

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

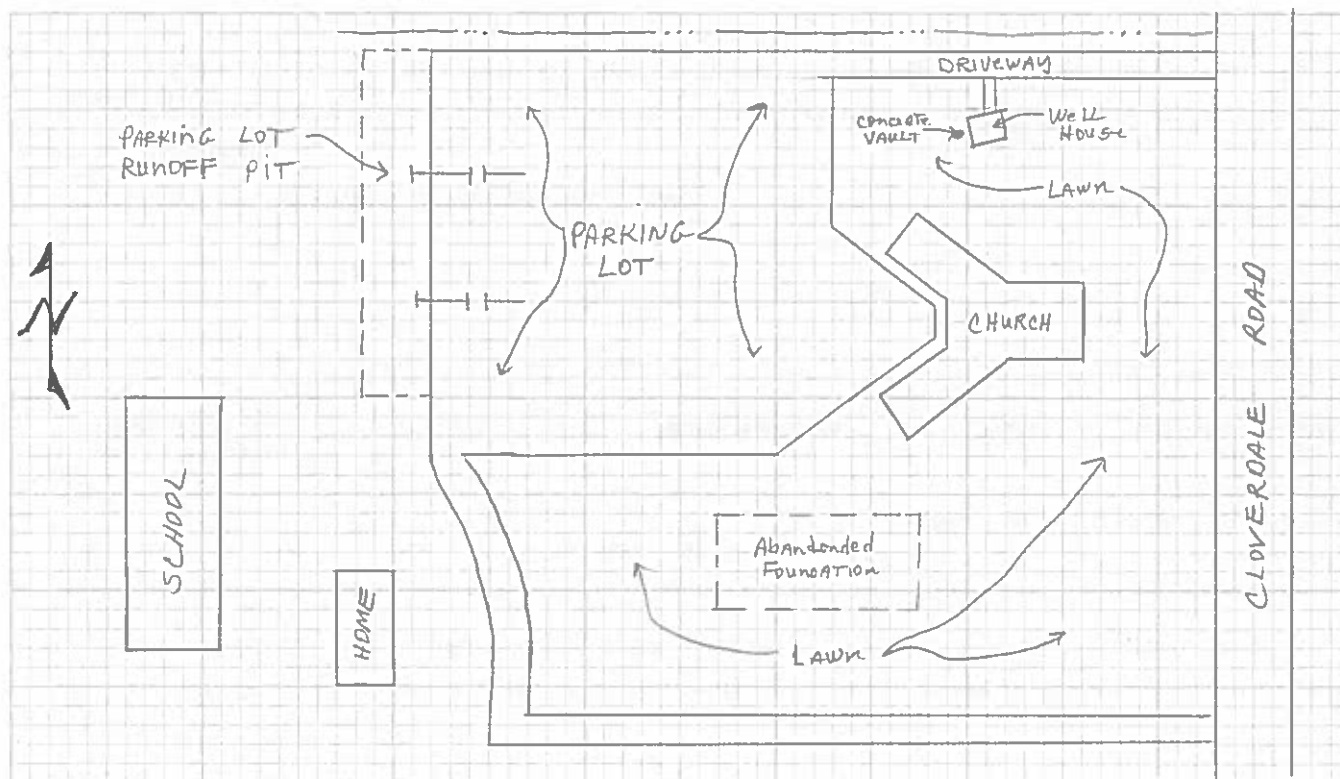
Permit No. 63-10719
1. Owner: SEVENTH DAY ADVENTIST CHURCH Phone No. 375-5917
Current Address: 1115 N. CLOVERDALE BOISE, ID. 83704
2. Accompanied by: CURT KISLUNG EXAM. DATE: 6/4/93
Address: _____ Phone No. SAME
Relationship to Permit Holder: CUSTODIAN OF CHURCH
3. Source: GROUNDWATER tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: 63-00164C ☐ Copies Attached
2. Other water rights with same point of diversion: 63-11232 ☒ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = NTS

2. ☒ Copy of U.S.G.S. Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required). ☐ Aerial Photo Attached (required for irrigation of 10 acres or more).
☒ Photo of Diversion and System Attached (required for all but single household domestic groundwater, and stockwater).

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

A 10 h.p. pump in a 6" well supplies water to church, which contains 31 separate fixtures. Water for irrigation is only used as a backup or when ditch water is not available. When well water is used to irrigate the approximate 7 acres, water is supplied through an underground sprinkling system. Two pressure tanks in well house are available if the church decides to hook up to Boise water. The four pressure tanks in the underground vault are used in the present system.

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	FRANKLIN	10	21-0026	STA-RITE	21F890

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		SE	NE		9	3N	1E	Ada	Quad. map

6. Place(s) of Use:

Indicate Method of Determination SAME AS P/D

Twp.	Rge.	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
3N	1E	9				7													7

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 gallon bucket						

2. Measurements:

5 gallon bucket from Spigot in storage room of church

$Q = 5 \text{ gal} / 30 \text{ sec} = 10 \text{ gpm} = 0.02 \text{ CFS (presumed)}$

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method: $Q = 10 \text{ gpm} = 0.02 \text{ CFS (presumed)}$
 ~~$Q = 31 (\text{Fixtures}) \times 1 = 31 \text{ gpm} = 0.07 \text{ CFS}$~~

also 2. Alternate Method for Checking Purposes: $Q = 31 (\text{Fixtures}) \times 1 = 31 \text{ gpm} = 0.07 \text{ CFS}$

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: 52 psi x 2.31 = 120.12 ft (1); Dynamic pumping level: 68 ft (2) 0.33
 Total Head: (1) + (2) = 160.12 (3) $Q = \frac{(8.8)(10)(0.7)}{160.12} \approx 0.40 \text{ CFS}$: Flow rate: 0.40 cfs (4)
 ~~120.12~~ 0.50 0.33

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 7 \times 4.5 = 31.5 \text{ AFA}$
 $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \frac{0.04}{2.14} \times \frac{240}{240} \times 1.9835 = 19.5 \text{ AFA}$
 $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 19.5 \text{ ST.5 AFA}$

2. Volume Calculations for Other Uses:

$V_{\text{INTERNAL}} = 0.6 \text{ AFA}$

TOTAL Volume = 32.1 AFA
20.1 AFA

H. REMARKS AND OVERLAP REVIEW ANALYSIS

OVERLAPS - P/U - SAME RQ, DIFFERENT AREA

P/O - SAME P/O, SAME SOURCE - WELLS side by side.

Theoretical calculations, 0.07 cfs + ~~0.07~~^{0.33} cfs. both exceed the requested allocations of 0.04 cfs domestic and 0.14 cfs irrigation. Therefore recommend Licensing as requested for 0.04 cfs domestic and 0.14 cfs irrigation.

OVERLAP - 63-11232 uses a 16" cased well, 63-10719 uses a 6" cased well in same 28" overbore. SEPARATE Pumps. Drilled by Reto Corp. See well Log Report enclosed.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	3/15	11/15	~~0.14~~ 0.04	~~31.5~~ 19.5
DOMESTIC	1/1	12/31	0.04	0.6
Totals:			~~0.18~~ 0.04	~~32.1~~ 20.1

2. Recommended Amendments

☐ Change P.D. as reflected above

☐ Add P.D. as reflected above

☒ None

☐ Change P.U. as reflected above

☐ Add P.U. as reflected above

☐ Other

J. AUTHENTICATION

Field Examiner's Name

Rick Collingwood

Signature

Rick Collingwood

Certification Date

Field Report Preparation Date

6/22/93

CONSULTANT SEAL

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Staff Analysis Sheet
for
Beneficial Use Field Report

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

☒ Blank Field Report Form

☒ Copy of Permit

☒ Copies of any Amendments/Orders with Conditions of Approval

☒ Well Inspection Form (If Needed)

MA ☒ Aerial Photo Required? ☐ yes ☒ no If yes: ☐ copy attached

N/A ☒ SRBA Attachment A Submitted to Adjudication Section

SRBA Claim Check Received 3-20-91 KICC (initial & date)

☒ N/A ☐ Applicable, See Attachment A a 1989 survey for Adj's claim found.

☒ Copy of U.S.G.S. Quad

manually unrecordable ☒ Check for Government Lots. If so, make a copy of government plat

☒ Check of P/D index 3-20-91 (initial & date)

Overlap ☒ yes ☐ no If yes: ☐ copy of exam(s) attached?

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

☐ Increase rate of flow or volume

☒ Other: other right in same Q.Q diff system

☒ Check of P/U index 3-20-91 (initial & date)

Overlap? ☒ yes ☐ no If yes: ☐ copy of water right(s) attached?

Type of Overlap? ☐ Increase rate of flow or volume

☐ Add P/D's

☐ Increase number of acres within tracts

☒ Other: another right same Q.Q diff source

☒ Scheduling Letter Sent? 7/24/92 RC (initial & date)

☒ Appointment Made and Telephone Conversation Memo Attached 5/18/93

B. After Conducting the Exam, the File Contains:

☒ Fully Completed and Signed Field Report Form

☒ Photographs of Point of Diversion and Place of Use

N/A ☐ Copy of SRBA Claim Verification Sheet / ☐ Original Returned to Adjudication Section

C. Review and Processing:

Exam Completed Rick Collingwood 6/22/93 (signature of examiner & date)

Exam Reviewed by Senior Water Resource Agent _____ (initial & date)

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

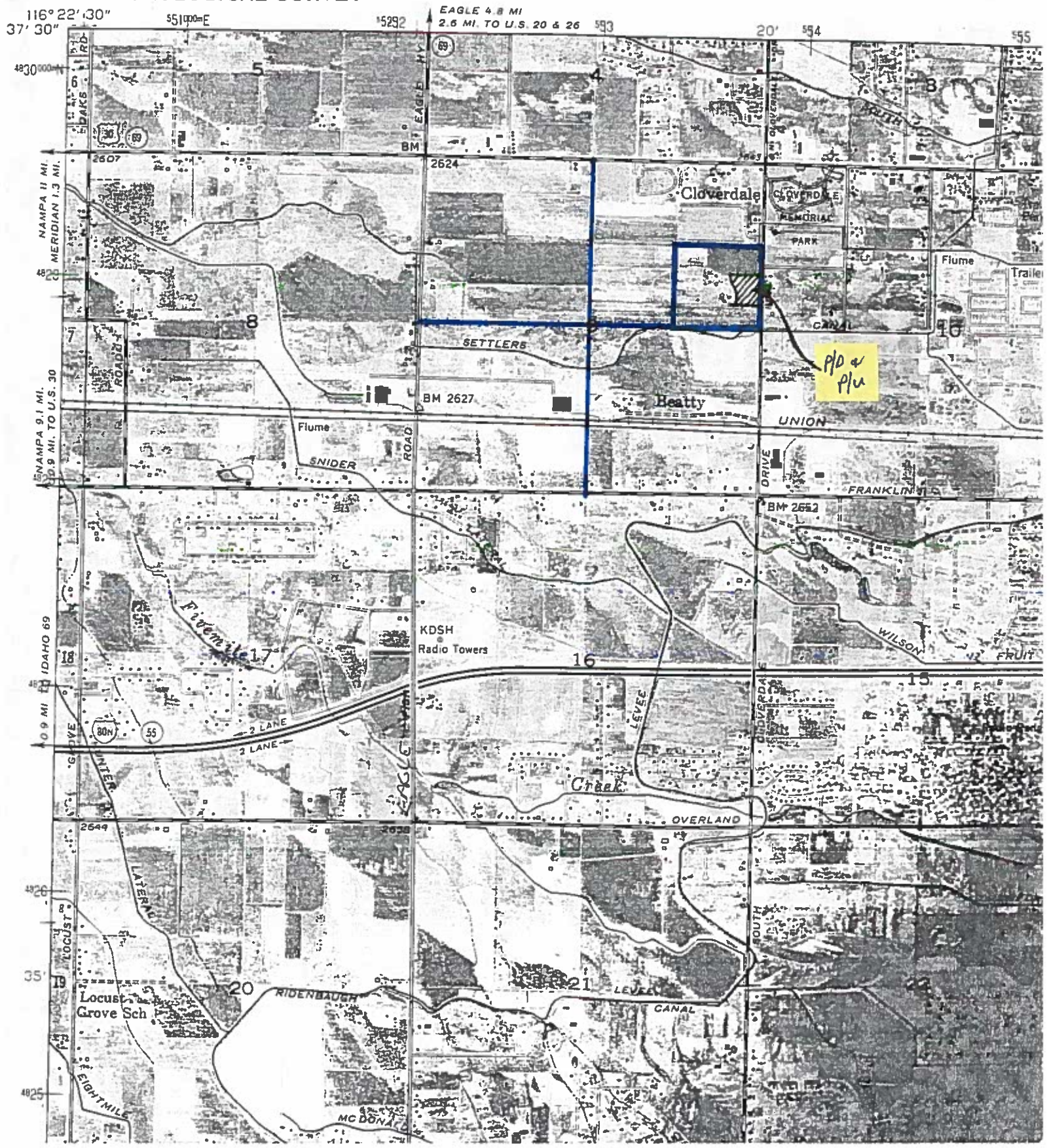
Exam Sent to State Office _____ (initial & date)



State of Idaho
DEPARTMENT OF WATER RESOURCES

ERMIT 63-10719 INIT KKC
T. R. S. 0/0
P/D 3N 1E 9 SE/NE
SCALE
PHOTO ID. X-58 Cloverdale

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Department of Water Resources

WELL INSPECTION FORM

If well is associated with water right, provide WR# 63-10719

Otherwise provide legal description and a sketch map and/or address so that the well can be located easily.

1. Legal Description: TWP 3N, Rge 1E, Sec. 9, SE 1/4 NE 1/4 or Lot .

2. Owner: Seventh Day Adventist Church
Address 10552 Garverdale Court, Suite 900, City Boise, St ID

3. Casing $\geq$ 12 inches above ground: Yes No ✓

4. Access Port:	Yes <u> </u> No <u>✓</u>	Static Water Level:	<u>30'</u> <u>10'</u>
Pressure Gauge:	Yes <u> </u> No <u>✓</u>	Casing Diameter:	<u>8" 6"</u>
Flowing:	Yes <u>✓</u> No <u> </u>	Temperature:	<u>N/A</u>

5. Are there any obvious construction problems that may be a source for contamination or waste of water: Yes No ✓

If answer to Item 5 is Yes, describe in remarks and attach photo.

Remarks:

Burgess (Installed Pump) Eagle
(Seventh-Day Adventist) 939-6603
406-6675

65-13262

6" Casing
10 h.p.

(2) Pressure Tanks in Boise Water Well House
Model # 120F (Con-Aire) Sta Rite
Present pressure 60 psi
Static level 30' as per Boise Water

NOT
in use

(4) Pressure Tanks in underground vault
Model # 220F (Con-Aire - Sta Rite)
52 psi

6' x 8' Vault (concrete)

Church

11 sinks
4 urinals
11 Toilets
1 Slop Poon Sink
4 Drinking Fountains

Flow (In church) 5 gal / 30 sec = 10 gpm

(Irrigated Lawn Areas)

(primary In from
Settlers Canal)

$$235' \times 450' = 105,750$$

$$165' \times 150' = 24,750$$

$$75' \times 400' = 30,000$$

$$180' \times 50' = 9,000$$

≈ 8.1 ac

$$100' \times 180' = 18,000$$

$$450' \times 110' = 49,500$$

(Parking Lot drainage)?

$$2 \times (4 \times 200) = 1600$$

$$8 \times (4 \times 40) = 1280$$

$$630' \times 10' = 6300 \quad 400 \times 30 = 12,000$$

$$400 \times 175 = 70,000 \quad 150 \times 150 = 22,500$$

H. REMARKS and OVERLAP REVIEW ANALYSIS (cont'd)

Normally, 0.01 cfs, $\frac{1}{2}$ " per acre, is lowest rate used for Licensing. The application is for irrigation of 7 acres. However, since this system is only used as a backup for main irrigation system, which is Settlers Canal, this request of 0.04 cfs for 7 acres can be considered as a beneficial use of water.

Rick

7/7/93
JR

Initial Review notes:

Note from recent B/U exam: 63-11232 uses a 16" cased well
63-10719 uses a 6" cased well in the
same 28" overbore. Separate pumps.
Drilled by Pete Cope.
See well log casing report in
well log files. July 7/8/93

① Overlap

63-11232 = BWC well adjacent to Chuck well? if so,
include this specific info in part H of report.

63-001646 - I wonder if that's the ditch water
referred to in narrative? Not too important to know
this answer - just important to show - as you did -
that ditch H₂O is 1st source for irrigation.

② System capacity $\geq .30$ cfs per hp irfs.

For License Rec'd: limiting factor is proof of b.u.
where paid no fee so limit of license is
0.04 cfs.

Normally, $\frac{1}{2}$ " per acre is lowest rate with license for
irrigation use - less than that is not considered a
beneficial use of H₂O.

$\frac{1}{2}$ " = .01 cfs, .04 cfs can be applied to 4 or 7
Acres.

However, in this case would argue that .04 cfs can be
a b.u. for 7 acres since used only as needed
to supplement ditch water.

Suggest
add some
language
like
this to
remarks

- continued -

- ③ So capacity $\approx .30$ cfs $\pm$; what cfs to rec'd?
- | | | | |
|----------|-----|-----|-------------------------------|
| Domestic | .04 | cfs | } limited by no \$ in
pump |
| Irrig. | .04 | cfs | |
| total | .04 | cfs | |

What is volume?



④ VOLUME

- a) Domestic - check - do not use .6 AFA as do with home.

Want gallons/year need so can convert to a.f.
One of 2 ways:

- ① max # people at given time in a year
max # days of use per year
est. # gallons/person required - recommend use
 ≈ 15 gallons/day/person

$$V_R = \frac{\# \text{ people} \times \# \text{ days} \times \text{gallons/day/person}}{325,850 \text{ gallons/af}}$$

vs.

$$V_D = \frac{\text{cfs} \times \text{days in year}}{\text{permit}} \times 1.9835$$

$$.04 \times 365 \times 1.9835 = 29.0 \text{ Af}$$

(this is volume capacity @ .04 cfs for /yr.)

- ② OR could use Appendix A, ps. 18, 20, 21 from Exam Hdbk.

- b) Irrig - for V_D use .04 cfs since can't recommend more than this.

- c) Total volume ≤ 29.0 since can't exceed this in our recommendation.



PHOTO ONE- Well House which contains Seventh Day Adventist well along with Boise Water Corp well. Located north of church.



PHOTO TWO- Well inside of well house. Boise Water Corp. constructed their well, 16" casing, next to church well.



PHOTO THREE- Two of six Pressure Tanks in well house.



PHOTO FOUR- Pressure tanks in underground concrete vault.



PHOTO FIVE-

View southwest of church which was completed in December. To the right of photo is the well house.

>



PHOTO SIX-

View northerly of church and southern portion of property.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

May 18, 1993

SEVENTH DAY ADVENTIST CHURCH
10552 GARVERDALE COURT
SUITE 908
BOISE, ID 83704

FIELD EXAM NOTICE

RE: PERMIT NO. 63-10719

Dear Permit Holder:

An agent from the Department must conduct an examination on the above-referenced permit before your water rights license can be granted. In order to conduct this exam as efficiently as possible, we ask that you contact the water rights examiner listed below before May 25 to schedule a day and time convenient for you.

Please be advised that you will need to operate your system under normal conditions during the examination.

If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made.

Sincerely,

A handwritten signature in cursive script that reads "Rick Collingwood".

Rick Collingwood
Water Rights Examiner



State of Idaho
DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

JULY 24, 1992

SEVENTH DAY ADVENTIST CHURCH
10552 GARVERDALE COURT
BOISE, ID 83704

FIELD EXAM NOTICE

RE: PERMIT NO. 63-10719

Dear Permit Holder:

An agent from the Department must conduct an examination on the above-referenced permit before your water rights license can be granted. In order to conduct this exam as efficiently as possible, we ask that you contact the water rights examiner listed below before AUGUST 3, 1992 to schedule a day and time convenient for you.

Please be advised that you will need to operate your system under normal conditions during the examination.

If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made.

Sincerely,

A handwritten signature in cursive script that reads "Rick Collingwood".

RICK COLLINGWOOD
WATER RIGHTS EXAMINER