

15 14
22 23

35-08172

PLACE
OF USE

Point of
Diversion → ⊗

COUNTY
ROAD →

R31E

T5S

540

2594

MEL
1
80.4

MEL
3
64.4

MEL
4
8.5

22 23
29 28

1624

RECEIVED

APR 11 1994

38.2

35-8172



35-8172

U_{OF}I



35-8172

APR 1 1994

APR 1 1994

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 35-08172

Priority: July 8, 1983

Maximum Diversion Rate: 2.15 CFS

Maximum Diversion Volume: 470.0 AF

This is to certify, that UNIVERSITY OF IDAHO

PO BOX AA

ABERDEEN ID 83210

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated July 8, 1983; and has submitted Proof of Beneficial Use on May 8, 1990. An examination indicates that the works have a diversion capacity of 2.150 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>
IRRIGATION	04/01 to 10/31	2.15 CFS	470.0 AF

LOCATION OF POINT(S) OF DIVERSION:

SENE , Sec. 22, Township 05S, Range 31E
BINGHAM County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
05S	31E	22	SWNE 40	SENE 39		79
		23	SWNW 38.5			38.5

Total number of acres irrigated: 117.5

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 that 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. The use of water under this right shall not give rise to any claim against the holder of a senior water right based upon the theories of forfeiture, abandonment, adverse possession, waiver, equitable estoppel, estoppel by laches or customary preference.
6. The Director retains jurisdiction of the right to incorporate the use into a water district, require streamflow augmentation or other action needed to protect prior surface water and groundwater rights.
7. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 4.0 afa per acre for the lands above.

APR 11 1994

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 35-08172

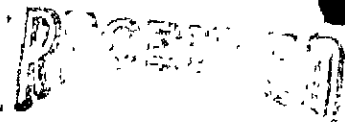
CONDITIONS/REMARKS:

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 12th
day of MARCH, 1994.

Acting for R. Keith Higginson, Director

MICROFILMED

APR 11 1994



STATE OF IDAHO

MAY - 8 1990

DEPARTMENT OF WATER RESOURCES

Department of Water Resources
Eastern District Office

PROOF OF BENEFICIAL USE

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

Permit No. 35-08172 Telephone No. 397-4181Name(s) of Permit Holder(s): University of Idaho RegentsPost Office Address: P.O. Box AA, Aberdeen, Idaho 83210Source of Water: groundwaterIf ground water, well driller's name: Paul Volmer Date drilled: May 1977Extent of Use:
Domestic _____ (No. of households) Irrigation 118 (No. of acres)
Stockwater _____ (No. and type of stock) Other _____Total rate and/or volume for which proof is submitted 2.36 cfs _____ acre/feetShow date water was first diverted and beneficially used under this permit: July 8, 1983

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

Measuring device: Required? ☒ Yes ☐ No Installed? ☒ Yes ☐ No

OR

Flow Measurement Port: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ NoFee Enclosed: \$ 150.00 (See License Examination Fee Schedule)

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

Larry R. Sandvol or Robert Buffi
Name397-4181
Telephone No.University of Idaho, P.O. Box AA, Aberdeen, Idaho 83210

Address

MICROFILMED

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

JUN 19 1990

3-30-90
DateLarry Sandvol
Signature (and title if on behalf of a company or organization)

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 35-08172

Proposed Priority: July 8, 1983

Maximum Diversion Rate:

2.40 CFS

This is to certify, that UNIVERSITY OF IDAHO
P.O. BOX AA
ABERDEEN, ID 83210

has applied for a permit to appropriate water from: GROUNDWATER
and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	04/01 to 11/01	2.40 CFS

LOCATION OF POINT(S) OF DIVERSION: SENE Sec. 22, Township 05S, Range 31E
BINGHAM County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
05S	31E	22	SWNE 40	SENE 40		80
		23	SNNW 40			40

Total number of acres irrigated: 120

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before February 1, 1991.
2. Subject to all prior water rights.
3. The right to the use of water acquired under this permit shall not give rise to any right or claim against the holder of a senior right based upon the theories of forfeiture, abandonment, adverse possession, waiver, equitable estoppel, estoppel by laches or customary preference.
4. The Director retains jurisdiction of the permit and any license subsequently issued to incorporate the use into a water district, require streamflow augmentation or other action needed to protect prior surface water and groundwater rights.
5. Permit holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
6. Prior to the diversion of water under this permit a flow measurement port or other device as specified by the Department shall be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
7. The rate of diversion of water for irrigation under this permit and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

MICROFILMED

Feb 14 1990

Permit To Appropriate Water

NO. 35-08172

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this

8th day of January, 1990

R. Keith Higginson
for R. Keith Higginson, Director

RECORDED

FEB 14 1990

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant University of Idaho Phone 397-4181

Post office address Box AA Aberdeen ID 83210

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

3. Location of point of diversion is SE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 22 Township 5S

Range 31 E B.M. Bingham County, additional points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 2.40 cfs for irrigation purposes from 4-1 to 11-1 (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)

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

5. Total quantity to be appropriated:

a. 2.40 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. _____

Deep-well turbine, 150 HP, sprinkler system

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 20 inches; proposed depth of well is 60 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: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____

Range _____ 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: _____

RECORDED

FEB 14 1990

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

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
5S	31E	22			40	40													80
5S	31E	23							40										40

Total number of acres to be irrigated 120

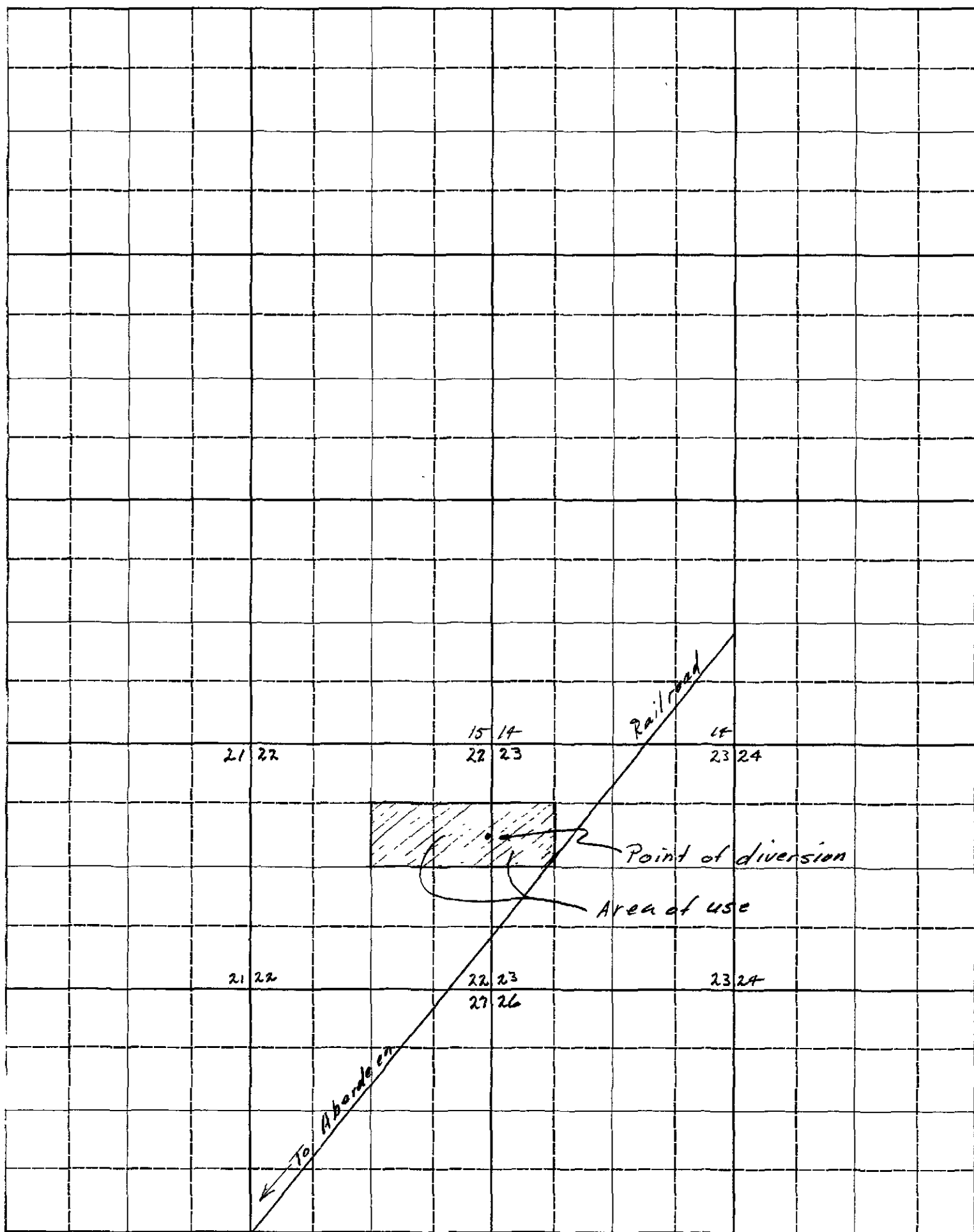
c. Describe any other water rights used for the same purposes as described above.

9. a. Who owns the property at the point of diversion University of Idaho
- b. Who owns the land to be irrigated or place of use University of Idaho
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing

10. Remarks

The application is for development already in place as of APRIL 1977 (month, year). The application is being made to insure that the benefits of subordination per the Swan Falls Agreement are obtained. The applicant intends to claim the priority of MAY 15, 1977 (month, day, year) if a basin wide adjudication occurs at a later date.

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



Scale 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

MICROFILMED

FEB 14 1990

Salmon M. Mader, Sr.
(Applicant)

Received by BP CW Date 7/8/83 Time 2:55
6-27-83 4:30 P.
Preliminary check by S.M. Fee \$ 30⁰⁰
Receipted by BP Date 7/8/83 # 29302
Publication prepared by RB Date 7-24-89
Published in Morning News
Publication dates 8-3-89 11-16-89
Publication approved RB Date 12-6-89
Protests filed by: none

Copies of protests forwarded by _____
Hearing held by _____ Date _____
Recommended for approval denial by HWS

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

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

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

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19 ____.
- c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.
- d. Other:

MicroFILMED

FEB 14 1990



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

March 14, 1994

UNIVERSITY OF IDAHO
PO BOX AA
ABERDEEN ID 83210

RE: WATER RIGHT NO. 35-08172

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 black ink, appearing to read 'Jim Johnson', written over the typed name and title.

JIM JOHNSON
Water Rights Supervisor

JJ:dc

Enclosure

RECEIVED

APR 11 1994

WR0749NP
No. L35-08172

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 03/04/94
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	UNIVERSITY OF IDAHO PO BOX AA ABERDEEN ID 83210 (208) 397-4181	07/08/1983	IRRIGATION	04-01 10-31	2.15 CFS	470.00 AFA
TOTAL DIVERSION:					2.15 CFS	470.00 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: LICENSE

Point(s) of Diversion Capacity: 2.15 CFS

Point(s) of Diversion: T05S R31E S22 SENE BINGHAM County

Place of use Legal Description for: IRRIGATION

NE										NW										SW										SE										
T	R	S	NENE		NWNE		SWNE		SENE		NENW		NWNW		SWNW		SENW		NESW		NWSW		SWSW		SESW		NESE		NWSE		SWSE		SESE		SUM					
---	---	---	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	---							
05S	31E	22	:					40		39	:								:														79.0							
05S	31E	23	:								:					38			:														38.5							
TOTAL ACRES																														117.5										

Pou County: BINGHAM

Other Water Rights with Same Point(s) of Diversion and Source:
35-08172

Other Water Rights Listing Overlapping Place(s) of use:
35-08172

Conditions of Approval:

- 048 - The use of water under this right shall not give rise to any
- claim against the holder of a senior water right based upon the
- theories of forfeiture, abandonment, adverse possession, waiver,
- equitable estoppel, estoppel by laches or customary preference.
- 049 - The Director retains jurisdiction of the right to incorporate
- the use into a water district, require streamflow augmentation
- or other action needed to protect prior surface water and
- groundwater rights.
- R31 - This right when combined with all other rights shall provide no
- more than .02 cfs per acre nor more than 4.0 afa per acre for the
- lands above.

Dates: App. Received: 07/08/1983 Priority Date: 07/08/1983
Proof Due Date: 02/01/1991 Proof Made Date: 05/08/1990
Exam Made Date: 09/25/1990 Exam Sent to S.O.: 01/27/1994
Licensed Date:

Misc: Water District Number: Field Exam Fee: R (Received)

Audit: 03/04/94 CHAPMAN

(WATER RIGHT NUMBERS THAT BEGIN WITH AN '*' ARE ADJUDICATION CLAIMS)

WR-NUMBER	SOURCE	NE				NW				SW				SE				SUM
		Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	
L3508172	T05S R31E S22 GROUNDWATER					40	39											79
A010002320	SNAKE RIVE :	35	40	40	40	30	35	35	38	40	38	38	40	40	40	40	35	604
A010029720	SNAKE RIVE :	35	40	40	40	30	35	35	38	40	38	38	40	40	40	40	35	604
A0102064G0	SNAKE RIVE :	35	40	40	40	30	35	35	38	40	38	38	40	40	40	40	35	604
A0102068G0	SNAKE RIVE :	35	40	40	40	30	35	35	38	40	38	38	40	40	40	40	35	604
A0102068H0	SNAKE RIVE :	35	40	40	40	30	35	35	38	40	38	38	40	40	40	40	35	604
A350254320	GROUNDWATE :	35	40	40	40	30	35	35	38	40	38	38	40	40	40	40	35	604
A350424620	GROUNDWATE :	35	40	40	40	30	35	35	38	40	38	38	40	40	40	40	35	604
L3508172	T05S R31E S23 GROUNDWATER							38										38
A010002321	LARGE CLAI :	38	35	40	21	40	40	40	38	40	40	40	40	40	39	38	38	607
A010029721	LARGE CLAI :	38	35	40	21	40	40	40	38	40	40	40	40	40	39	38	38	607
A0102064G1	LARGE CLAI :	38	35	40	21	40	40	40	38	40	40	40	40	40	39	38	38	607
A0102068G1	LARGE CLAI :	38	35	40	21	40	40	40	38	40	40	40	40	40	39	38	38	607
A0102068H1	LARGE CLAI :	38	35	40	21	40	40	40	38	40	40	40	40	40	39	38	38	607
A350254321	LARGE CLAI :	38	35	40	21	40	40	40	38	40	40	40	40	40	39	38	38	607
A350424621	LARGE CLAI :	38	35	40	21	40	40	40	38	40	40	40	40	40	39	38	38	607

Only overlaps are
Aberdeen Springfield
Irrigation Dist

LICENSE REVIEW CHECKLIST

Permit # 35-8172 Date 3-3-94 Brenda Chapman

NAME Yes No Or Address Change?

PRIORITY DATE Advance? Advanced to:
 Order to Reinstate Needed?
 Incorrect Fee for rate recommended?

SOURCE Changes? Clarification of Originally
 Intended source
 Notice of Intent to Void - Source change.

P/D Amendment Needed?
 Overlap(s)

P/U Amendment Needed?
 Overlap(s)

TOTAL CFS Measurement Theoretical only

ONLY WITH 17 LINES RUNNING = McCrometer @ 9674 gpm @ 2.15 CFS
Sprinklers/30 lines 1/2" NOZZLES

THEORETICAL Q
= 5.48 CFS

Allowable Amount: 117.5 X .02 = 2.35

Capacity of System: 2.15

TOTAL VOLUME Season of Use: 4.0 (4-1 to 10-31)

 Calculations:
 117.5 X 4 = 470

Flow limit: 2.15 x 214 x 1.9835 = 912

USES Change(s) in Nature of Use?
 Amendment Needed?

REMARKS WB3 Multiple P/Ds in 1/4 1/4?
 Special Overlap Albion Springfield

CONDITIONS Measuring/Locking Devices
 W/Master Control - District
R31 Irrigation Overlap
 Water Quality
 Other NON-TRUST

COMMENTS: REDUCE ACRES

RECOMMENDED	CFS	DIV VOL	LICENSE
<u>Irrigation</u>	<u>2.15</u>	<u>470</u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	1ST AMEND LETTER <u> </u>
<u> </u>	<u> </u>	<u> </u>	2ND AMEND LETTER <u> </u>

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JAN 31 1994

Department of Water Resources

A. GENERAL INFORMATION

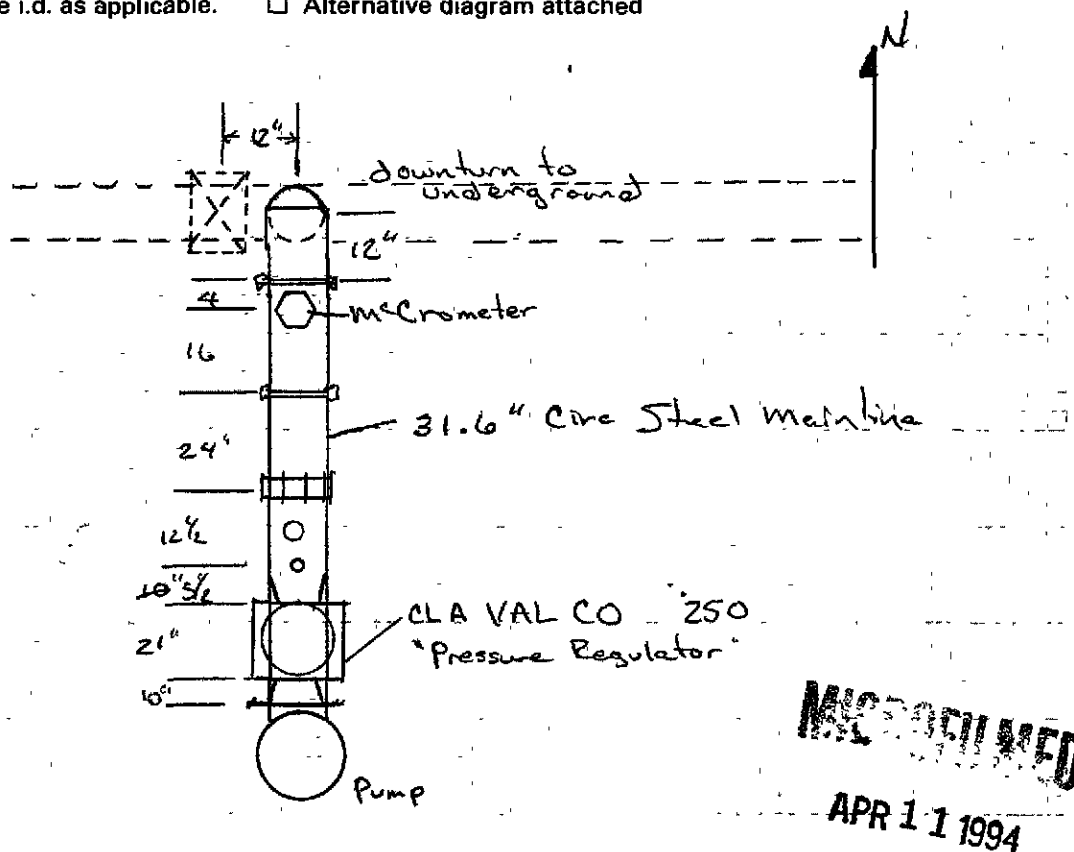
Permit No. 35-8172
1. Owner: University of Idaho Phone No. 397-4181
Current Address: P.O. Box AA Aberdeen, ID 83210
2. Accompanied by: Wendell Countryman EXAM. DATE: _____
Address: Box 519 Aberdeen, ID 83210 Phone No. 397-4181
Relationship to Permit Holder: Employee
3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: none
_____ ☐ Copies Attached
2. Other water rights with same point of diversion: none
_____ ☐ 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" = _____

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.)

Well pump mainline to 30 - $\frac{1}{8}$ th mile lines with $\frac{1}{8}$ " diameter nozzles. Only 17 - $\frac{1}{8}$ th mile lines were running at time of field Exam. Wendell claims all 30 will run at approximately 60 psi.

☐ 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
P/O	General Electric	150	KKJ1002177	Johnston	10"

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

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

Ident. No.	Gov't. Lot	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
P/O			SE	NE	22	5S	31E	Bingham	On site inspection, USGS Quad

6. **Place(s) of Use:**

Indicate Method of Determination ASCS Aerial

Twp.	Rge.	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
5S	31E	22			40	39													79
		23							38.5										38.5
																			117.5

Do not use this space

APR 11 1994

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Pressure gauge		Rainbird			6-11/16 psi	
Water Level Indicator	electric	m-Scope			500'	
Flowmeter station		mCrometer		70 10 534	10"	

2. Measurements:

Operating Pressure $\Rightarrow$ 64 psi
 Static Water Level $\Rightarrow$ 19'2"
 mCrometer $\Rightarrow$ 10,000 gal / 10 min 20.5 sec = 967 gpm = 2.15 cfs

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

1. Measured Method:

mCrometer $\Rightarrow$ 2.15 cfs

2. Alternate Method for Checking Purposes:

Theoretical $\Rightarrow$ 5.54 cfs capacity

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) $\div$ 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.

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (117.5)(4.0) = 470.0 \text{ afa}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (2.15)(214)(1.9835) = 912.6 \text{ afa}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = V_{IR} = 470.0 \text{ afa}$

2. Volume Calculations for Other Uses:

APR 11 1994

H. REMARKS AND OVERLAP REVIEW ANALYSIS

The requested 120 acres was cut to 117.5 acres because of the county road and rail road tracks which run through this property.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	4-1	10-31	2.15 cfs	470. afa
Totals:				

2. Recommended Amendments

- ☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

J. AUTHENTICATION

Field Examiner's Name Scott N King
Signature Scott N King
Certification Date _____
Field Report Preparation Date _____

CONSULTANT SEAL

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

MAILED
APR 11 1994

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

35-8172

Permit No.

Measurement Calculations

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

Theoretical Flow

$$\text{Equation: } Q = \frac{8.8(\text{efficiency})(\text{Horsepower})}{\text{Depth} + (2.31(\text{pressure}))} = [\text{cfs}]$$

efficiency $\Rightarrow$ Maximum 70%

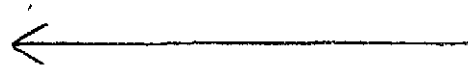
Horsepower $\Rightarrow$ 150

Depth $\Rightarrow$ 19'

Pressure $\Rightarrow$ 64 psi

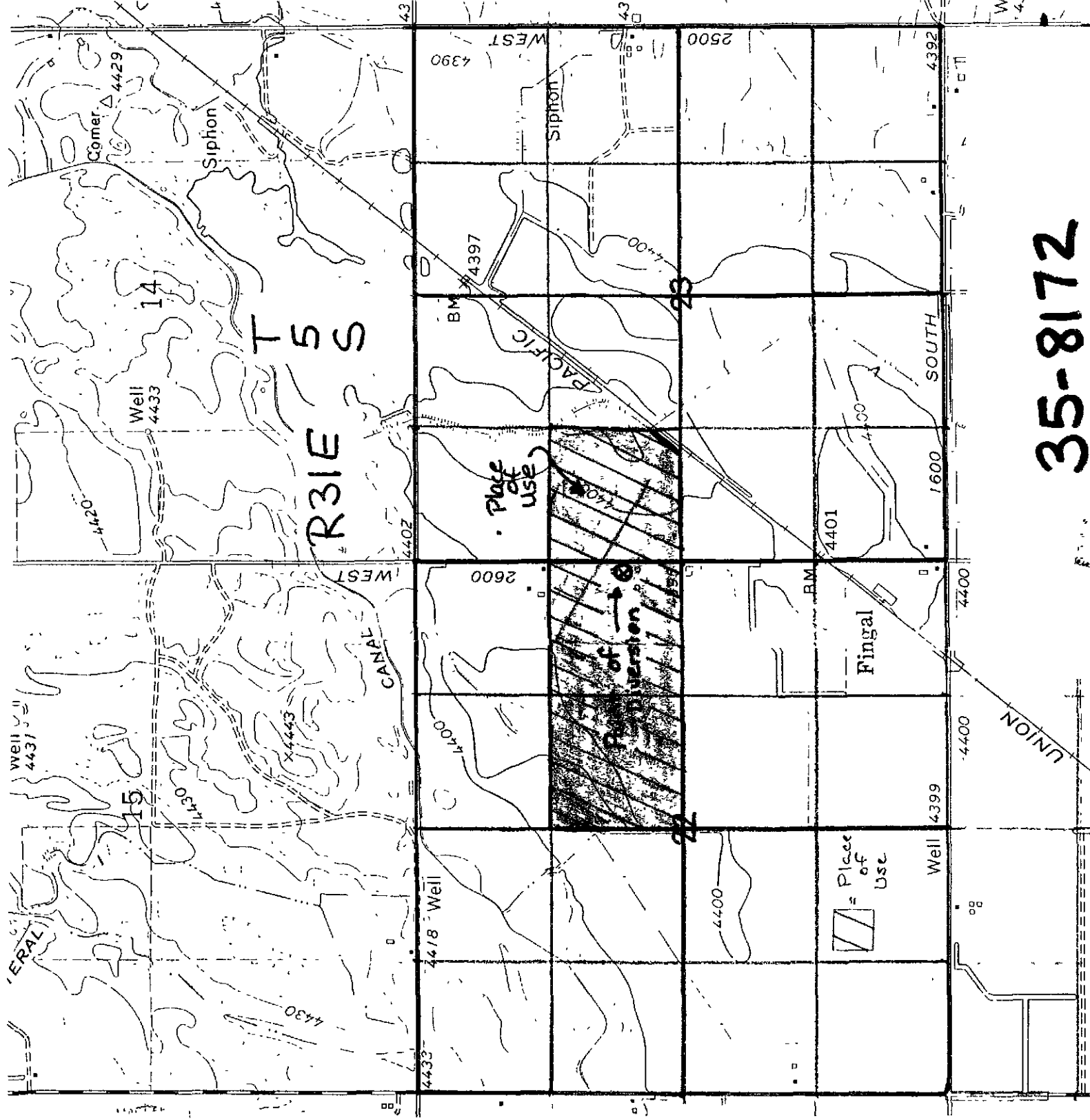
$$Q = \frac{8.8(0.70)(150)}{19 + (2.31(64))} = \frac{924}{166.8}$$

$$= \underline{\underline{5.54 \text{ cfs}}}$$



The measured diversion rate was 2.15 cfs. This is much less than theoretical, probably because only 17 of the 30 ~~wheel~~ lines were on at the time of measurement. The system capacity is most likely more than 2.15 cfs.

APR 11 1994
1994



15 14
22 23

35-08172

9
17.6



2594

COUNTY
ROAD

R31E

HEL
1
80.4

T 5 S

HEL
3
64.4

HEL
2
5.5

22 23
24 25

1004

REC

APR 11 1994

38.2

35-8172

Form 238-I
05/90

95 4"
76 2"
19 2"

Department of Water Resources

WELL INSPECTION FORM

If well is associated with water right, provide WR# 35-8172

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

1. Legal Description: TWP 5S, Rge 3E, Sec. 22, SE 1/4 NE 1/4 or Lot _____.

2. Owner: University of Idaho

Address P.O. Box AA, City Aberdeen, St ID

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

4. Access Port: Yes X No _____ Static Water Level: 19' 2"
Pressure Gauge: Yes X No _____ Casing Diameter: _____
Flowing: Yes _____ No X Temperature: cold

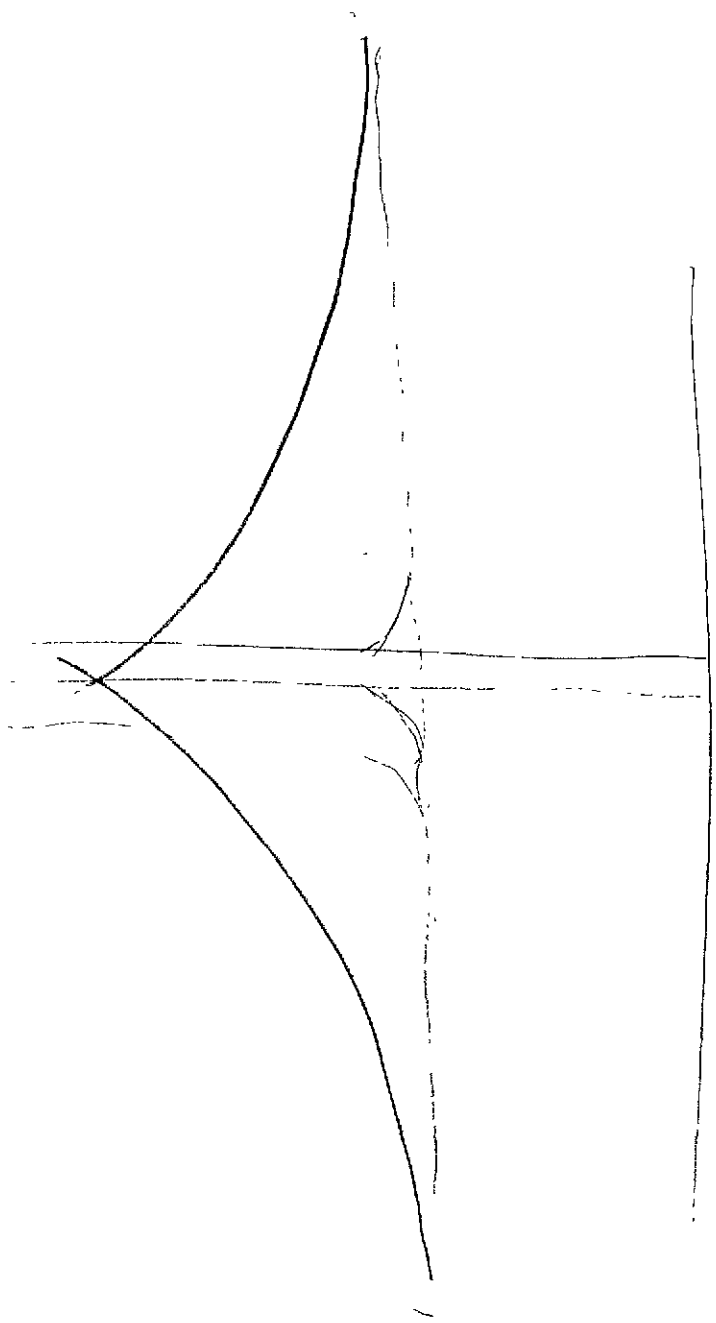
5. Are there any obvious construction problems that may be a source for contamination or waste of water: Yes _____ No X

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

Remarks: _____

APR 11 1994

APR 11 1994



Handwritten notes or scribbles at the bottom left of the page.



35-8172

U_{OF}I



June 4, 1990

UNIVERSITY OF IDAHO
P.O. BOX AA
ABERDEEN, ID 83210

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 35-08172

Dear Permit Holder:

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

If you have questions concerning this matter, please feel free to contact the EASTERN Regional Office in Idaho Falls at (208)525-7161.

Sincerely,

Rita Fleck
Secretary/Records Manager

c: IDWR - Region

MICROFILMED

JUN 19 1990

S T A T E O F I D A H O
D E P A R T M E N T O F W A T E R R E S O U R C E S

Statehouse
Boise, Idaho 83720
(208) 327-7900
January 8, 1990

UNIVERSITY OF IDAHO
P.O. BOX AA
ABERDEEN, ID 83210

P E R M I T A P P R O V A L N O T I C E

RE: PERMIT NO. P35-08172

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. We direct your attention to the conditions of approval on the final page.

You should be aware that the groundwater you propose to divert is located within a drainage basin where surface waters are regulated during the months of low flow. It is possible that diversion of groundwater may have an adverse impact on these surface water flows. Information available to us at this time does not warrant refusing to issue permits in your area, but we do caution that diversions of groundwater are not allowed to deplete flows available for surface water users with earlier priority dates. Siting your well as far from surface sources as possible and casing out upper water producing zones may reduce the potential of interference.

Section 42-235, Idaho Code, requires that a "drilling permit" must be obtained from the department for all wells constructed after July 1, 1987. A drilling permit is a separate permit that must be issued in addition to your permit to appropriate water. Commencement of well construction or diversion of water under your permit to appropriate water is prohibited unless a drilling permit is obtained.

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

MICROFILMED

FEB 14 1990

We have enclosed a form entitled "Instructions for Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit. Also enclosed for your convenience is a form entitled "Proof of Beneficial Use" that must be submitted to the Department when your project is completed. If development is complete, you may submit proof of beneficial use immediately.

Sincerely,

GARY SPACKMAN, Supervisor
Water Right Permits Section

GS: SC
Enclosures

NOT RECORDED

FEB 14 1990

35-08153

CHURCH OF JESUS CHRIST OF
LATTER DAY SAINTS
Thomas Fourth Ward
Rt. 5, Box 354
Blackfoot, Id 83221
Source: GROUNDWATER
Diversión Pt: SESE, Sec. 6, T. 03S, R. 34E.
Use: IRRIGATION (.400 CFS)
Date Filed: 5/25/1983.
In: T03S, R34E, S06, SESE.
26.0 ACRES TOTAL

HENNEBO

Box 263
Pingree, Id. 83262
Source: GROUNDWATER
Diversión Pt. SWNE, Sec. 4, T. 04S, R.
33E
Use: IRRIGATION (.480 CFS).
Date Filed: 6/10/1983
In: T04S, R33E, S04, SWNE, SENW,
NESW, NESE, NWSE.
132.0 ACRES TOTAL.

35-08172

UNIVERSITY OF IDAHO
Box AA
Aberdeen, Id 83210
Source: GROUNDWATER
Diversión Pt: SENE, Sec 22, T. 05S, R
31E.
Use: IRRIGATION (2 400 CFS).
Date Filed: 7/08/1983
In: T05S, R31E, S22, SWNE, SENE, S23,
SWNW.
120.0 ACRES TOTAL.

35-08173

MARTINEAU, Glenn B.
1138 Wilshire Blvd.
Los Angeles, CA 90017
Source: GROUNDWATER
Diversión Pt. NENW, Sec. 9, T. 04S, R
33E
Use: IRRIGATION (4.100 CFS).
STOCKWATER (.090 CFS)
Date Filed: 8/22/1983.
In: T04S, R33E, S09, NENE, NWNE,
NENW, NWNW, SWNW, SENW.
240.0 ACRES TOTAL.

35-08175

NORTH HIGHLANDER FARMS, Inc
1845 Tiffany Drive
Idaho Falls, Idaho 83401
Source: GROUNDWATER
Diversión Pt: NENW, Sec 6, T. 03S, R.
33E.
Use: IRRIGATION (1.000 CFS).
Date Filed: 6/30/1983.
In: T03S, R33E, S06, NENE, NWNE,
NENW, NWNW
50.0 ACRES TOTAL.

35-08612

WILLIAMS, Jennie L.
WILLIAMS, Est. of G L.
Rt 5, Box 17
Blackfoot, Id. 83221
Source: GROUNDWATER
Diversión Pt NESE, Sec 11, T. 02S, R
33E
Use: IRRIGATION (1 400 CFS).
Date Filed: 6/28/1985
In: T02S, R33E, S11, SWNE, NWSE,
SWSE.
70.0 ACRES TOTAL.

The application alleges completion of
development and beneficial use of water
described above prior to October 1, 1984.

The permit(s) will be subject to a prior
water rights. Protests may be submitted bas
ed on the criteria of Sec. 42-203A, Idaho Code
and/or the new public interest criteria of Sec
42-203C, Idaho Code. Protests must be filed
with the Director, Dept of Water Resources,
150 Shoup Ave., Suite 15, Idaho Falls, Idaho,
83402, on or before DECEMBER 4, 1989.

R. KEITH HIGGINSON
Director

(588)

Pub.. 11/16, 23

RECEIVED

DEC 04 1989

Department of Water Resources
Eastern District Office

AFFIDAVIT of PUBLICATION

County of Bingham)

State of Idaho) ss

I, Ted Townsend do

solemnly

swear that I am the Publisher of
The Morning News which is a daily newspaper of
general circulation published each day except Sunday
at Blackfoot, Bingham County, Idaho, said newspaper
having been so published at Blackfoot, aforesaid for
more than one year past; that said newspaper
heretofore complied with all the provisions of Chapter
154 of the Sessions Laws of Idaho of 1933, approved
March 11, 1933, and duly designated, pursuant to law,
a particular day of the week as the day on which legal
notices required by law or by the order of any Court of
competent jurisdiction within the State of
Idaho shall be published to-wit: of each week; that the
notice attached hereto and which is a part of this af-
fidavit and part of the proof of publication was
published in said issue or said

newspaper two consecutive weeks,

the first publication having been made on the

16th day of November, 19 89;and the last publication having been made on the
23rd day of November, 19 89;

that said notice was published in the regular and entire
issue of every number of the paper as aforesaid during
the period and time of publication, and that notice was
published in the newspaper and not in a supplement.

On this 29th day of November, in
the year 19 89 before me a Notary Public of said State,
personally appeared

Ted Townsend
known or identified to me to be the person whose
name is subscribed to the within instrument, and being
by me first duly sworn, declared that the statements
therein are true, and acknowledged to me that he ex-
ecuted the same.

Ray R. Hunter
Notary Public for the State of Idaho,
Residing at Blackfoot, Idaho.
My commission expires
November 10, 1994

Affidavit Processing Fee \$5 00

RECEIVED

FEB 14 1990

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Eastern Region
150 Shoup Ave., Suite 15

Idaho Falls, Idaho 83402
(208) 525-7161

NOVEMBER 7, 1989

THE MORNING NEWS
P.O. BOX 70
BLACKFOOT, ID 83221

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. 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 DECEMBER 4, 1989.

Yours truly,

Rita Bodell
Secretary

Encl.

RECEIVED
FILMED

FEB 14 1990

NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed appropriate the public waters of the State of Idaho:

RECEIVED

FEB 14 1990

35-08172

UNIVERSITY OF IDAHO
BOX AA
ABERDEEN, ID 83210

Source: GROUNDWATER

Diversion Pt: SENE Sec 22 T 05S R 31E

Use: IRRIGATION (2.400 CFS)

Date Filed: 7/08/1983

In: T05S R31E S22	SWNE	SENE
S23	SWNW	

120.0 ACRES TOTAL

RECORDED
FEB 14 1990

The permit(s) will be subject to all prior water rights. Protests may be submitted based on the criteria of Sec. 42-203A, Idaho Code and/or the new public interest criteria of Sec. 42-203C, Idaho Code. Protests must be filed with the Director, Dept. of Water Resources, 150 Shoup Ave., Suite 15, Idaho Falls, Idaho 83402 on or before DECEMBER 4, 1989.

R. Keith Higginson, Director

Published 11/16/1989 & 11/23/1989

NOT RECORDED

FEB 14 1990

23-Oct-1989

The Morning News
P.O. Box 70
Blackfoot, ID 83221

RE: Applications for Permit No.s 35-8106, 35-8109,
35-8111, 35-8113, 35-8116, 35-8117, 35-8118,
35-8121, 35-8122, 35-8133, 35-8136, 35-8142,
35-8144, 35-8153, 35-8156, ~~35-8172~~, 35-8173,
35-8175; Notice of Correction 27-7356 & 35-8731

Gentlemen:

Would you please submit an affidavit of publication
and certified bill in connection with the above
referenced application. The legal notice was to
have been published in your paper on August 3 & 10,
1989.

Your cooperation in this matter is greatly
appreciated.

Sincerely,

Rita Bodell
Office Secretary

Did not mail

RECEIVED

FEB 14 1990

July 26, 1989

University of Idaho
Box AA
Aberdeen, ID 83210

RE: Application for Permit No. 35-8172

Dear Water Right Applicant:

The Department of Water Resources acknowledges receipt of your water right permit. This office is currently in the process of advertising the application in the Morning News. The advertisement will be published for two consecutive weeks, and a period of ten days following the second publication will be allowed for the submittal of protests.

If the application is protested, you will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

If the application is not protested, it will be forwarded to our state office in about five weeks. State office personnel will conduct a complete review prior to final processing of the application and will notify you of the outcome of this review. When a permit is issued, you will be sent a copy. A typical processing time for an unprotested application is about eight weeks.

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

Sincerely,

HAROLD W. JONES
Water Rights Supervisor

HWJ/rb

RECEIVED

FEB 14 1990

S T A T E O f I D A H O
DEPARTMENT OF WATER RESOURCES
Eastern Region
150 Shoup Ave., Suite 15

Idaho Falls, Idaho 83402
(208) 525-7161

JULY 26, 1989

THE MORNING NEWS
P.O. BOX 70
BLACKFOOT, ID 83221

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. 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 AUGUST 21, 1989.

Yours truly,

Rita Bodell
Secretary

Encl.

MAILED

FEB 14 1990

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

MICROFILMED

FEB 14 1990

Diversion Pt: SENE Sec 22 T 05S R 31E

Date Filed: 7/08/1983

In: T05S R31E S22 SWNE SENE
S23 SWNW

120.0 ACRES TOTAL

MICHAEL

FEB 14 1944

The permit(s) will be subject to all prior water
may be submitted based on the criteria of Sec. 42-203A, Idaho Code and/or
the new public interest criteria of Sec. 42-203C, Idaho Code. Protests
must be filed with the Director, Dept. of Water Resources, 150 Shoup
Ave., Suite 15, Idaho Falls, Idaho 83402 on or before AUGUST 21, 1989.

R. Keith Higginson, Director

Published 8/03/1989 & 8/10/1989

REPROFILMED

14 1990

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 Bob Knudson

Address Aberdeen, Ida 83210

Owner's Permit No. _____

7. WATER LEVEL

Static water level 26 feet below land surface

Flowing? ☐ Yes ☒ No G.P.M. flow _____

Temperature _____ ° F. Quality _____

Artesian closed-in pressure _____ 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

9. LITHOLOGIC LOG

Hole Diam	Depth		Material	Wet Yes
	From	To		
20"	0	6	Top soil & Sand	
20"	6	27	Clay	
	27	32	Solid Gray Lava	
	32	42	Dark Broden Lava	
	42	49	Black Sand	
	49	60	Solid Dark Lava	

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 20 inches Total depth 60 feet

Casing schedule ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>.250</u> inches	<u>20</u> inches	<u>1</u> feet	<u>27</u> feet

Was a packer or seal used? ☐ Yes ☒ No

Perforated? ☐ Yes ☒ No

How perforated? NO ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

Number	From	To

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 27 Material used in seal ☐ Cement grout ☐ Pudding clay ☒ Well cuttings

Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth

RECEIVED

JUN 25 1985

Department of Water Resources

Eastern District Office

RECEIVED

JUN 1985

Department of Water Resources

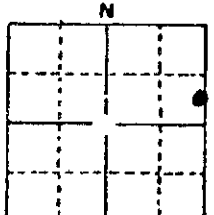
Eastern District Office

MICROFILMED

FEB 14 1990

6. LOCATION OF WELL USGS 55-31E-12 ad1

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County Bingham

SE 1/4 NE 1/4 Sec. 22, T. 5 N, R. 31 E

10. Work started 9 April 1972 finished 14 April 1972

11. DRILLERS CERTIFICATION

Firm Name Hallmer & Sons Firm No. 62

Address Box 8 Aberdeen, Ida 83279 Date _____

Signed by (Firm Official) _____

and _____

(Operator)