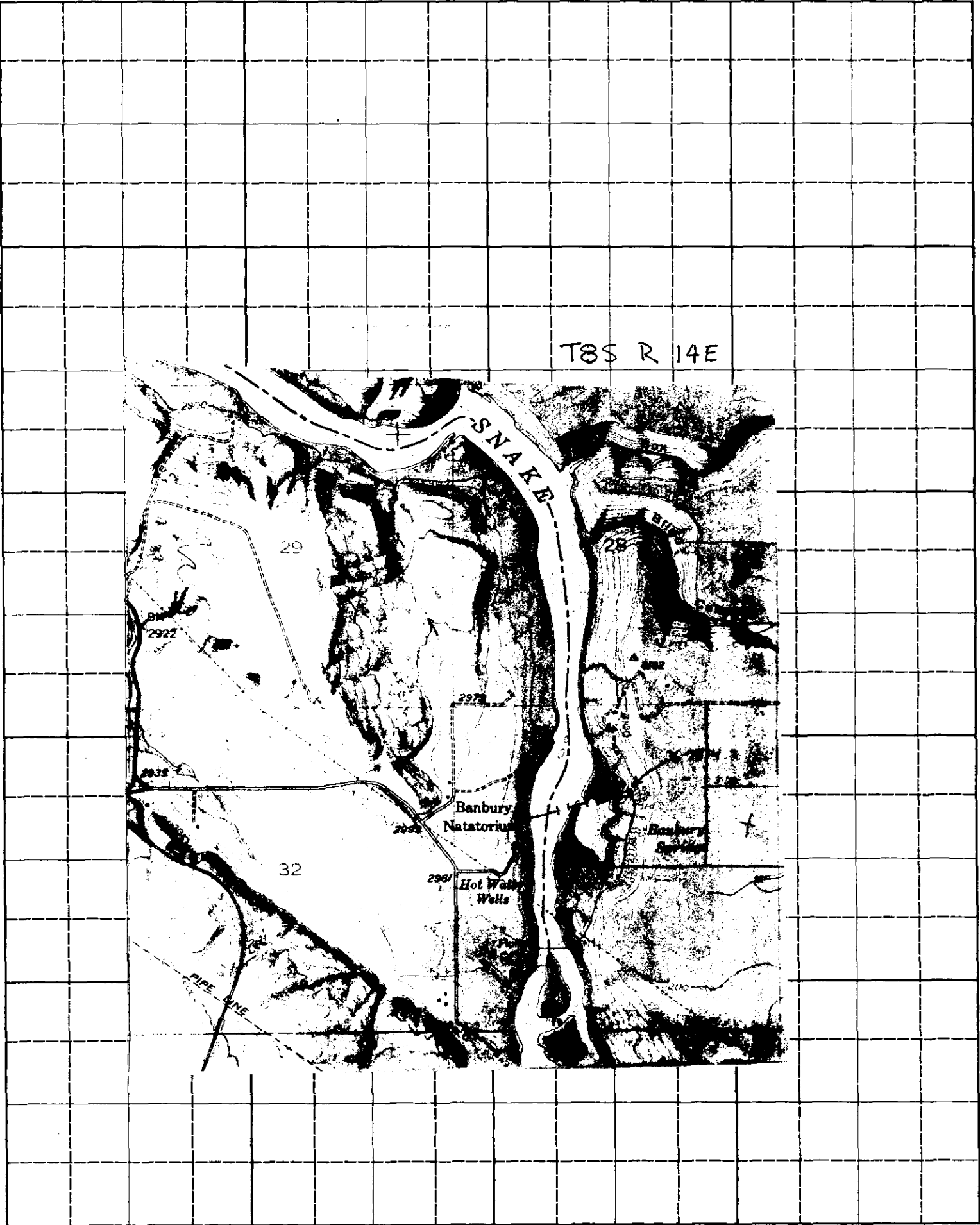
9. a. Who owns the property at the point of diversion Applicant

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

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 Present well produces about 500 gpm. This filing is for that amount
from a second well to be drilled near the existing well, and also for the output
of the existing well that is not covered by 47-7278.

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 J. Puchala
(Applicant)

Proposed Priority 9/12/79

Received by JK Date 9-12-79 Time 9:30 am

Preliminary check by ADM Fee \$ 45.00

Receipted by marya Date 9/12/79 # 13328

Publication prepared by marya Date 9/13/79

Published in times news

Publication dates 9/27 + 10/4/79

Publication approved marya Date 9/21/79

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date: _____

Recommended for approval denial by ZT Jim

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. 47-7577, 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 October 1, 19 84.
- c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.
- d. Other: (1) Return water shall be treated to insure that the effluent meets intrastate stream water quality standards. (2) 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.

Witness my hand this 26th of October, 19 79.

A. Glen Saxton
Chief, Operations Bureau



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

November 17, 1993

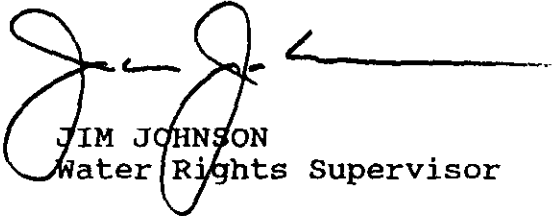
MICHAEL L ARCHIBALD
RT 3 BOX 425
BUHL ID 83316

RE: WATER RIGHT NO. 47-07577

Dear Water Right Holder(s):

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

Sincerely,



JIM JOHNSON
Water Rights Supervisor

JJ:dc

Enclosure

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NOV 29 1993

MEMORANDUM

TO: FILE 47-07577
FROM: GEORGE AUSTIGUY
RE: GENERAL REVIEW OF HEATING USE REQUIREMENTS
DATE: 10/06/93

Mobile Home

RATE OF FLOW AND ANNUAL VOLUME FOR HEATING USE

GIVEN:

Geothermal Source Temperature	=	93 Degrees
Area of Floor Space	=	910 Square Feet
Temperature Outside	=	0 Degrees
Temperature Inside	=	70 Degrees
Building Efficiency	=	0.28 *
Temperature Required	=	70 Degrees
Days per year temp below 70 Degrees	=	270 Days
Hours per day temp below 70 Degrees	=	12 Hours

CALCULATIONS:

Single Floor System Heat Load =	=	17,836 btu/hr
Two Floor System Heat Load	=	14,269 btu/hr
Temp. Drop Across System	=	6.9 deg

FLOW RATE;

Single Floor Flow Rate	=	5 gpm
	=	0.01 cfs
Two Floor Flow Rate	=	4 gpm
	=	0.01 cfs

VOLUME;

Single Floor Annual Volume	=	3.1 Acre feet
Two Floor Annual Volume	=	2.5 Acre-feet

MISCELLANEOUS INFORMATION:

* 0.28 Best energy efficiency **
0.44 Good energy efficiency
0.67 Average energy efficiency
1.11 Poor energy efficiency

**Source Administrator,s Memorandum dated September 28,1992

MINOR REVISIONS
NOV 29 1993

NOTE: WE HAD TO ADJUST THE EFFICIENCY TO COME CLOSE TO
THE MEASURED RATE OF FLOW.

MEMORANDUM

TO: FILE 47-07577
FROM: GEORGE AUSTIGUY
RE: GENERAL REVIEW OF HEATING USE REQUIREMENTS
DATE: 10/06/93

Greenhouse Area

RATE OF FLOW AND ANNUAL VOLUME FOR HEATING USE

GIVEN:

Geothermal Source Temperature	=	100 Degrees
Area of Floor Space	=	46500 Square Feet
Temperature Outside	=	0 Degrees
Temperature Inside	=	70 Degrees
Building Efficiency	=	0.33 *
Temperature Required	=	70 Degrees
Days per year temp below 70 Degrees	=	270 Days
Hours per day temp below 70 Degrees	=	12 Hours

CALCULATIONS:

Single Floor System Heat Load =	=	1,074,150 btu/hr
Two Floor System Heat Load	=	859,320 btu/hr
Temp. Drop Across System	=	9 deg

FLOW RATE:

Single Floor Flow Rate	=	239 gpm
	=	0.53 cfs
Two Floor Flow Rate	=	191 gpm
	=	0.43 cfs

VOLUME:

Single Floor Annual Volume	=	142.4 Acre feet
Two Floor Annual Volume	=	113.9 Acre-feet

MISCELLANEOUS INFORMATION:

* 0.28 Best energy efficiency **
0.44 Good energy efficiency
0.67 Average energy efficiency
1.11 Poor energy efficiency

**Source Administrator,s Memorandum dated September 28,1992

RECORDED

NOV 29 1993

NOTE: THE BUILDINGS HAD TO HAVE THEIR EFFICIENCY RATING
ADJUSTED TO COME UP WITH THE MEASURED FLOW
RATE TO MAINTAIN the 70° temp.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

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JUN 30 1986

47-7577
Permit No.

Department of Water Resources

1. Measurement Calculations

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

Q heating Measurement:

MP#

1 Tr. house = $0.1352 \text{ cfs in } 11.5 \text{ sec.} = 0.0118 \text{ cfs}$

5 G.H. 5-8, 15, 16 = $0.576 \text{ in } 2.25 \text{ sec} = 0.256 \text{ cfs}$

6 G.H. 9+14 = $0.576 \text{ in } 12.25 \text{ sec} = 0.047$

9 G.H. 10-13 = $0.576 \text{ in } 2.5 \text{ sec} = 0.23$

Measured $Q_h \text{ Total} = 0.55 \text{ cfs}$

Allow 0.55 cfs

Q Heating Theoretical

Trailer Area = 910 ft^2

$\Delta T = \text{Source } T - \text{inside } T - \text{Approach } T$

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

Heating Load Req. = $910 \text{ ft}^2 \times 47 \text{ BTU/ft}^2 = 42,770 \text{ BTU/hr}$

$Q_{Tr. h} = \frac{\text{Heating Load Req.}}{500 \times \Delta T} = \frac{42,770 \text{ BTU/hr}}{500 \times 23} = 3.7 \text{ gpm} = 0.008 \text{ cfs}$

Greenhouse Area = $46,500 \text{ ft}^2$

Greenhouse heat loss 68 BTU/hr/ft^2 - See attached curve

Heat Load Req. = $46,500 \text{ ft}^2 \times 68 \text{ BTU/hr/ft}^2 = 3,162,000 \text{ BTU/hr}$

$Q_{gh} = \frac{\text{Heat Load}}{500 \times \Delta T} = \frac{3,162,000 \text{ BTU/hr}}{500 \times 30.2} = 209.4 \text{ gpm} = 0.47$

$\Delta T = 120.2 - 70^\circ - 20^\circ = 30.2^\circ\text{F}$

Total $Q_h = 0.47 \text{ cfs} + 0.01 \text{ cfs} = 0.48 \text{ cfs}$

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

$\Delta T = \frac{\text{Heat Load}}{500 \times Q_{gh}} = \frac{3,204,770}{500 \times 246.8 \text{ gpm}} = 25.97^\circ\text{F}$

Ann. Heat Load = $\frac{QD \times HL \times 24}{T_i - T_o} = \frac{6146 \times 3,204,770 \times 24}{70 - 0} = 6,753,091.344 \text{ BTU/ANN}$

Ann. Vol = $\frac{\text{Ann. HL}}{\Delta T \times 62.4 \text{ lb/ft}^3} = \frac{6,753,091.344 \text{ BTU/ANN}}{25.97^\circ\text{F} \times 62.4 \text{ lb/ft}^3} = 4,167,216.7 \text{ ft}^3/\text{ANN} = 95.7 \text{ AF/ANN}$

2. Overlap Review

a) Other water rights with same place of use:

b) Other water rights with same point of diversion:

c) Analysis:

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NOV 29 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	0.55 cfs	95.7 AF/ann

Allowable Maximums: _____

7. Point(s) of Diversion:

[illegible]

8. Place(s) of Use

[illegible]

9. Recommended Conditions/Remarks: _____

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~~NOV 29 1993~~

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 Terry D. Blaw

Date 3-5-86

Checked in Regional Office by J. Stanton ADM

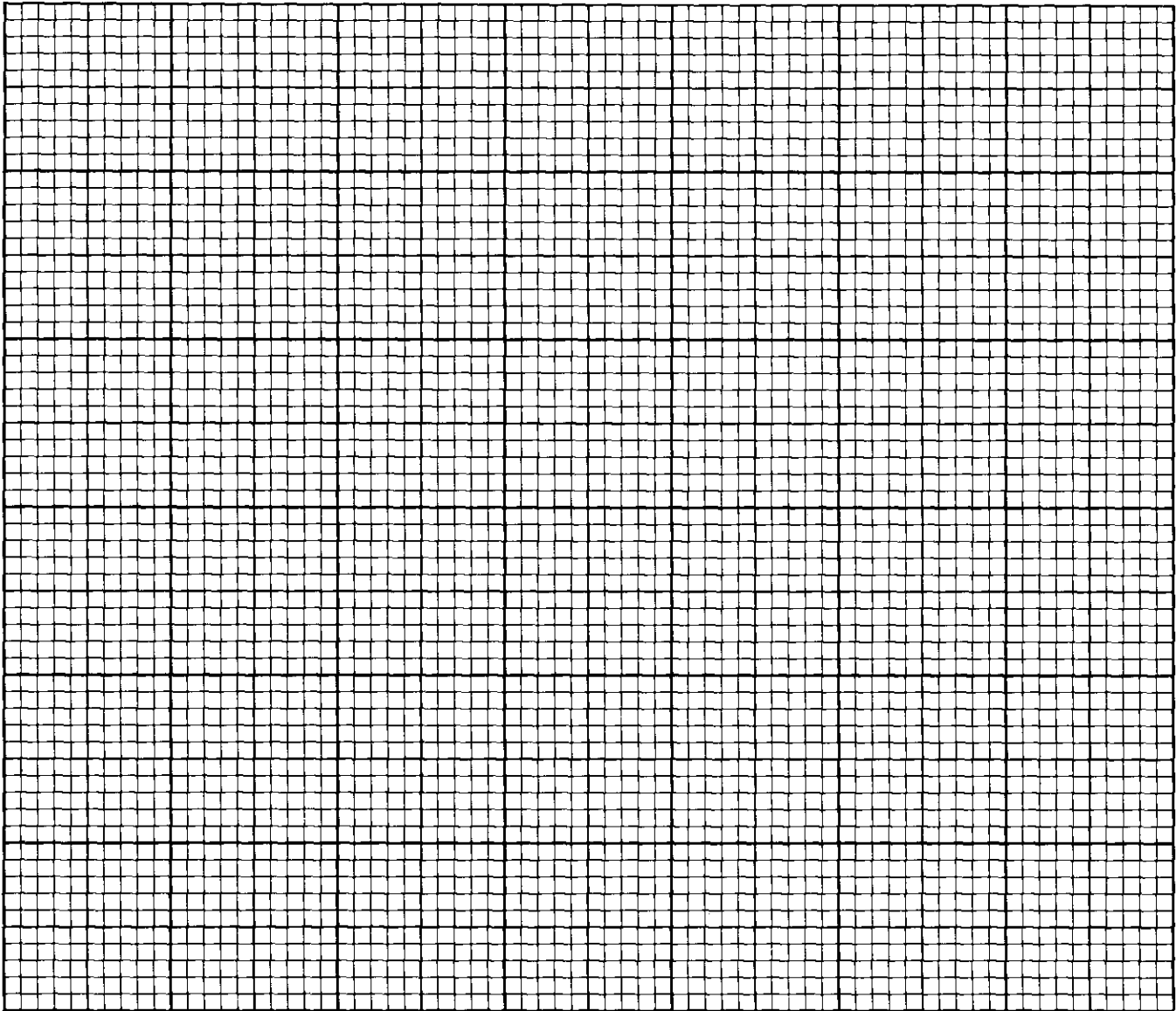
Date 3-6-86

Approved in State Office by _____

Date: _____

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
85.	14E	33															6		
																	7		
Total Acres _____																			

0. Other water rights on these lands 47-7278, Banbury Pipeline
1. Other water right diverted from same p.d. 47-7278
2. **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 This water is not used for watering plants

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 S. Blau Date 3-5-86

Consultant's License Number _____

IDWR Director's Authorization to Conduct

Beneficial Use Examination _____

Date

CONSULTANT SEAL

[Handwritten signature and stamp]

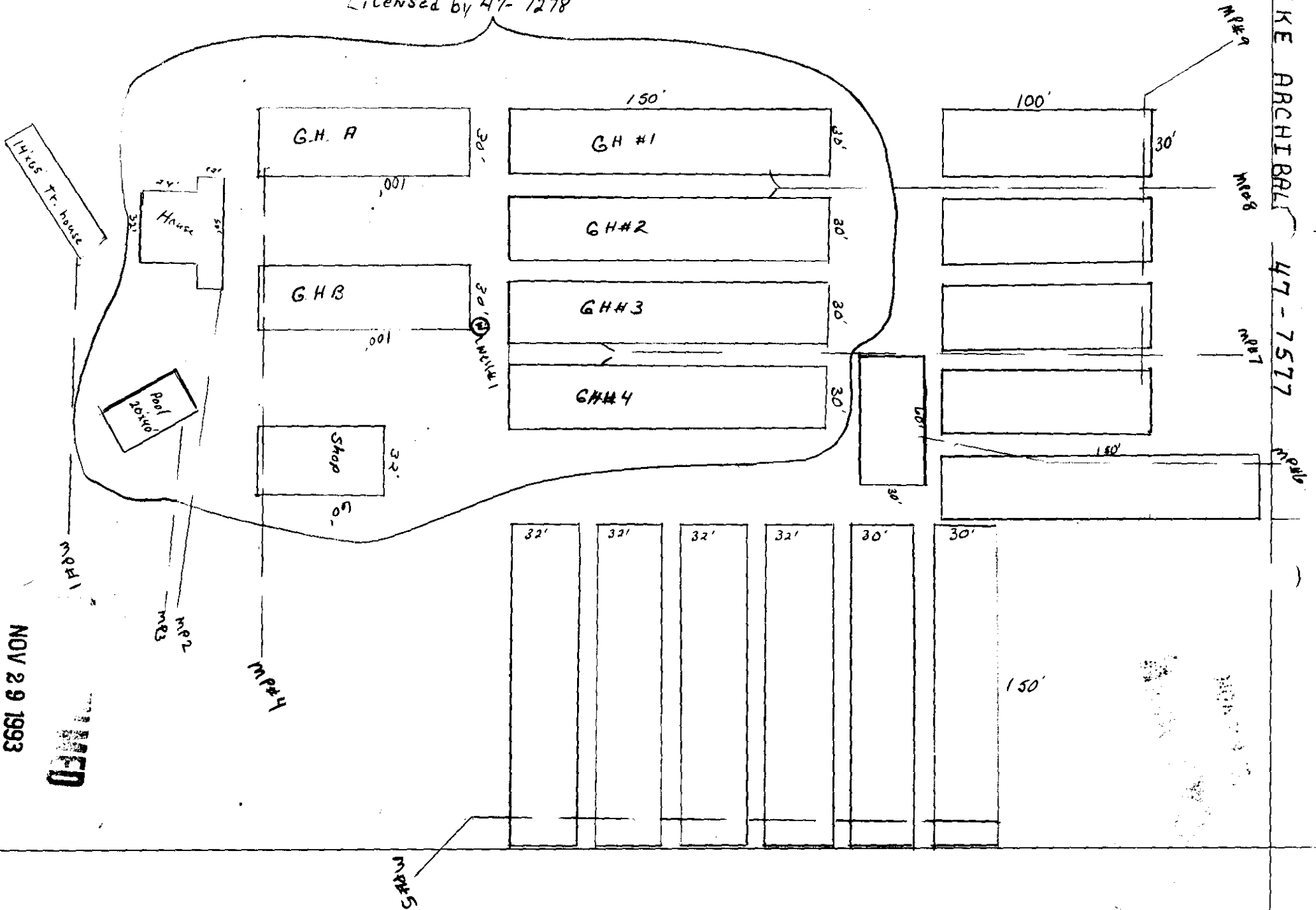
NO. 28701



42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE
MADE IN U.S.A.

MIKE ARCHIBALD 47-7577

Licensed by 47-7278



NOV 29 1993

MEU

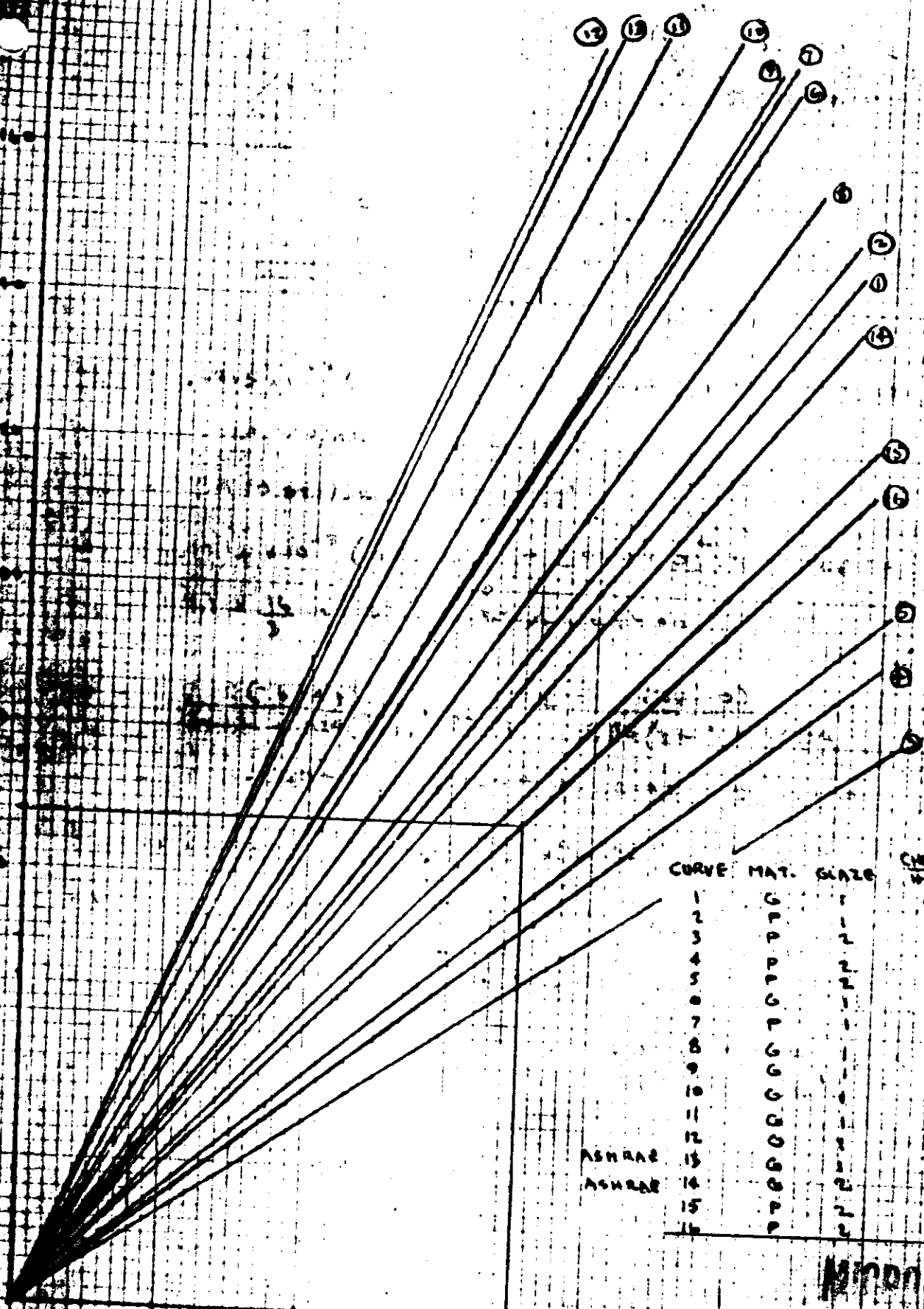
85.14E.

29

1000

29 1993

DESIGN HEAT REQUIRED FOR GREENHOUSE - 1.5/1
WALL / DOOR OF 1.5/1



CURVE	MAT.	GLAZE	CHASSIS	ROOF
1	GL	1	0	0
2	GL	2	0	0
3	GL	2	0	0
4	GL	2	0	0
5	GL	2	0	0
6	GL	2	0	0
7	GL	2	0	0
8	GL	2	0	0
9	GL	2	0	0
10	GL	2	0	0
11	GL	2	0	0
12	GL	2	0	0
13	GL	2	0	0
14	GL	2	0	0
15	GL	2	0	0
16	GL	2	0	0

ASHRAE
ASHRAE

NOTIFIED

NOV 20 1964

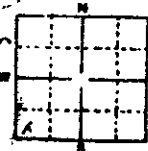
INSIDE MINUS ΔT OUTSIDE TEMPERATURE (°F)

USE TYPEWRITER 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 of a well for the purpose of obtaining a permit.

1. WELL OWNER Name <u>Michael Archibald</u> Address <u>Rt 3 Buhl, Idaho</u> Owner's Permit No. <u>42-1278</u>		7. WATER LEVEL Elevation of level _____ feet before and after Static level ☒ Yes ☐ No G.P.M. flow <u>3.6</u> Temperature <u>110</u> F. Quality <u>Good</u> Pressure at depth <u>110</u> P.S.I. Controlled by ☒ Valve ☐ Cap ☐ Plug																																																																			
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (Describe method of abandoning)		8. WELL TEST DATA ☐ Pump ☐ Bailor ☐ Other Discharge G.P.M. <u>3.6</u> Draw Down _____ Hours Pumped _____																																																																			
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (Specify type) ☐ Municipal ☐ Industrial ☒ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <table border="1"> <thead> <tr> <th>Depth</th> <th>Material</th> <th>Water</th> </tr> <tr> <th>From To</th> <th></th> <th>Yes No</th> </tr> </thead> <tbody> <tr><td>0 22</td><td>Tan clay</td><td></td></tr> <tr><td>22 33</td><td>Grey sand</td><td></td></tr> <tr><td>33 53</td><td>Reddish and sandy clay</td><td></td></tr> <tr><td>53 88</td><td>Grey clay</td><td></td></tr> <tr><td>88 100</td><td>Tan clay - basalt</td><td></td></tr> <tr><td>100 155</td><td>Tan sandy clay</td><td></td></tr> <tr><td>155 178</td><td>Dark grey clay - basalt</td><td></td></tr> <tr><td>178 184</td><td>Brown clay</td><td></td></tr> <tr><td>184 192</td><td>Grey clay</td><td></td></tr> <tr><td>192 213</td><td>Black basalt</td><td></td></tr> <tr><td>213 226</td><td>Brown basalt & clay</td><td></td></tr> <tr><td>226 242</td><td>Black basalt</td><td></td></tr> <tr><td>242 259</td><td>Grey shale</td><td></td></tr> <tr><td>259 281</td><td>Grey basalt</td><td></td></tr> <tr><td>281 313</td><td>Grey shale</td><td></td></tr> <tr><td>313 368</td><td>Grey shale - brown gravel</td><td></td></tr> <tr><td>368 418</td><td>Green clay</td><td></td></tr> <tr><td>418 440</td><td>Light grey clay</td><td></td></tr> <tr><td>440 445</td><td>Tan clay</td><td></td></tr> <tr><td>445 510</td><td>Grey shale</td><td></td></tr> </tbody> </table>		Depth	Material	Water	From To		Yes No	0 22	Tan clay		22 33	Grey sand		33 53	Reddish and sandy clay		53 88	Grey clay		88 100	Tan clay - basalt		100 155	Tan sandy clay		155 178	Dark grey clay - basalt		178 184	Brown clay		184 192	Grey clay		192 213	Black basalt		213 226	Brown basalt & clay		226 242	Black basalt		242 259	Grey shale		259 281	Grey basalt		281 313	Grey shale		313 368	Grey shale - brown gravel		368 418	Green clay		418 440	Light grey clay		440 445	Tan clay		445 510	Grey shale	
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4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other																																																																					
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>510</u> feet Casing schedule ☒ Steel ☐ Concrete <table border="1"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>350 inches</td><td>8 inches</td><td>0</td><td>117 feet</td></tr> <tr><td>360 inches</td><td>6 inches</td><td>1</td><td>210 feet</td></tr> <tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr> <tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr> <tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr> </tbody> </table> Was a packer or seal used? ☒ Yes ☐ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr> <tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr> <tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr> </tbody> </table> Test 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 Use - packer? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>50'</u> Material used in seal ☒ Cement grout ☐ Pudding clay ☐ Well cuttings Sealing procedure used ☐ Shury pit ☒ Temporary surface casing <u>6" grout 150-210'</u> ☐ Overbars to seal depth		Thickness	Diameter	From	To	350 inches	8 inches	0	117 feet	360 inches	6 inches	1	210 feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																
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_____ perforations	_____ feet	_____ feet																																																																			
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Twin Falls</u> S.W. & S.W. 1/4 Sec. 33, T. 8 N., R. 14 E.		10. Work started <u>1-NOV-1974</u> finished _____																																																																			
11. DRILLER'S CERTIFICATION Firm Name <u>_____</u> Firm No. <u>_____</u> Address <u>_____</u> Date <u>Sept 90</u> Signed by (Firm Official) <u>_____</u> and <u>_____</u> (Operator) <u>_____</u>																																																																					

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

NOV 29 1993

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.

[illegible]

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

NOV 29 1993

WELL DRILLER'S REPORT

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

1. WELL OWNER

Name Mike ArchibaldAddress Rt. 3, Buhl, IdahoOwner's Permit No. 47-7577

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
250 inches	12 inches	1 feet	119 feet
250 inches	9 inches	1 feet	278 feet
190 inches	6 inches	135 feet	470 feet

Was casing drive shoe used? ☒ Yes ☐ NoWas a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow 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 35' Material used in seal: ☐ Cement grout☒ Pudding clay ☐ Well cuttingsSealing procedure used: ☐ Slurry pit ☒ Temp. surface casing☒ Overbore to seal depthMethod of joining casing: ☐ Threaded ☒ Welded ☐ Solvent☐ Cemented between strataDescribe access port flowing well

7. WATER LEVEL

Static water level _____ feet below land surface

Flowing? ☒ Yes ☐ No G.P.M. flow 400Artesian closed-in pressure 55 p.s.i.Controlled by: ☒ Valve ☐ Cap ☐ PlugTemperature 113 OF. Quality very good

8. WELL TEST DATA

- ☐
- Pump
- ☐
- Bailor
- ☐
- Air
- ☐
- Other

Discharge G.P.M.	Pumping Level	Hours Pumped

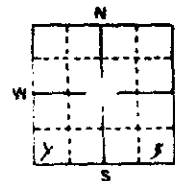
9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water		
	From	To		Yes	No	
12	0	9	Brown clay		X	
	9	35	Brown sand	X		
	35	43	Gray basalt		X	
	43	57	Gray-brown clay			
	57	72	Gray basalt			
	72	92	Brown clay			
8	92	137	Gray basalt			
"	137	142	Brown basalt			
"	142	163	Gray basalt			
"	163	175	Dark gray-brown clay			
	175	209	Gray basalt			
	209	213	Brown clay & brn basalt			
	213	219	Brown basalt			
	219	253	Brown basalt			
	253	257	Green clay			
	257	270	Tan clay w/ thin layers of basalt			
	6	270	306	Tan clay w/ shale layers		
		306	327	Hard gray shale	X	
		327	352	Gray-brn clay w/ shale in layers	X	
		352	379	Gray-brown shale w/ clay in 1-2' layers		X
379		409	Gray clay			
409		416	light tan clay			
416		420	Dark green shals			
420		441	light green clay			
441		550	Gray-brn shale			
550		470	Gray shale			
470		497	Dark grey shale			
497		507	light grey shale			
507		510	Black rhyolite	X		
510		556	Brown rhyolite			
556		573	Black rhyolite			
573		584	Gray shale			
584	632	Black rhyolite				

10. Work started 1 May 1983 Finish 5 July 1983

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. 7 Block No. _____County Blaine

11. DRILLERS CERTIFICATION

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

Firm Name Blaine Drilling Firm No. 86Address Portsmouth, Idaho Date 5 July 1983Signed by (Firm Official) Blaine Drillingand
(Operator) Blaine Drilling

MICROFILMED

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

MAY 9 1993

MEMORANDUM

TO: FILE

FROM: ROXANNE MCCARTHY

RE: BANBURY GWMA

DATE: 1-FEB-1990

This file has gone through pre-license review and been returned to the vault until further decisions are made concerning this groundwater management area.

MICROFILMED

NOV 29 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region

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

AUGUST 29, 1984

MICHAEL L. ARCHIBALD
RT. 3 BOX 425
Buhl ID 83316

RE: Permit No. 47-7577

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

NOV 29 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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

138078

ARCHIBALD, MICHAEL L.
ROUTE 3
BUHL,, ID 83316

PROOF DUE NOTICE

JULY 31, 1984

DEAR PERMIT HOLDER:

ONE OF THE CONDITIONS OF APPROVAL OF YOUR WATER PERMIT NO. 47-7577 WAS THAT PROOF OF THE EXTENT OF YOUR BENEFICIAL USE MUST BE SUBMITTED TO THIS OFFICE ON OR BEFORE OCTOBER 01, 1984. (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.

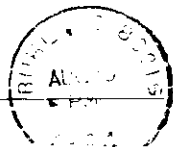
SINCERELY,

RITA FLECK
SECRETARY/RECORDS MANAGER

ENCLOSURES

MICROFILMED

MICHAEL ARCHIBALD
RD. 3
BUHL, IDA.
83316



RECEIVED

AUG 13 1984



IDAHO DEPARTMENT OF WATER RESOURCES
Department of Water Resources STATEHOUSE
BOISE, IDAHO 83720

RECEIVED

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. 47-7577

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

Post Office Address: RT 3 BOX 425 BUHL, IDAHO
83316 Tel. No. _____

Source of Water: GROUND

Extent of Use: ☐ Domestic (number of households)
☐ Stockwater (number and type of stock)
☐ Irrigation (acres)
☒ Other HEAT GREENHOUSES

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.

8-6-84 Date MICHAEL L. ARCHIBALD Signature of Permit Holder

RECEIVED
DEC 2 1983

INTER-DEPARTMENT MEMO — 1

To John Beal

GARY
Lo-en Holmes Lt

Department of Water Resources

DATE 7/19/83

RECEIVED

JUL 21 1983

SUBJECT Mike Archibald Well -

Department of Water Resources
San Diego District Office

Pls have this well inspected.
Check for leakage and have well
shut-in - Get pressure & temp
readings John sorry it took so long
Everything looks good.
Water temp 110.3°F Pressure Reader 63 PSI

John Beal

SIGNATURE



BLAINE BOLEY, JR.
TELEPHONE 432-5581

FRED HENRY
TELEPHONE 432-5581

BOLEY & HENRY

WELL DRILLING
MURTAUGH, IDAHO 83344

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

10' - 7 G.P.M.

increases to 40 G.P.M. by

55' no increase until

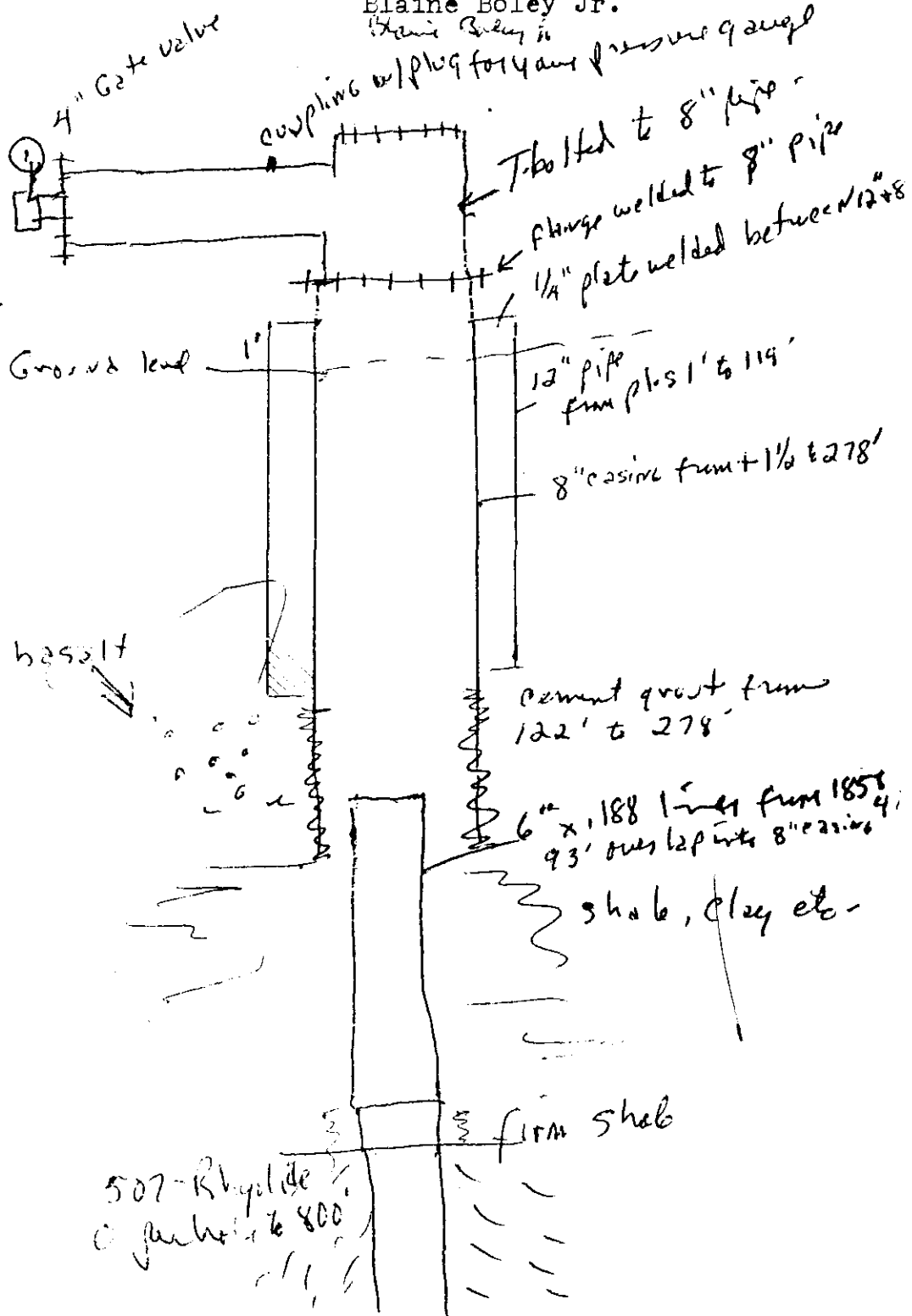
20 when flow begin to pick

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

increases at 682, 710 & 732

largest flow at 752' very

small increase after 752'



Point 47-7577

Nike Archibaldwell-

drill to 280 feet - 12 inch - install 280 feet of 8 5/8"
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 in 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 after - 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.

Blaine Boley II

MICROFILMED

NORMALLY Cemented top to Bottom

Would consider concrete Plug

What is Cement? Cement to get to lay

What is Above 90' - How Sealed with low grade Bestment. ^{cutting for well}
Would like to consider

Junction of 4" & 8"

10' plug - 40-50' ft.

Set Plug 3' or greater
get concrete 8" size

8" as far as possible then 6" with 6" line

Small flows in shale will reduce within a day
or two



RECEIVED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR
BALLPOINT PEN

JUL 25 1983

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources

Department of Water Resources within 30 days after the completion or abandonment of the well.

RECEIVED
JUL 25 1983

1. WELL OWNER

Name Mike Archibald

Address Rt. 3 Buhl, Idaho

Owner's Permit No. 47-7577

7. WATER LEVEL

Static water level _____ feet below _____ surface

Flowing? ☒ Yes ☐ No G.P.M. flow 120

Artesian closed-in pressure 55 p.s.i.

Controlled by: ☒ Valve ☐ Cap ☐ Plug

Temperature 113 °F. Quality very good

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning) _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Air ☐ Other _____

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal

☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

☒ Other Geothermal (specify type) _____

Discharge G.P.M.	Pumping Level	Hours Pumped

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary

☒ Cable ☐ Dug ☐ Other _____

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
12	0	8	Brown clay		X
	8	35	Brown sand	X	
	35	48	Grey basalt		X
	48	67	Grey-brown clay		
	67	72	Grey basalt		
	72	92	Brown clay		
8	92	137	Grey basalt		
"	137	142	Brown basalt		
"	142	168	Grey basalt		
"	168	175	Dark grey-brown clay		
	175	209	Grey basalt		
	209	213	Brown clay & brn basalt		
	213	219	Brown basalt		
	219	253	Brown basalt		
	253	257	Green clay		
	257	270	Tan clay w/thin layers of basalt		
6	270	306	Tan clay w/shale layers		
	306	327	Hard grey shale	X	
	327	352	Grey-brn clay w/shale in layers	X	
	352	378	Grey-brown shale w/clay in 1-2' layers		X
	378	409	Grey clay		
	409	416	Light tan clay		
	416	420	Dark green shale		
	420	441	Light green clay		
	441	450	Grey-brn shale		
	450	470	Grey shale		
	470	487	Dark grey shale		
	487	507	Light grey shale		
	507	510	Black rhyolite	X	
	510	556	Brown rhyolite		
	556	578	Black rhyolite		
	578	584	Grey shale		
	584	632	Black rhyolite		

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	12 inches	1 feet	119 feet
.250 inches	8 inches	1 1/2 feet	278 feet
.188 inches	6 inches	185 feet	470 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 35' 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 1 May 1983 finished 1 July 1983

6. LOCATION OF WELL

Sketch map location must agree with written location.

N

W E

S

Subdivision Name _____

Lot No. 7 Block No. _____

County Twin Falls

SW 1/4 SW 1/4 Sec. 33, T. 8 N/S. R. 14 E.

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 5 July, 1983

Signed by (Firm Official) Blaine Boley

and

(Operator) Russ Boley

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

RECEIVED

JUL 15

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.

15 1983
Department of Water Resources
Southern District Office

[illegible]

BLAINE BOLEY, JR.
TELEPHONE 433-5581

FRED HENRY
TELEPHONE 433-5581

BOLEY & HENRY

WELL DRILLING
MURTAUGH, IDAHO 83344

JUL 13 1983

Attn: John Beal

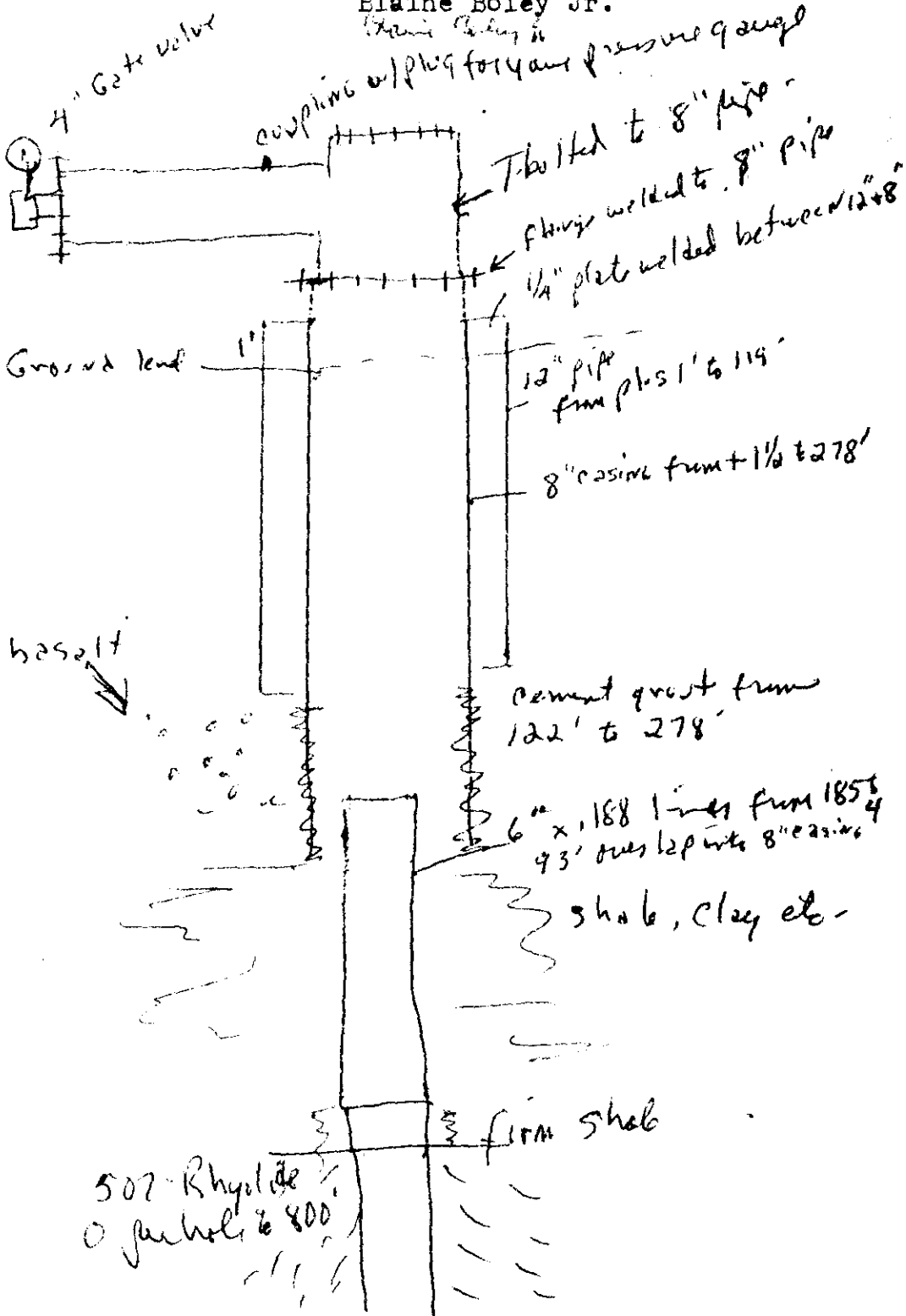
John I wasn't sure if you wanted a diagram of the Mike Archibald well, permit #47-7577 after it was completed or not. Anyway here it is, the well has been completed and you can inspect it any time. I have enclosed a copy of the state log for your information, the original has been sent to the Twin Falls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

Sincerely,
Blaine Boley Jr.

flows

7 G.P.M.

increased to 40 G.P.M. by
5' no increase until
when flow began to pick
flow is 80 G.P.M. at 550'
increased at 642, 710 & 732'
greatest flow at 752' very
15" increase after 752'



MICROFILMED

507-Rhyolite
0 feet to 800'

CONVERSATION MEMORANDUM

DATE 7/7/83

NAME OF PARTY Blaine Boley

EMPLOYEE John Beal

FILE

Boley

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 a key).

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

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

RECORDED



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

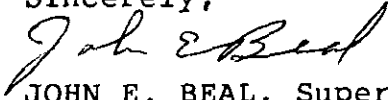
Blaine Boley, Jr.

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

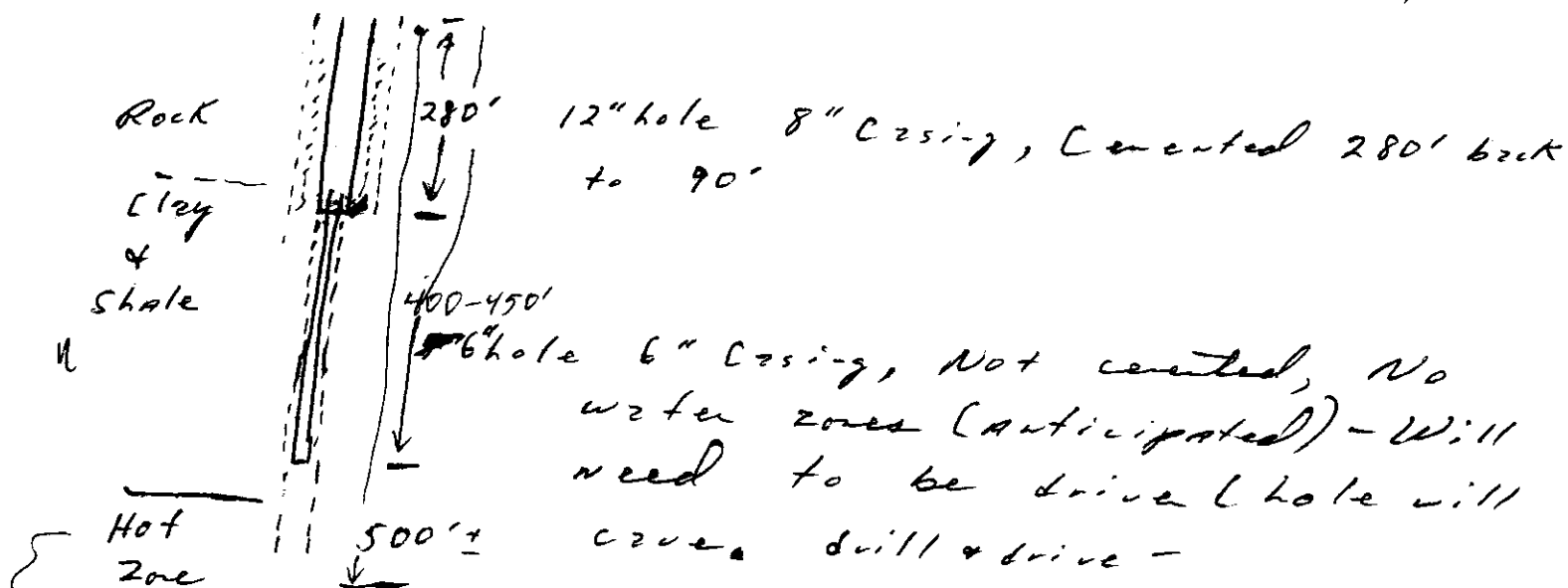
5/17/83 (2)

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
5/11/83
His plan is -



pressure in this area
generally over 80' above land
surface - Max 190' above land surface

MICROFILMED

print # 47- 7577

Mike Archibaldwell -

dull to 280 feet - 12 inch - install 280 feet of 8 7/8" 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 open - 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 19 1923

Department of the Interior

Blaine Boley II

UNRECORDED

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



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

November 2, 1979

Michael L. Archibald
Route # 3
Buhl, Idaho 83316

Dear Mr. Archibald,

RE: Permit No. 47-7577

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

Be sure to 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. Enclosed are specifications for the installation of the access port, as well as a list of measuring device options.

Sincerely,

David R. Tuthill Jr.

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

DRT:lr

Enclosures

MICROFILMED

47-7577
ARCHIBALD, MICHAEL L.
ROUTE 3, BUHL, ID 83316
Source: GROUNDWATER
Date Filed: 09/12/1979
Amount: 1.71 CFS
Diversion Point: LOT 07 Sec
33 T 08S R 14E, TWIN
FALLS Co.
Use: HEATING (1.70 CFS)
from 01/01 to 12/31
COMMERCIAL (0.01 CFS)
from 01/01 to 12/31
Place of Use: LOT 07 Sec 33
T 08S R 14E
Diversion Means: EXISTING

AND NEW ARTESIAN
HOT-WATER WELLS
If issued, the permit(s) will
be subject to all prior water
rights. Protests against the
granting of any permit must
be filed with the Director of
Idaho Department of
Water Resources, 1041 Blue
Island Blvd. North, Twin
Falls, Idaho 83301 and re-
ceived on or before
OCTOBER 15, 1979.
C. STEPHEN ALLRED
Director
CUSH: Thursday, Sept.
12 and Oct. 4, 1979.

MICROFILMED

Affidavit of Publication

STATE OF IDAHO,
COUNTY OF TWIN FALLS } ss.

No 8725

I, Ronda L. Cooper being first duly sworn upon
oath, depose and say that I am Print Clerk of the TIMES-NEV.
published daily, 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 weeks, commencing with the issue dated
September 27, 1979, and ending with the issue dated
October 4, 1979.

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,
until July 31, 1978, at which time said newspaper began daily publication 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 com-
petent 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 there-
of, Thursday is announced as the day on which said legal notices will be published.

Ronda L. Cooper
Subscribed and sworn to before me on this 5 day of

October, 1979.

Thelma Rowlett-Smith
Notary Public in and for the County of Twin Falls,
State of Idaho, residing at Twin Falls, Idaho

NOTICE OF APPLICATION FOR WATER RIGHT

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

42-7522

ARCHIBALD, MICHAEL L.

ROUTE 3, BUHL, ID 83316

Source: GROUNDWATER

Date Filed: 09/12/1979

Amount: 1.71 CFS

Diversion Point: LOT 07 Sec 33 T 08S R 14E, TWIN FALLS Co.

Use: HEATING	(1.70 CFS)	from 01/01 to 12/31
COMMERCIAL	(0.01 CFS)	from 01/01 to 12/31

Place of Use: LOT 07 Sec 33 T 08S R 14E

Diversion Means: EXISTING AND NEW ARTESIAN HOT WATER WELLS

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1041 Blue Lakes Blvd. North, Twin Falls, Idaho 83301 and received on or before OCTOBER 15, 1979.

C. STEPHEN ALLRED

Director

Published 9/27 & 10/4/79.

ok
maysa
9/2/79

47-7577
ARCHIBALD, MICHAEL L.
ROUTE 3, BUHL, ID 83316
Source: GROUNDWATER
Date Filed: 09/12/1979
Amount: 1.71 CFS
Diversion Point: LOT 07 Sec
33 T 08S R 14E, TWIN
FALLS Co.
Use: HEATING (1.70 CFS)
from 01/01 to 12/31
COMMERCIAL (0.01 CFS)
from 01/01 to 12/31
Place of Use: LOT 07 Sec 33
T 08S R 14E
Diversion Means: EXISTING
AND NEW ARTESIAN
HOT-WATER WELLS
If issued, the permit(s) will
be subject to all prior water
rights. Protests against the
granting of any permit must
be filed with the Director of
the Idaho Department of
Water Resources, 1041 Blue
Lakes Blvd. North, Twin
Falls, Idaho 83301 and re-
ceived on or before
OCTOBER 15, 1979.
C. STEPHEN ALLRED
Director
PUBLISH: Thursday, Sept.
27, and Oct. 4, 1979.

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

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

SEPTEMBER 13, 1979

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

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. We have allowed ample time for you to submit a sales proof to this office for review before the first publication date. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before OCTOBER 15, 1979.

Yours truly,

Mary A. Hill
Secretary

Encl.

RECEIVED
SEP 14 1979
TWIN FALLS, IDAHO



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

October 23, 1979

Mr. Alex Schaefer
Department of Health & Welfare
Division of Environment
P. O. Box 1626
Twin Falls, Idaho 83301

Re: Application for Permit No. 47-7574, 47-7575, 47-7576, 47-7577

Dear Mr. Schaefer:

Enclosed are copies of the above referenced applications for your information and files.

Sincerely,

Mary A. Hill
Secretary

for

Loren O. Holmes
Southern Region Supervisor

Encl:

47-7577