

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

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A63-08934
Date Received: 3/02/1990
Receipt No: 0015702
Received By: CA

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: J. HOWARD KENT 208-375-9797
Address: 5206 SUNDERLAND DR.
BOISE, ID 83704
OR
Name: HARRIET L. KENT 208-375-9797
Address: 5206 SUNDERLAND DR.
BOISE, ID 83704
OR
Name: KENT RANCH CO. 208-375-9797
Address: 5206 SUNDERLAND DR.
BOISE, ID 83704

2. Date of Priority: JUN 01, 1977

3. Source: UNNAMED DRAIN Trib. to: BOISE RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
04N	03W	8	SE	SE			CANYON

5. Description of diverting works:
PUMP, SPRINKLERS

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
COMMERCIAL	04/01	11/15	1.000		

7. Total Quantity Appropriated is:
1.000 C.F.S. (and/or) A.F.A.

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
COMMERCIAL, DUST CONTROL.

A63-08934

Page 1

Date: 03/19/90

MICROFILMED
AUG 24 1992

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	03W	8	SE	SE		COMMER	
		9	SW	SW		COMMER	

11. Place of use in counties: CANYON

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:

15. Basis of Claim: LICENSE

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: -1-

For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant(s): Harriet L Kent Date: 3-19-90

Date: _____

For Organizations:

I do solemnly swear or affirm that I am _____ of

Title
_____, that I have signed the foregoing
Organization
document in the space below as _____ of

Title
_____ and that the statements contained in the
Organization
foregoing document are true and correct.

Signature of Authorized Agent

Title and Organization

Date

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 19th day
of March 19 90

Carter Fritchle
Notary Public

Seal

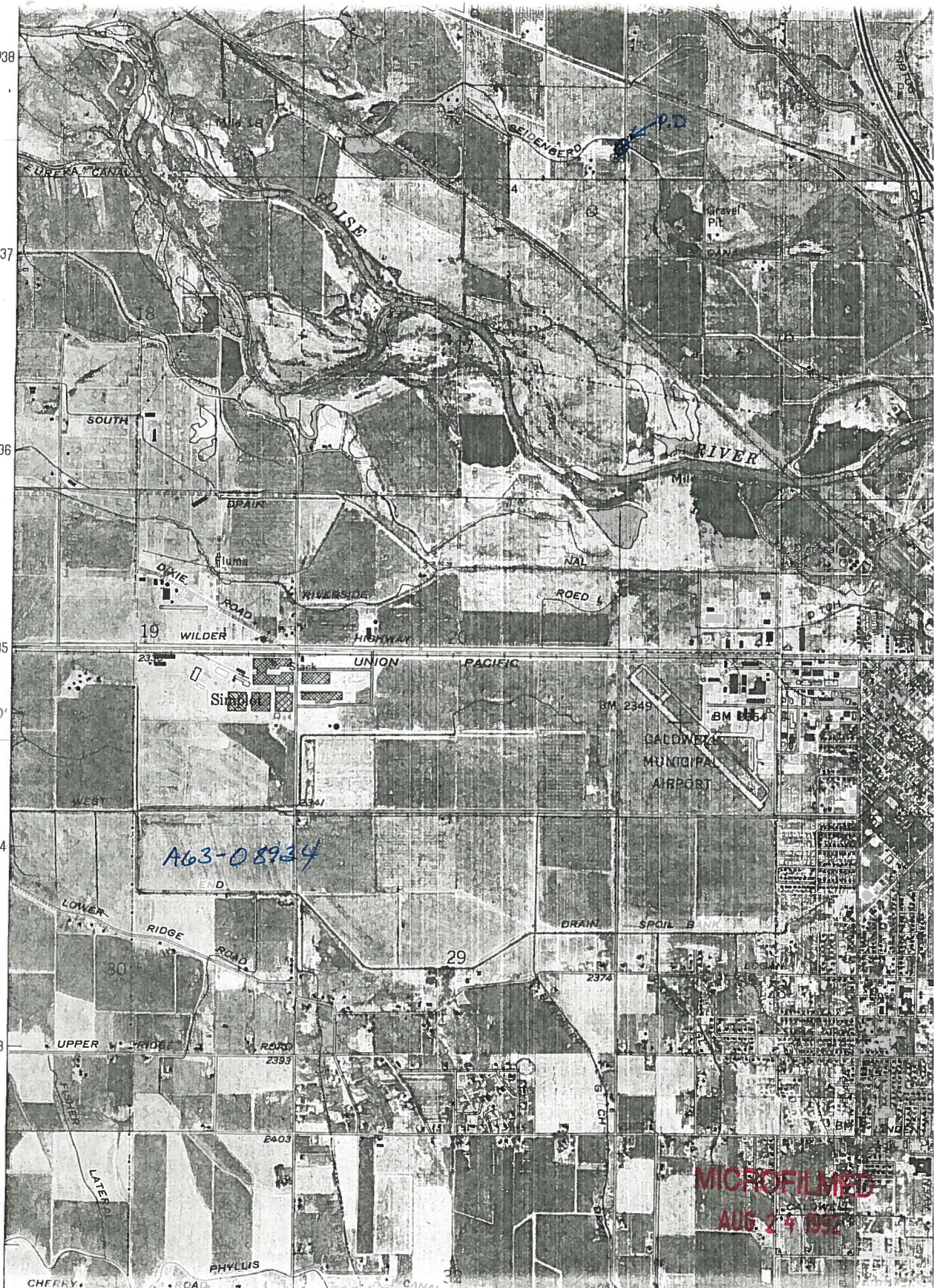
Residing at _____

My Commission Expires _____

Carter Fritchle, Notary Public
Residing at Eagle, Idaho
My Commission Expires March 21, 1994

T4W
R3W

4838
4837
4836
4835
40'
4834
4833
4832



IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION WATER RIGHTS ACQUIRED UNDER STATE LAW

Commercial use is for dust control in a cattle feed lot.

05/09/2006

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-8934

NAME AND ADDRESS: KENT RANCH CO
5206 SUNDERLAND DR
BOISE ID 83704

HARRIET L KENT
5206 SUNDERLAND DR
BOISE ID 83704

J HOWARD KENT
5206 SUNDERLAND DR
BOISE ID 83704

SOURCE: UNNAMED DRAIN

TRIBUTARY: BOISE RIVER

QUANTITY: 1.000 CFS

PRIORITY DATE: 06/01/1977

POINT OF DIVERSION:

T04N R03W S8 SESE Within CANYON County

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE

PERIOD OF USE

QUANTITY

COMMERCIAL

04/01 11/15

1.000 CFS

PLACE OF USE: COMMERCIAL Within CANYON County

T04N R03W S08 SESE

T04N R03W S09 SWSW

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - License

Commercial use is for dust control in a cattle feed lot.

Idaho Department of Water Resources

**T04N, R03W,
SEC 8 & 9**

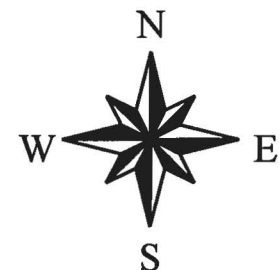
Claim No: 63-8934

Prepared By: Kimberly Brown

Date: May 8, 2006



-  Place of Use
-  Section Lines
-  1/4 1/4
-  Point of Diversion



0 0.09 Miles

1987 NAPP

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 63-8934

WATER RIGHT NUMBER: 63-8934 ✓

Owner Type Name and Address

Current Owner KENT RANCH CO
5206 SUNDERLAND DR
BOISE, ID 83704
(208)375-9797

Current Owner HARRIET L KENT
5206 SUNDERLAND DR
BOISE, ID 83704
(208)375-9797

Current Owner J HOWARD KENT ✓
5206 SUNDERLAND DR
BOISE, ID 83704
(208)375-9797

Priority Date: 06/01/1977 ✓

Basis: License ✓

Status: Active

Source

UNNAMED DRAIN ✓

Tributary

BOISE RIVER

Beneficial Use

COMMERCIAL

(DUST CONTROL)

From To

4/01 to 11/15 ✓

Diversion Rate

1.000 CFS ✓

Total Diversion:

1.000 CFS ✓

Annual Volume

H/A

22122 Kent Rd
KLocation of Point(s) of Diversion

UNNAMED DRAIN

SE1/4SE1/4 ✓

Sec. 8, Twp 04N, Rge 03W, B.M. ✓

CANYON County

Place of Use

COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				✓	
✓	04N	03W	8	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
																				X
✓	04N	03W	9											✓						
														X						

Conditions of Approval:

ADD - Commercial Use is for dust control
in a cattle feed lot.

Remarks:

Purpose of Use Acc. Trans.?

Parcel No: a portion of R3460800000 & R3465300000

CONVERSATION MEMORANDUM

**RE: Snake River Basin Adjudication Water Right Nos. A63-8934
Notice of Error Reply**

October 12, 2006

Sharon Needham, the daughter of Harriet and Howard Kent, called on behalf of her parents after they received the Notice of Error/Preliminary Recommendation packet of information in the mail. Mrs. Needham began the conversation by stating that her mother is 88 years old, that her father is 93 years old, and that they were very confused and upset by the information we sent. In addition, Mrs. Needham was also quite confused because she initially thought that this water right pertained to another piece of property and it took quite a while for her to understand that this water right was for dust control in a feed lot. After that was established, I mentioned that 2005 Canyon County tax lot data lists J. H. Davis as the current owner and, as a result, her parents (essentially) should not have received the Preliminary Recommendation. Mrs. Needham then informed me that J. H. Davis has passed away and that Ty Lyon, his grandson is the current owner of the feed lot and the business is based in southern California. She also mentioned that the ownership is under the J. H. Davis Trust, c/o Ty Lyon.

I explained that it is the responsibility of the new owner (in this case, Mr. Davis) to file a Change of Ownership form with our department and that the Davis family has failed to do so. Mrs. Needham was relieved to find that they had done nothing wrong. I asked that she inform her parents that this information should have been sent to the Davis Trust/family and the same scenario applies to any future information they receive from our department regarding this right.

Kimberly Brown
Senior Water Resource Agent
Western Region

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report 63-8934

WATER RIGHT NUMBER: 63-8934

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	J HOWARD KENT 5206 SUNDERLAND DR BOISE, ID 83704 (208)375-9797

Priority Date: 06/01/1977

Basis: License

Status: Active

<u>Source</u>	<u>Tributary</u>
UNNAMED DRAIN	BOISE RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
COMMERCIAL	4/01 to 11/15	1.000 CFS	
	<u>Total Diversion:</u>	1.000 CFS	

Location of Point(s) of Diversion

UNNAMED DRAIN	SE1/4SE1/4	Sec. 8, Twp 04N, Rge 03W, B.M.
CANYON County		

Place of Use

COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	03W	8																	X
04N	03W	9											X						

Conditions of Approval:Remarks:Comments:

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM POU REVIEW REPORT
ADJUDICATION CLAIM NUMBER: 63-8934

03/21/2006

1

Right #	Type	Twp	Rge	Sec	QQ	Q	Lot	Purpose of Use	Acres/Total	Name
138D	Claim	04N	03W	8	SE	SE		IRRIGATION	13/764	SIEBENBERG COOPERATIVE DITCH C LTD
138E	Claim	04N	03W	8	SE	SE		IRRIGATION	27/964	CANYON DITCH CO
-252	Claim	04N	03W	8	SE	SE		IRRIGATION	27/964	CANYON DITCH CO
-369	Claim	04N	03W	8	SE	SE		IRRIGATION	27/964	CANYON DITCH CO
8934	Claim	04N	03W	8	SE	SE		COMMERCIAL		KENT RANCH CO
8934	Water Right	04N	03W	8	SE	SE		COMMERCIAL		J HOWARD KENT
21366	Water Right	04N	03W	8	SE	SE		DOMESTIC		HARRIET L KENT
138E	Claim	04N	03W	9	SW	SW		IRRIGATION	40/964	CANYON DITCH CO
-252	Claim	04N	03W	9	SW	SW		IRRIGATION	40/964	CANYON DITCH CO
-369	Claim	04N	03W	9	SW	SW		IRRIGATION	40/964	CANYON DITCH CO
8934	Claim	04N	03W	9	SW	SW		COMMERCIAL		KENT RANCH CO
8934	Water Right	04N	03W	9	SW	SW		COMMERCIAL		J HOWARD KENT

- no overlap

Receipt Details for ID C015702

Status	Adjustment Type	Version
	Adjusted Receipt	1

General Information:

Date Received	Date Deposited	Region	Total Amount	Payment Type
3/19/1990 10:09:26 AM	3/19/1990	State	\$175.00	Check
Payer	KENT RANCH CO.			

Account Information:

Check #	Account #	Credit Card Name	Authorization #
4764			
Card Expiration Date	Credit Card Transaction #		

Comment ADJUDICATION FEE

Fee Detail:

Amount	Description	PCA	Fund	Fund Detail	Subsidiary	Object
\$175.00	ADJUDICATION FEE	410162	9337	0	0	6490

Refund(s):

Amount	Payee	Date	Document Number
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Water Right Information:

Basin Number	Sequence Number	Split Suffix	Amount	Type
63	21366		\$25.00	Claim
63	8934		\$150.00	Claim

✓ Correct Amount

Print Report

WATER RIGHT LICENSE

THIS IS TO CERTIFY, that J. Howard Kent
of Caldwell, Idaho, has complied with the terms and conditions of Permit
No. 63-8934 issued pursuant to Application for Permit dated June 1, 1977,
and has submitted proof to the Department of Water Resources on March 29, 1978,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 1.03 cfs of water from an unnamed drain,
tributary to Boise River, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use Period of Use Rate of Diversion Annual Volume

Dust Control from April 1 to November 15 at 1.0 cfs and N/A

from _____ cfs and _____

from _____ at _____ cfs and _____

(both dates inclusive)

Subject, however, to the condition that no more than 1.0 cfs of water be diverted any one time, and that the amount of water so diverted and to which such right is entitled and confined is for the purpose aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed N/A acre feet per year, said waters to be diverted within the SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 8, Twp. 4N, Rge. 3W, B.M., in the County of Canyon

Description and location of place of use:

[illegible]

Total number of acres irrigated _____

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 29 day of June 19 79

Deputy Director

Identification No. _____

Application No. 63-8934

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT **APPROVED**

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

1. Name of applicant J. Howard Kent Phone: 459-9669
post office address Route 5 Box 106 Caldwell, Idaho 83605
2. Source of water supply unnamed drain which is a tributary of Boise River
3. a. Location of point of diversion is S. E. $\frac{1}{4}$ of S. E. $\frac{1}{4}$ of Section 8 Township 4 No.
Range 3 W B.M. Boise Meridian Canyon County; additional points of diversion if any: None
- b. If water is not consumed, it will be discharged into unnamed drain at a point in S. E. $\frac{1}{4}$ of S. E. $\frac{1}{4}$ of Section 8 Township 4 No. Range 3 W B.M. Boise Meridian Canyon
4. Water will be used for the following purposes:
Amount 1 c.f.s. dust control from April 1 to Nov. 15 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. one cubic feet per second and/or
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. pump from drain

b. Height of storage dam _____ feet, active reservoir capacity _____ acre feet; total reservoir capacity _____ acre feet, materials used in storage dam: _____
Period of year during which storage will occur _____ to _____ inclusive.
(Mo. Day) (Mo. Day)
c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use is one years.
b. Estimated construction cost is \$ 8,000.00.
8. Description of proposed uses:
a. If water is **not** for irrigation:
(1) Give the place of use of water: S. E. $\frac{1}{4}$ of S. E. $\frac{1}{4}$ of Section 8 Township 4 No.
Range 3 W B.M. Also SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 9 T 4N. R 3W.
(2) Amount of power to be generated: _____ hp under _____ feet of head.
(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be supplied with domestic water _____.
(5) If water is to be used for other purposes describe: water to be pumped thru sprinkler system to control dust in cattle feedlot

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

TWP.	RANGE	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	

Total number of acres to be irrigated _____

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 The applicant - J. Howard Kent

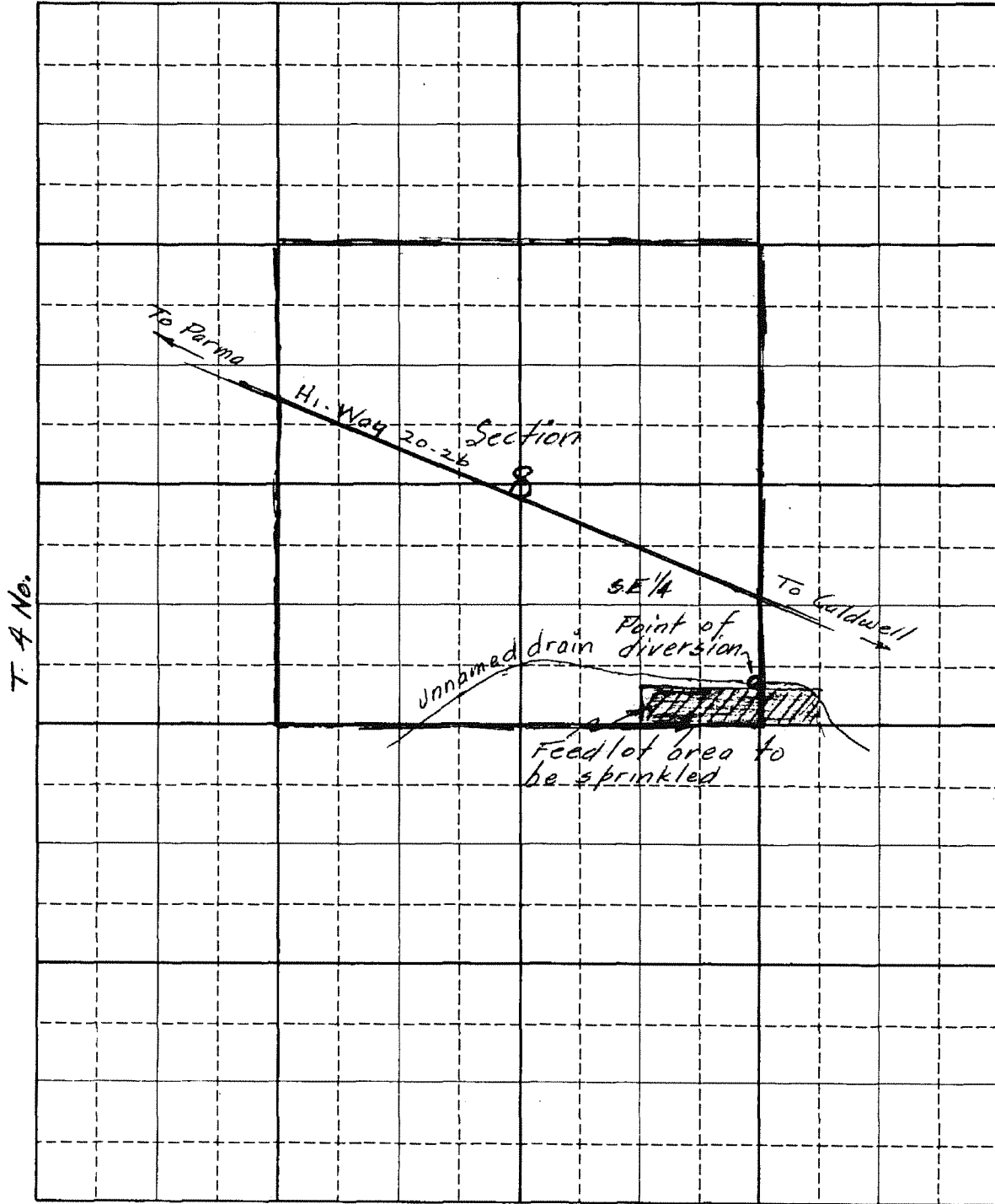
b. Who owns the land to be irrigated or place of use J. Howard Kent

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 water which flows thru the unnamed drain from which we propose to make this diversion first rises to the surface immediately south of Hi-Way 20-26 where that road leaves interstate 80N just west of Caldwell. The drain begins in this swampy area and runs west, goes thru the Caldwell fishing ponds and then enters our property. As it leaves our land it runs into another unnamed drain and soon enters the Boise River. Its total length is about 2 miles. Depending upon how much irrigation run-off water enters the drain above us, the flow in the drain during the summer months varies from probably two to three cfs to sometimes as much as 5 or 6 cfs. There will be no run-off from our dust control - sprinkling system as the water will be applied in light, frequent applications.

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

R 3 West



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.

(Applicant)

Proposed Priority 6/ 1/77

Received by LA Date 6/1/77 Time 8:30

Preliminary check by Wm Fee \$ 25.00 #8050

Receipted by CS Date June 3, 1977

Publication prepared by CS Date June 14, 1977

Published in Newspaper Tribune

Publication dates June 16, 1977 + June 23, 1977

Publication approved ry Date 6-28-77

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by WJS

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

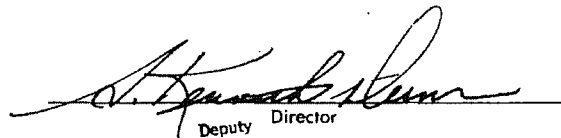
This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 63-8934, and said application is hereby APPROVED.

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 September 1, 19 78.
- c. Other: _____

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

Witness my hand this 22 day of August, 19 77.


Deputy Director

JM

8/21/76

FEEDLOT SPRINKLER
SYSTEM

KENT RANCH

DR. JAMES
MILLIGAN
U. of I. College
of Eng.

Use 65-series Rainbird Sprinklers

9/32" ϕ Nozzles - @ 70 psi $\Rightarrow$ 19.5 gpm

70-ft radius Half-circle area

$$A = \frac{(70)^2 \pi}{2} = 7697 \text{ ft}^2$$

$$= 855 \text{ yd}^2$$

Apply 428 gal/day (0.5 gpd/yd²)

$$\frac{428 \text{ gpd}}{(0.7)(19.5 \text{ gpm})} = \underline{31.3 \text{ min/day}}$$

Line 1

11 spr. @ 19.5 gpm = 214.5 gpm

2 spr @ 33.2 gpm = 66.4 gpm

2 spr @ 11.8 gpm = 23.6 gpm

304.5 gpm

Note:

33.2 gpm = 3/8" ϕ Noz.11.8 gpm = 7/32" ϕ Noz.19.5 gpm = 9/32" ϕ Noz.1185' - 5" ϕ PVC $H_f = 18.1 \text{ ft}$ 190' - 4" ϕ PVC136' - 3" ϕ PVC1140' - 2 1/2" ϕ PVC

$$H = 18.1 + 10 + 5 + 162 = 195 \text{ ft}$$

$$HP = \frac{305(195)}{3960} = \frac{15.0}{0.65} = 23.1 \text{ BHP}$$

Line 2

18 spr @ 19.5 gpm = 351 gpm

435' - 5" ϕ PVC535' - 5" ϕ

$$h_f = 10.1$$

145' - 3" ϕ PVC1200' - 2 1/2" ϕ PVC200' - 2" ϕ PVC

$$H = 10.1 + 15 + 162$$

$$= 187'$$

$$HP = \frac{187(351)}{3960} = \frac{16.6}{0.7} = 23.7 \text{ BHP}$$

Note: Some adjustment in pipe
lengths may be necessary during installation.

Use BERKELEY MODEL B-3-ZPL w/ 7 1/2-inch impeller

Motor Drive @ 3600 nominal rpm

25 h.p.

— can be changed to 20 h.p. by

OR EQUIVALENT changing impeller size downward
one size increment.

Operate each line approx. 30 minutes each day during
dusty season. Peak dust loads occur at about 7 pm,
6-7 am and 1-2 pm.

DEPARTMENT OF WATER RESOURCES
FIELD REPORT

1. Name of permit holder J. Howard Kent
Post office address Rt. 5, Box 5009, Caldwell, ID Phone 454-9669
Person to contact _____ Phone _____

2. Source of water supply: Groundwater ☐ Surface water ☒ un. drain
(name spring, stream, etc.)
Tributary to Boise Riv.

3. Water will be used for the following purposes:

Amount 1.0 c.f.s. for dust control (cattle feed lot)
AF/Annum (nature of use) Highway 20-26

Period of Use: from 4/01 to 11/15
(mo.-day) inclusive (mo.-day)

Amount _____ c.f.s. for _____
AF/Annum (nature of use)

Period of Use: from _____ to _____
(mo.-day) inclusive (mo.-day)

Amount _____ c.f.s. for _____
AF/Annum (nature of use)

Period of Use: from _____ to _____
(mo.-day) inclusive (mo.-day)

Other uses: _____

RECEIVED

Department of Water Resources
Western Regional Office

Examined by bly
Permit No. 63-8934

4. Total amount to be appropriated:

Max Rate of Diversion 1.0 cubic feet per second and annual volume _____ AF/Annum.

5. Location of Point(s) of Diversion:

Township 47N N/S, Range 3W E/W, B.M., Section 8, Subdivision Se $\frac{1}{4}$ Se $\frac{1}{4}$ Canyon
County _____
Township _____ N/S, Range _____ E/W, B.M., Section _____, Subdivision $\frac{1}{4}$ $\frac{1}{4}$ _____
County _____
Township _____ N/S, Range _____ E/W, B.M., Section _____, Subdivision $\frac{1}{4}$ $\frac{1}{4}$ _____
County _____

Other Points of Diversions: _____

Description of diverting works: drain lies adjacent to feed lot. Take water from drain. w/ small low lift pump, also serves as pressure pump. small tractor power pump.

Measuring device required: yes ☐ no ☒

6. Lands to be irrigated or place of use:

TWP.	RANGE	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 $\frac{1}{4}$	
47N	3W	8																X	
47N	3W	9										X							

MICROFILMED

TOTAL ACREAGE _____

DATE OF EXAM 5/10/79

ACREAGE
Found _____
Recommended _____

Irrigation Requirement _____ Ac Ft/Ac

USE
Irrigation Q=_____ c.f.s. V=_____ AF/Ann. from _____ to _____
Domestic Q=_____ c.f.s. V=_____ AF/Ann. from _____ to _____
Livestock Q=_____ c.f.s. V=_____ AF/Ann. from _____ to _____
DUST CONTROL Q=1.0 cfs V=9.5 AF/Ann From 4/1 to 11/15

Is water co-mingled? yes _____ no ☒

Name source: UNNAMED DRAIN
TRIA. TO 20132 KIVUIN
twp. 4N N/S, Rge W E/W, B.M., Sec. 8 Sub. SE 1/4 SE 1/4 CANYON
County

Exchange? yes _____ no ☒

Name source exchanged with: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____ Sub. _____ 1/4 _____ 1/4 _____
County

Point of injection:
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____ Sub. _____ 1/4 _____ 1/4 _____
County

Point of exchange:
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____ Sub. _____ 1/4 _____ 1/4 _____
County

Total Q measured 1.03 cfs Method of measurement CALCULATION

Total Q recommended 1.0 cfs Meter No. _____ Type _____ Condition _____

Total V recommended 9.5 AF/Ann

Recommended Amendments:

P.D. _____
Place of Use _____
Other _____
None ☒

MEASUREMENT CALCULATION:

- FROM DR. J. MILLMAN, ENG. REPORT: $Q = 3519 \text{ gpm} + 309.5 \text{ gpm} = 1.46 \text{ cfs}$ CAPACITY OF
SPRINKLER SYSTEM
- TRACTOR POWERED PUMP ESTIMATED 15hp: $Q = 15 \text{ hp} (.8 \text{ EFFICIENCY}) / (8.8) = 1.03 \text{ cfs}$
- $229 \text{ gpm} = 114.5 \text{ km} \text{ sprinkler} \text{ @ } 230 \text{ mm/dy. } 40 \text{ psi } 1.4333 + 10' \text{ LIFT}$
- $V = (449.0 \text{ gpm}) (60 \text{ mm/hr}) (114.5 \text{ km}) = 3084630 \text{ gal } 1 \text{ AF} = 325830 \text{ gal } \therefore 9.47 \text{ AF/Ann}$

SYSTEM DESCRIPTION:

1.5 hp BERKELEY PUMP - SERIAL NO. 7832937 TO KEEP PRESSURE IN LINE.
SMALL TRACTOR POWERS CENTRIFUGAL PUMP - H698 GPM ESTIMATED AT
15hp, 3" LINE RESTRICTION.

REMARKS:

INCLUDED IS FEEDLOT SPRINKLER SYSTEM SKETCH DESIGNED BY DR.
JAMES MILLMAN, U. OF I. COLLEGE OF ENG.

Examiner's Signature Charles W. Boyer Jr. Date 5/14/79

Checked by William Scott Date 1 June 79

Approved by _____ Date _____

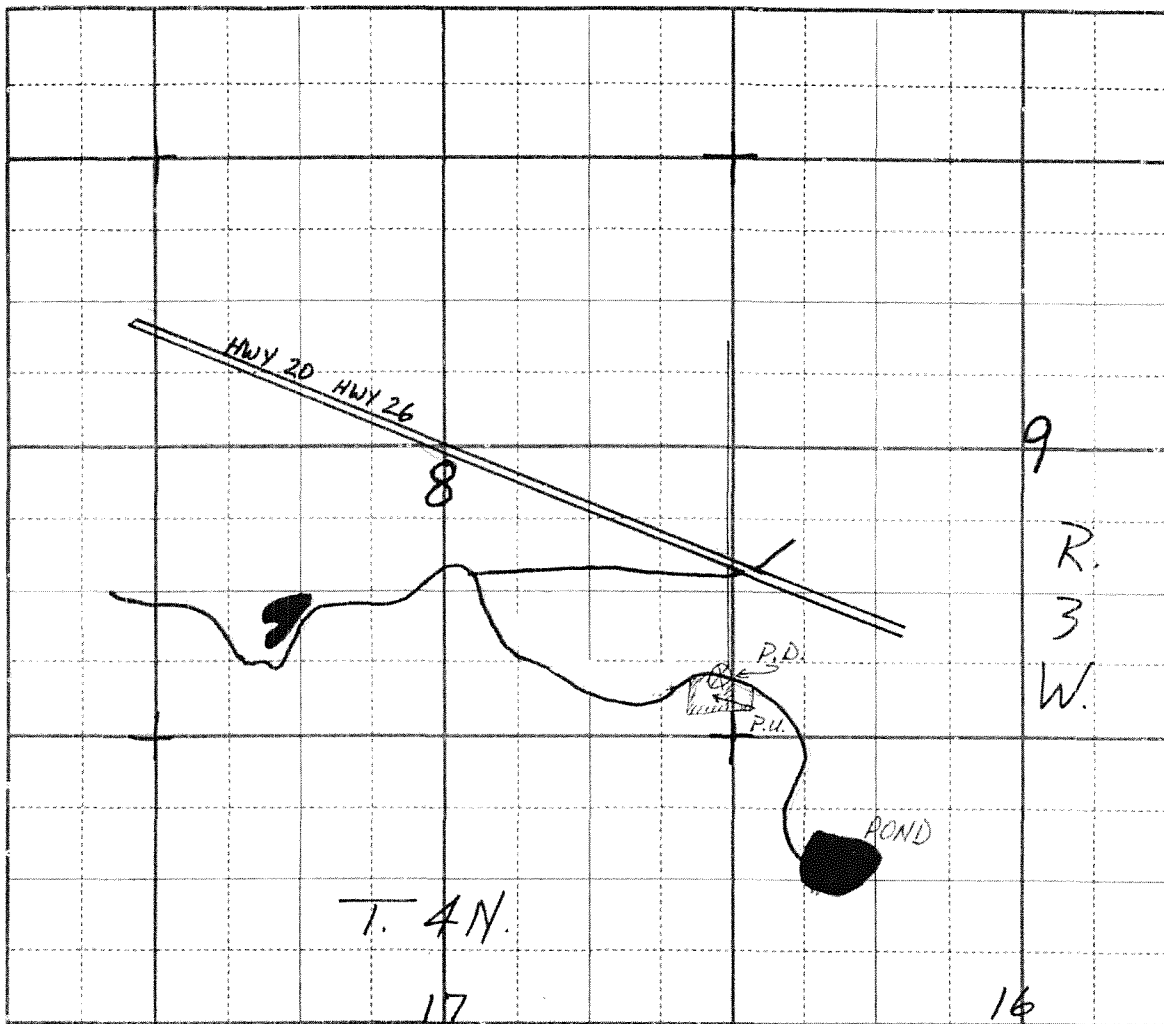


Diagram of System