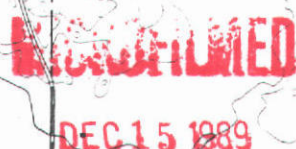


place of use, section



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.

John Beubers
(Applicant)

AFFIDAVIT of PUBLICATION

RECEIVED

NOV 10 1988

State of Idaho,)
) SS.
County of Gooding)

Department of Water Resources
Southern Region Office

David Lomberg, being first duly sworn, deposes and says that he is the printer (publisher) of the Gooding County Leader, a newspaper published every week in Gooding, County of Gooding, State of Idaho, that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 2nd day of Nov 19 88, and the date of the last publication was on the 9 day of Nov 19 88.

Subscribed and sworn to before me this 9th day of Nov, 19 88.
(SEAL)

Laurene M. Ferme
NOTARY PUBLIC

GOODING COUNTY LEADER
Gooding, Idaho

COST OF PUBLICATION

Number of Lines in Notice 29
Number of Insertions 2

Lines tabular at 29 5°/Pica
Lines straight at 15.08 4°/Pica
Subsequent lines at 13.19 3°/Pica
TOTAL COST 28.27

COPY OF NOTICE
(Paste Here)

Appeal for water
TITLE OF NOTICE

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

Dept of Water
BILL TO

NOTICE OF APPLICATION FOR WATER RIGHT

The Following application has been filed to appropriate the public waters of the State of Idaho:

36-08382

BEULERS, JOHN, 3257 S. 2400 E.,
JEROME, ID 83338

Source: GROUNDWATER

Diversion Pt: NESE Sec 18 T 08S R 16E;
Gooding County; 6 miles East

SESE Sec 18 T 08S R 16E of

Jerome.

Use: STOCKWATER (.560 CFS)

COMMERCIAL (1.000 CFS)

DOMESTIC (.040 CFS)

Date Filed: 8/16/1988

In: T08S R16E S18 - NESE - SESE

The permit 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, 2148 4th Avenue East, Twin Falls, Idaho 83301 on or before NOVEMBER 21, 1988.

R. Keith Higginson, Director
Publish: November 2 and 9 G3031

PUBLICATION RATES

(Idaho Code, Rev. Statutes 1984)

7-8 pt. per line straight 4°/Pica

7-8 pt. per line tabular 5°/Pica

7-8 pt. per line successive

insertions 3°/Pica

MICROFILMED

DEC 15 1988 No 1315

3031

[illegible]

NIAGARA SPRINGS QUADRANGLE
IDAHO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Topo BB21

7.5 MINUTE SERIES (TOPOGRAPHIC)

Topo BB22

40'

MOUNTAIN HOME 64 MI.
3.3 MI. TO IDAHO 46 (WENDELL EXIT)

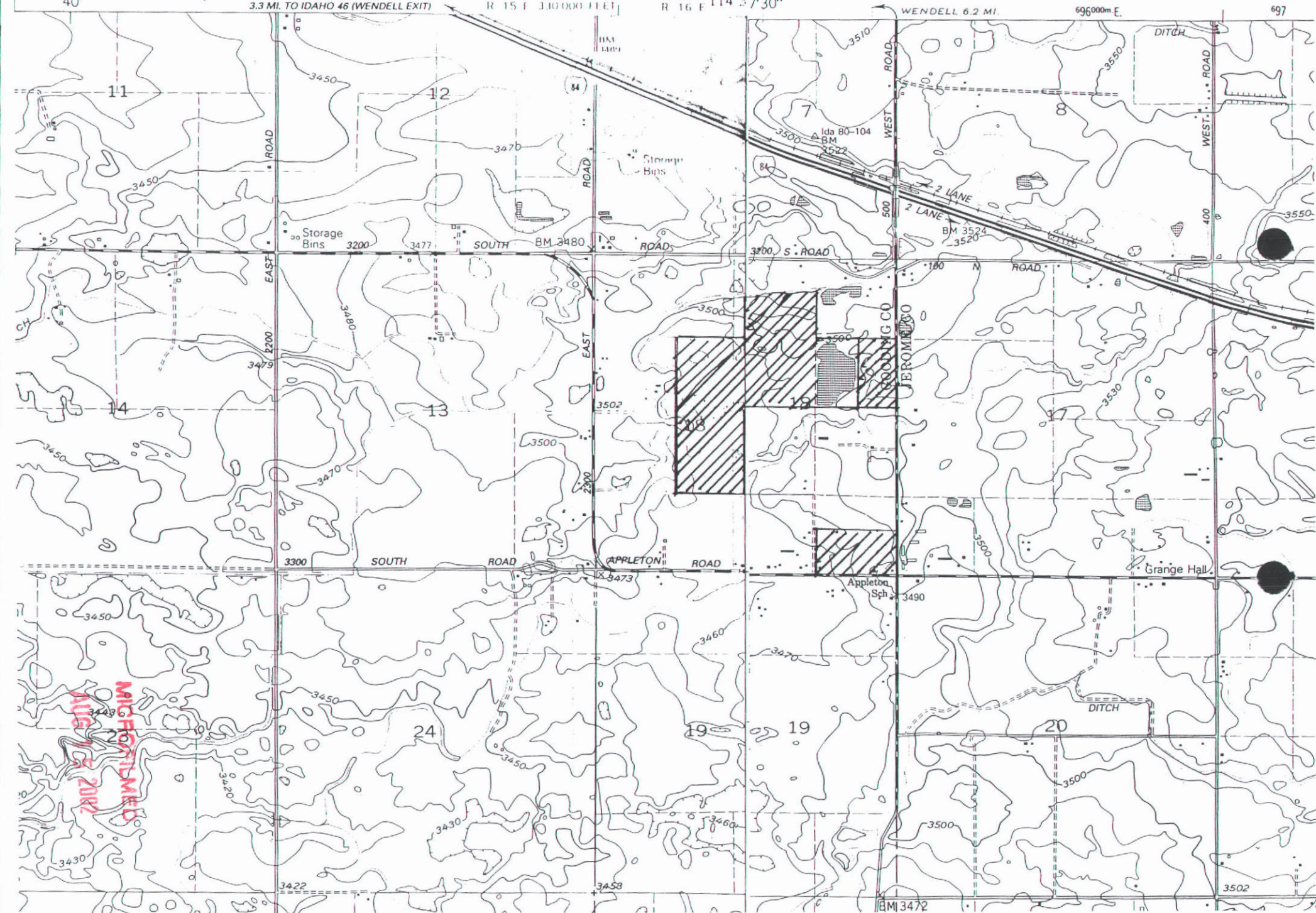
R 15 E 310 000 FEET

R 16 E 114° 37' 30"

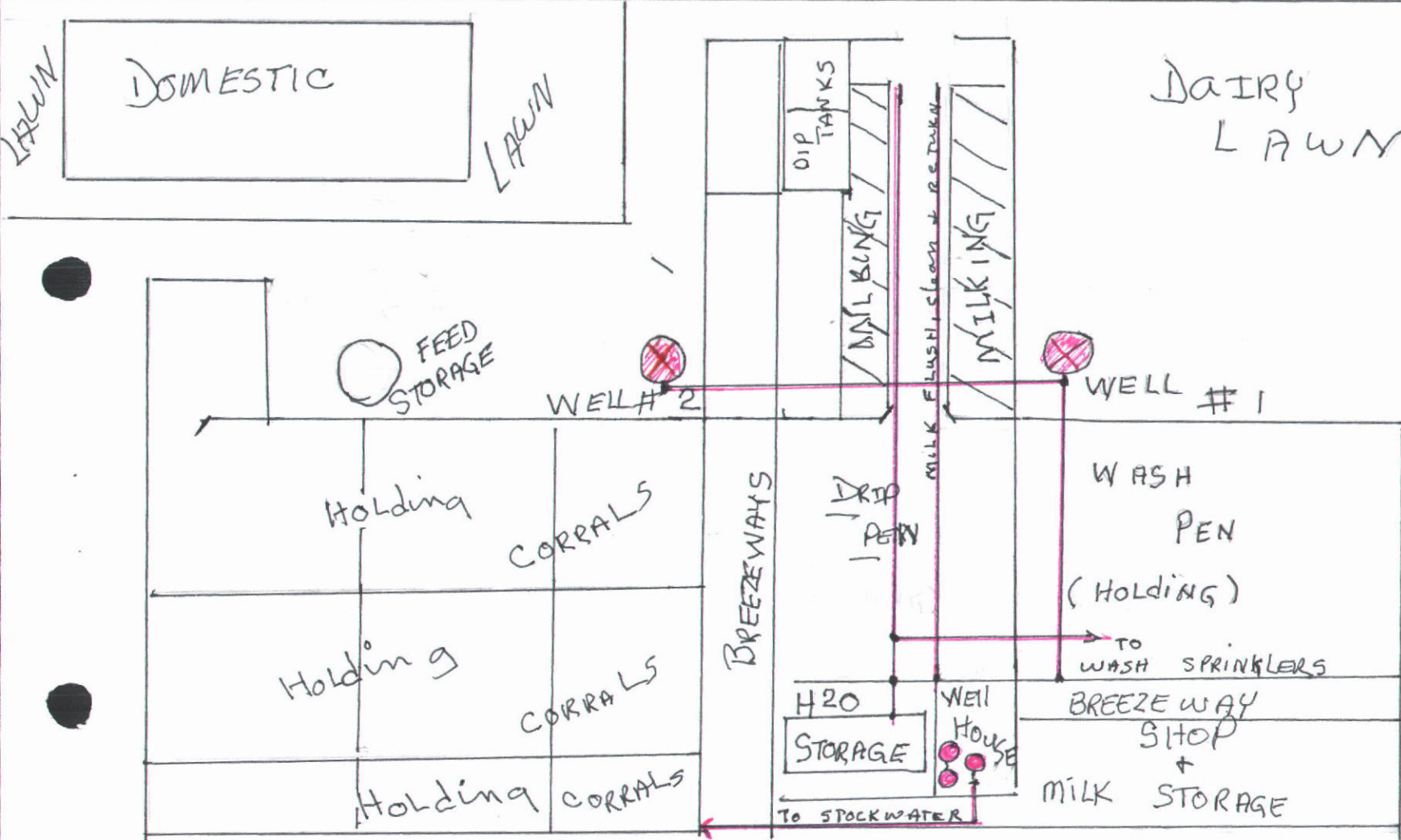
WENDELL 6.2 MI.

696000m E.

697



3257 S ROAD



MICROFILMED
AUG 15 2002

PERMIT 36-08582 INIT dr
T. R. S. Q/Q
P/D 25 16E 18 NE/SE
SCALE _____
PHOTO ID. _____



Bewkers

PERMIT 36-08382 INIT Int
T. R. S. Q/Q
P/D 85 165 18 NE/NE/SE
SCALE _____
PHOTO ID. _____



MICROFILMED

AUG 15 2002

PERMIT 36-08382 INIT det
T. R. S. Q/Q
P/D 85 165 18 N/E/N/E/SE
SCALE _____
PHOTO ID. _____



P/D
15HP



P/D
15HP

MICROFILMED

AUG 15 2002

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 36-08382

Priority: August 16, 1988

Maximum Diversion Rate: 0.67 CFS
Maximum Diversion Volume: 201.2 AF

It is hereby certified that JOHN BEUKERS And RUTH BEUKERS
3257 S 2400 E
JEROME ID 83338

And

NORTHWEST FARM CREDIT SERVICES FLCA
1363 FILLMORE

TWIN FALLS ID 83303-5059 have complied with the terms and

conditions of the permit, issued pursuant to Application for Permit dated August 16, 1988; and have submitted Proof of Beneficial Use on December 28, 1992. An examination indicates that the works have a diversion capacity of 0.67 cfs of water from:

SOURCE

GROUND WATER

and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL DIVERSION VOLUME</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
STOCKWATER	01/01 to 12/31	0.56 CFS	200.0 AF
COMMERCIAL	01/01 to 12/31	0.67 CFS	200.0 AF

LOCATION OF POINTS OF DIVERSION:

GROUND WATER SE 1/4 NE 1/4 SE 1/4 Sec. 18, Twp 08S, Rge 16E, B.M., GOODING County
GROUND WATER NE 1/4 NE 1/4 SE 1/4 Sec. 18, Twp 08S, Rge 16E, B.M., GOODING County

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
08S 16E 18													X				

PLACE OF USE: STOCKWATER - Same as Domestic

PLACE OF USE: COMMERCIAL

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
08S 16E 18		X	X	X				X	X				X			X	

MICROFILMED

AUG 15 2002

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 36-08382

CONDITIONS OF APPROVAL

1. Rights 36-10415 and 36-10416 are also diverted through the point of diversion within the NENESE, S18, T08S, R16E.
2. Domestic use is for 1 home.
3. Commercial use is for a dairy located in the NESE, S18, T08S, R16E.
4. The place of commercial use authorized by this approval includes land upon which wastewater may be applied for irrigation purposes to satisfy water quality requirements. Water diverted under this approval shall not be used for irrigation unless the water is first used in the dairy as authorized by this water right.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed and sealed this 2ND day of August, 2002.

Acting for


KARL J. DREHER
Director

MICROFILMED
AUG 15 2002

RECEIVED

JUL 29 2002

Department of Water Resources

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT

(For Licensing Purposes)

WATER RIGHT NO. 36-08382

Date of Priority: August 16, 1988

Maximum Diversion Rate:

0.67 CFS

Maximum Diversion Volume:

~~145.0 AF~~
201.2

Comes now JOHN BEUKERS And RUTH BEUKERS

3257 S 2400 E

JEROME ID 83338

And

NORTHWEST FARM CREDIT SERVICES FLCA

1363 FILLMORE

PO BOX 5059

TWIN FALLS ID 83303-5059 and represents to the Director of the Idaho Department of Water Resources that he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 36-08382, and requests that the permit be changed as follows:

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
STOCKWATER	01/01 to 12/31	0.56 CFS	~~54 38.7 AF~~ 200.
COMMERCIAL	01/01 to 12/31	0.67 CFS	~~146 113.0 AF~~ 200.

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 18, Twp 08S, Rge 16E, B.M., GOODING County

GROUND WATER NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 18, Twp 08S, Rge 16E, B.M., GOODING County

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08S 16E 18													X				

PLACE OF USE: STOCKWATER

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08S 16E 18													X			X	

MICROFILMED

AUG 15 2002

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT

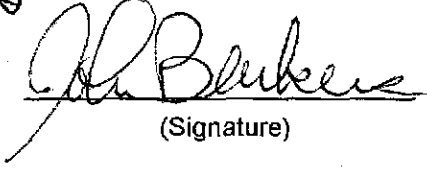
(For Licensing Purposes)

WATER RIGHT NO. 36-08382

PLACE OF USE: COMMERCIAL

Twp Rge Sec	NE			NW			SW			SE			Totals
08S 16E 18	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
	X	X	X		X	X		X	X	X		X	

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk. Signed this 26 day of July, 2002.


(Signature)

FOR DEPARTMENT USE ONLY
Preliminary check by kw Fee = \$150.00 Received by jm # 0063605 Date JUL 29 2002

ACTION OF THE DEPARTMENT OF WATER RESOURCES

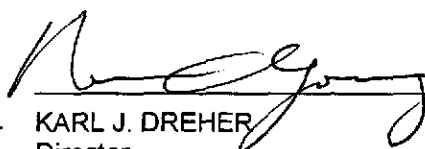
I, Karl J. Dreher, of the Department of Water Resources hereby approve the above Application for Amendment for Permit No. 36-08382 with the following:

CONDITIONS OF APPROVAL

1. Rights 36-10415 and 36-10416 are also diverted through the point of diversion within the NENESE, S18, T08S, R16E.
2. Domestic use is for 1 home.
3. Commercial use is for a dairy.
4. The place of commercial use authorized by this approval includes land upon which wastewater may be applied for irrigation purposes to satisfy water quality requirements. Water diverted under this approval shall not be used for irrigation unless the water is first used in the dairy as authorized by this water right.

Witness my hand this 2ND day of AUGUST, 2002.

Acting for


KARL J. DREHER
Director

MICROFILMED
AUG 15 2002

WATER RIGHT SUMMARY

ACTION	RIGHT NO.	NAME	AMOUNT CFS
Original Application	36-08382	John Buekers	1.00
Full Assignment	36-08382	John Beukers Northwest Farm Credit Services ACA	1.00

RECORDED
OCT 19 1993

RECEIVED

RECEIVED

SEP 24 1993

SEP 24 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Department of Water Resources
Southern Region Office

Department of Water Resources
Southern Region Office

ASSIGNMENT OF PERMIT

We, JOHN BEUKERS and RUTH BEUKERS
hereby assign to (name and address)
JOHN BEUKERS and RUTH BEUKERS, and NORTHWEST FARM
CREDIT SERVICES, ACA, 129 Eastland Drive, P. O. Box 288, Twin Falls ID
83303-0288

All our right, title and interest in and to Permit No. 36-08382 to
appropriate the public waters of the State of Idaho.

or (for partial assignments)

The following described portion of my right, title and interest in and to
Permit No. _____ to appropriate the public waters of the State of Idaho.

Describe portion of the application assigned listing the number of acres
in each 40 acre subdivision, point of diversion location, and the amount
of water in cubic feet per second.

Made this 19 day of October, 1992.

John Beukers
Ruth Beukers

STATE OF IDAHO)
County of Twin Falls) ss

On this 19th day of October, 1992, personally appeared
before me the signers of the above instrument, duly acknowledged to me that
they executed the same.

Lila D. O'Connell
Notary Public for Idaho
Residing at Twin Falls
My Commission Expires 5-28-93

RECEIVED

SEP 28 1993

Department of Water Resources

RECEIVED
OCT 19 1993

database updated 9/29/93 cz.

Form 217
11-79
RECEIVED

DEC 28 1992

Department of Water Resources
Southern Region Office

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

OFFICE USE ONLY
Amt. of Fee \$ 100.00
Date 12-28-92
Receipt No. 5015248
Receipt by J. Stanton

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form 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, when necessary, or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 36-08382 Telephone No. 324-8618
2. Name(s) of Permit Holder(s): John Beukers
3. Mailing Address: 3257 S. 2400 E. Jerome ID 83338
4. Source of Water: Groundwater well

If **GROUNDWATER**, Well Driller's Name: Smith Drilling & Pump Co Inc Date Drilled: ~~12-28-92~~
12-8-92

OPTIONAL:

Pump horsepower: 15 Pressure (psi): 50 Dynamic pumping level (ft.): 180

5. Extent of Use (as authorized by the permit):

Domestic 1 (No. of households) Stockwater 1300 dairy, 700 range (No. and type of stock)
Irrigation _____ (No. of acres) Other Dairy barn

6. Total rate and/or volume for which proof is submitted 1.00 cfs OR _____ acre/feet
7. Refer to the approval conditions on your permit and respond accordingly:

Measuring device: Required? _____ Yes 1 No _____ Installed? _____ Yes _____ No

OR

Flow Measurement Port: Required? _____ Yes 1 No _____ Installed? _____ Yes _____ No

8. Fee Enclosed: \$ 100.00 (See License Fee Schedule on back of Instruction Sheet)
9. Person to contact to accompany the Department representative during field examination of the water system.

John Beukers 324-8618
Name Telephone No.
3257 S. 2400 E. Jerome
Address

10. 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.

12-28-92
Date

John Beukers
Signature (and title, if on behalf of a company or organization)

RECEIVED
FEB 17 1993

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 36-08382

Proposed Priority: August 16, 1988

Maximum Diversion Rate:

1.00 CFS

This is to certify, that **JOHN BEULERS**
3257 S. 2400 E.
JEROME, ID 83338

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>
STOCKWATER	01/01 to 12/31	0.56 CFS
COMMERCIAL	01/01 to 12/31	1.00 CFS
DOMESTIC	01/01 to 12/31	0.04 CFS
Totals		1.00 CFS

LOCATION OF POINT(S) OF DIVERSION:

SESE Sec. 18, Township 08S, Range 16E
NESE Sec. 18, Township 08S, Range 16E
GOODING County

PLACE OF USE: STOCKWATER

TWN RGE SEC

08S 16E 18 NESE SESE

PLACE OF USE: COMMERCIAL, same as STOCKWATER use

PLACE OF USE: DOMESTIC, same as STOCKWATER use

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before January 1, 1993.
2. Subject to all prior water rights.
3. Permit holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
4. Water used under this permit if discharged into a natural channel or subsurface system shall meet Idaho Water Quality Standards.
5. Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is complete.
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. 2 points of diversion located in SESE & 2 points of diversion located in NESE; S18, T8S, R16E.
8. Commercial use is for dairy servicing.
9. Domestic use is for 1 home.

MICROFILMED

DEC 15 1989

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 36-08382

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

14 day of December, 1989.

R. Keith Higginson

R. Keith Higginson, Director

for

MICROFILMED

DEC 15 1989

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant John Beulers Phone _____
Post office address 3257 S. 2400 E. Jerome, ID 83338

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

3. Location of point of diversion is _____ $\frac{1}{4}$ of SE $\frac{1}{4}$ of SE (2 wells)
Sec. 18 Township 8S Range 16E B.M. Gooding County; additional
points of diversion if any: 2 existing wells in NE1/4SE1/4, Sec. 18, T8S, R16E

4. Water will be used for the following purposes:

Amount 0.56 for stockwater purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 1.00 for commercial purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount .04 for Domestic purposes from 01/01 to 12/31 (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 is (a) 1.00 and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. 2 existing wells with 5 hp pumps which
service existing dairy & home, 2 new wells to be drilled, 15 hp pumps, to service
new dairy barn.

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.

c. Proposed well diameter is 8 inches; proposed depth of well is 300 feet.

d. Is ground water with a temperature of greater than 90°F being sought? No

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).

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DEC 15 1989

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in KW. _____
- b. Stockwatering; list number and kind of livestock. 800 dairy cows, 200 dry cows
- c. Municipal; show name of municipality. _____
- d. Domestic; show number of households. 1 (one)
- e. Other; describe fully. Commercial; dairy servicing

9. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
8S	16E	18													X			X	

x=all uses described in item 4.

Total number of acres to be irrigated _____

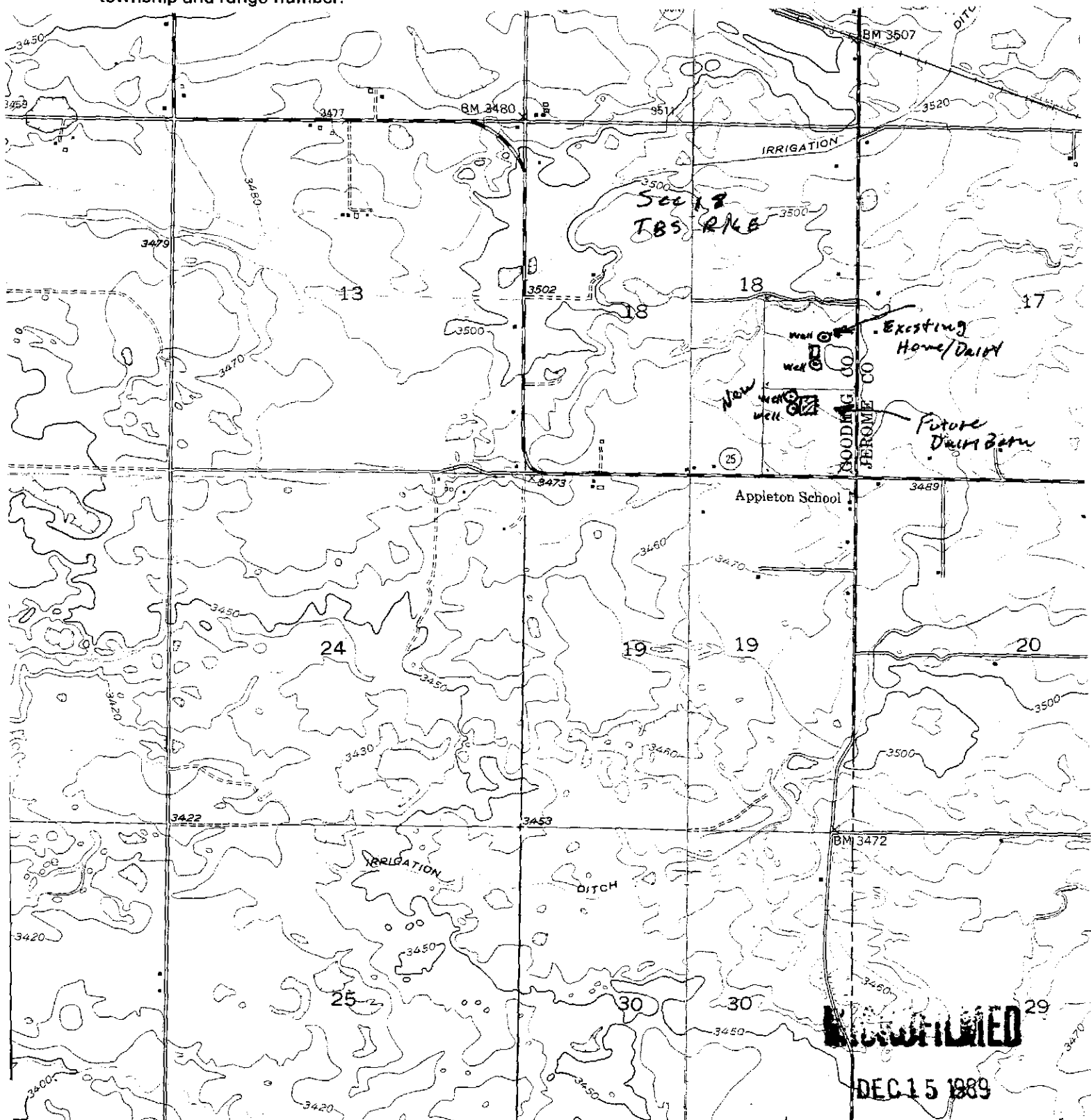
10. Describe any other water rights used for the same purposes as described above. _____
claims

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

12. Remarks: This application covers expansions made since 1977 & future planned expansion.

DEC 15 1989

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



RECORDED
DEC 15 1989

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.

John Bunkers
(Applicant)

Received by TJ Date 8/16/88 Time 8:35 AM Preliminary check by CF
Fee \$ 45.00 Receipted by TJ # 5001463 Date 8/16/88
Publication prepared by M. Baldwin Date 10/20/88 Published in Gooding Co. Leader
Publication approved M. Baldwin Date 11/21/88

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. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other:

MICROFILMED

DEC 15 1989

AFFIDAVIT of PUBLICATION

RECEIVED

NOV 10 1988

State of Idaho,)
) SS.
County of Gooding)

Department of Water Resources
Southern Region Office

David Lombes, being first duly sworn, deposes and says that he is the printer (publisher) of the Gooding County Leader, a newspaper published every week in Gooding, County of Gooding, State of Idaho, that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 2nd day of Nov 19 88, and the date of the last publication was on the 9 day of Nov 19 88.

Subscribed and sworn to before me this 9th day of Nov, 19 88.
(SEAL)

Laurene M. Ferme
NOTARY PUBLIC

GOODING COUNTY LEADER
Gooding, Idaho

COST OF PUBLICATION

Number of Lines in Notice 29
Number of Insertions 2

Lines tabular at 5¢/Pica
29 Lines straight at 15.08 4¢/Pica
29 Subsequent lines at 13.19 3¢/Pica
TOTAL COST 28.27

COPY OF NOTICE (Paste Here)

Appeal for water
TITLE OF NOTICE

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

Dept of Water
BILL TO

NOTICE OF APPLICATION FOR WATER RIGHT
The following application has been filed to appropriate the public waters of the State of Idaho:

35-09382
BEULERS, JOHN, 3257 S. 2400 E.,
JEROME, ID 83338
Source: GROUNDWATER
Division Pt: NESE Sec 18 T 08S R 18E;
Gooding County; 6 miles East
SESE Sec 18 T 08S R 18E of
Jerome.

Use: STOCKWATER (500 CFS)
COMMERCIAL (1,000 GFS)
DOMESTIC (200 CFS)

Date Filed: 8/10/1988
In: T08S R18E S18 - NESE - SESE

The permit 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, 2146 4th Avenue East, Twin Falls, Idaho 83301 on or before NOVEMBER 21, 1988.

R. Keith Higginson, Director
Publish: November 2 and 9 Q3031

PUBLICATION RATES

(Idaho Code, Rev. Statutes 1984)

7-8 pt. per line straight 4¢/Pica
7-8 pt. per line tabular 5¢/Pica
7-8 pt. per line successive
insertions 3¢/Pica

MICROFILMED

DEC 15 1988 No 1315

3031



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

August 6, 2002

JOHN BEUKERS
RUTH BEUKERS
3257 S 2400 E
JEROME ID 83338

NORTHWEST FARM CREDIT SERVICES FLCA
PO BOX 5059
TWIN FALLS ID 83303-5059

RE: License No. 36-8382 - Issuance of License

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license.

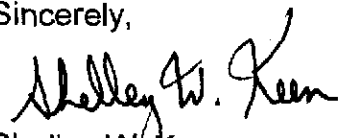
The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

Enclosed is a copy of the approved Application for Amendment.

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-327-7946.

Sincerely,


Shelley W. Keen
Water Rights Supervisor

SWK:klt

Enclosure(s)

MICROFILMED

AUG 15 2002

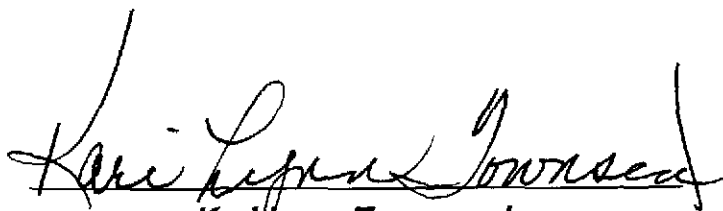
CERTIFICATE OF SERVICE

I hereby certify that on August 6, 2002 I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER(Approved License) to the person(s) listed below:

RE: WATER RIGHT NO. 36-8382

**JOHN BEUKERS
RUTH BEUKERS
3257 S 2400 E
JEROME ID 83338**

**NORTHWEST FARM CREDIT SERVICES FLCA
1363 FILLMORE
PO BOX 5059
TWIN FALLS ID 83303-5059**



**Kari Lynn Townsend
Secretary**

MICRO

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**EXPLANATORY INFORMATION
TO ACCOMPANY A
PRELIMINARY ORDER**

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department of Water Resources (department) unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the department or the Idaho Water Resource Board (Board) is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

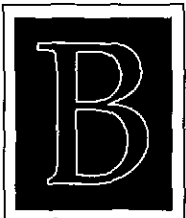
- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.



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P.L.L.C.

Hydraulics

Hydrology

Water Resources

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JUL 29 2002

Department of Water Resources

July 25, 2002

Kay Walker
Idaho Department of Water Resources
1301 North Orchard Street
Boise, ID 83706

Subject: Water Right Permit 36-08383 John and Ruth Beukers

Dear Kay:

During our telephone conversation on July 24, 2002 you indicated that you had reviewed the additional information, which I included in my June 26, 2002 letter, particularly regarding the animal inventory data to support the estimate of animals in 1992. You indicated that, based on these numbers and our discussions relative to the Brockway Engineering Water Requirements Worksheet, that the Department would allow an annual pumped volume of 200 acre feet under this water right.

Although this is less than the estimated 224.6 acre feet which I believe may better reflect the required water use for a dairy utilizing water management technology like the Beuker's dairy, John and Ruth Beukers believe this is a reasonable compromise and will execute the amendment to reflect the 200 af volume for stock and commercial use. The amendment should therefore reflect the following allowable water uses:

Domestic	0.04 cfs	1.2 AF
Stockwater	0.56 cfs	54 AF
Commercial	0.67 cfs	146 AF
Total		201.2 AF

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PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506

I am enclosing the Application for Amendment with the changes in the diversion volumes initialed by John Beukers. Also enclosed is a Brockway Engineering check for \$50.00 for the filing fee.

Thanks for your patience in this matter.

Sincerely,

Charles E. Brockway P.E., PhD.

Enclosures:

MICROFILMED

Cc: John & Ruth Beukers
Rob Williams

AUG 15 2002

YEAR	MILKING COWS	DRY COWS	REPORTED USE	WORKSHEET VOLUME
1992	1472	387		***224.6 <i>his</i>
1993	1384	416		
1994	1453	332		
1995			2.444	
1996	*1000	*300	135.92	160.7
1997			171.87	
1998			188.97	
1999			229.8	
2000			183.91	
2001	***2000	***800	271.56	213.5
	* = field examiner			
	*** = Brockway			

98-2001) average ^{reported} use: well #1 = 163.1
#2 = 55.4
218.6 AFA

$$1996 : \frac{1000 \text{ cows}}{136 \text{ AF}} = \frac{1472 \text{ cows}}{X \text{ AF}} = \frac{(200 \cdot 192)}{200 \text{ AF}}$$

$$2001: \frac{2000 \text{ cows}}{272 \text{ AF}} = \frac{1472 \text{ cows}}{X \text{ AF}} = \frac{(200.192)}{200 \text{ AF}}$$

found 135 AF needed for 1000 hd. cows
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MEMORANDUM

TO: File 36-08382

FROM: KAY WALKER 

RE: License Recommendations

Date: July 26, 2002

.....

In attempts to license this dairy, we found that our worksheet and Brockway's worksheet for dairies were not consistent with one another. Since both of the worksheets are only estimates of what is actually going on at the dairy we used known data from 1996 and 2001 which determined that approximately 135 af of water was needed for each 1000 head of cattle (see attached chart). We found that we could allow 200 acre feet of water for the development that was in place in 1992 using numbers submitted by Mr. Brockway. The 200 acre feet now being recommended also is a good medium between the 175.6 acre feet we found on our worksheet and the 224.6 acre feet Brockway found using his worksheet.

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FILE NUMBER _____ 36-08382
REVIEWER _____ Inv based on 1996 known data
DATE _____ July 22, 2002

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE _____ 1000
NUMBER OF DRY CATTLE _____ 300
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS _____
3-4 MONTHS _____
5-8 MONTHS _____
9-12 MONTHS _____
13-15 MONTHS _____
16-24 MONTHS _____
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING,
OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS _____ 3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN _____ 50
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) _____ 5.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY) _____ 380
NUMBER OF MILKINGS PER DAY _____ 3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHG AVG IS 70 LBS.) _____ 75
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES? _____ Y
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN? _____ 24.0
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN? _____ 24.0
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN? _____
IS A PLATE COOLER USED? _____ Y
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE
COOLER, LEAVE BLANK) _____ N
ARE CORRAL MISTERS USED IN HOLDING PEN? _____ Y
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN,
ASSUME 1 MISTER FOR EVERY 5 COWS) _____ 294
NOZZLE DISCHARGE (USE 5 GPM IF UNKNOWN) _____ 5.50
SPRAY INTERVAL (EX - 2 MIN ON EVERY 5 MIN = 2/5) _____ 2/5
OPERATION TIME OF MISTERS (HRS/DAY) _____ 10
DAYS PER YEAR MISTERS ARE USED _____ 45
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT
INDIVIDUALLY CALCULATED BELOW (EX - RESTROOMS, WASHING MACHINES) _____ 5000

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER
MILKING CATTLE (BASED ON MILK PRODUCTION) _____ 0.05
DRY CATTLE @ 17.0 GPD/HD _____ 0.01
REPLACEMENT CATTLE _____ 0.00
TOTAL _____ 0.06

COMMERCIAL
TOTAL _____ 0.17

TOTAL DIVERSION RATE _____ 0.23

DIVERSION VOLUME (AFA):

STOCKWATER
MILKING CATTLE _____ 34.6
DRY CATTLE _____ 4.5
REPLACEMENT CATTLE _____ 0.0
TOTAL _____ 39.1

COMMERCIAL
WASHING OF BULK TANK AND RELATED EQUIPMENT _____ 0.6
BACKFLUSH _____ 1.7
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP _____ 3.0
CATTLE WASHING BASED UPON METHOD OF WASHING _____ 100.8
PLATE COOLER _____ 9.0
CORRAL MISTERS _____ 0.9
MISCELLANEOUS USES _____ 5.6
TOTAL _____ 121.6

TOTAL DIVERSION VOLUME _____ 160.7

CONSUMPTIVE USE VOLUME (AFA) (assuming 100% consumptive):

STOCKWATER _____ 39.1
COMMERCIAL _____ 121.6
TOTAL CONSUMPTIVE USE _____ 160.7

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP) _____	15.00	16.00	0.00	0.00	0.00
PUMP EFFICIENCY (%) _____	70	70	70	70	70
LIFT (FT) _____	175	171	0	0	0
DISCHARGE PRESSURE (PSI) _____	40	40	0	0	0
FRICTION LOSSES (FT) _____			0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES _____	12.0	12.0	0.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) * _____	0.35	0.35	0.00	0.00	0.00
DIVERSION VOLUME (AFA) ** _____	125.1	127.0	0.0	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

DIVERSION RATE _____	4.80 CFS
ACRES OF IRRIGATION _____	240.0 ACRES
DIVERSION VOLUME _____	4.0 AC-FT/AC
CONSUMPTIVE USE VOLUME _____	3.0 AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)? _____	
	B

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE _____	0.020 CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE _____	11.5 ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME _____	40.2 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE _____	63.6 ACRES

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FILE NUMBER 36-08382
REVIEWER low based on 2001 known data
DATE July 22, 2002

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE 2000
NUMBER OF DRY CATTLE 800
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS
3-4 MONTHS
5-8 MONTHS
9-12 MONTHS
13-15 MONTHS
16-24 MONTHS
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING,
OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS 3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN 50
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) 5.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY) 380
NUMBER OF MILKINGS PER DAY 3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) 75
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES? Y
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN? 24.0
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN? 24.0
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN?
IS A PLATE COOLER USED? Y
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE
COOLER, LEAVE BLANK) N
ARE CORRAL MISTERS USED IN HOLDING PEN? Y
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN)
ASSUME 1 MISTER FOR EVERY 5 COWS 284
NOZZLE DISCHARGE (USE 5 GPH IF UNKNOWN) 5.50
SPRAY INTERVAL (EX - 2 MIN ON EVERY 5 MIN = 25) 25
OPERATION TIME OF MISTERS (HRS/DAY) 10
DAYS PER YEAR MISTERS ARE USED 45
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT
INDIVIDUALLY CALCULATED BELOW (EX - RESTROOMS, WASHING MACHINES) 5000

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER
MILKING CATTLE (BASED ON MILK PRODUCTION) 0.11
DRY CATTLE @17.0 GPM/HD 0.02
REPLACEMENT CATTLE 0.00
TOTAL 0.13

COMMERCIAL
TOTAL 0.18

TOTAL DIVERSION RATE 0.31

DIVERSION VOLUME (AFA):

STOCKWATER
MILKING CATTLE 89.2
DRY CATTLE 12.1
REPLACEMENT CATTLE 0.0
TOTAL 101.3

COMMERCIAL
WASHING OF BULK TANK AND RELATED EQUIPMENT 0.6
BACKFLUSH 3.4
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP 3.0
CATTLE WASHING BASED UPON METHOD OF WASHING 100.8
PLATE COOLER 17.9
CORRAL MISTERS 0.9
MISCELLANEOUS USES 5.8
TOTAL 132.2

TOTAL DIVERSION VOLUME 213.5

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER 81.3
COMMERCIAL 132.2
TOTAL CONSUMPTIVE USE 213.5

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP)	15.00	15.00	0.00	0.00	0.00
PUMP EFFICIENCY (%)	70	70	70	70	70
LIFT (FT)	175	171	0	0	0
DISCHARGE PRESSURE (PSI)	40	40	0	0	0
FRICTION LOSSES (FT)			0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES	12.0	12.0	0.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) *	0.35	0.35	0.00	0.00	0.00
DIVERSION VOLUME (AFA) **	125.1	127.0	0.0	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

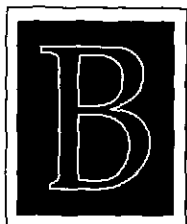
DIVERSION RATE	4.80 CFS
ACRES OF IRRIGATION	240.0 ACRES
DIVERSION VOLUME	4.0 AC-FT/AC
CONSUMPTIVE USE VOLUME	3.0 AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)?	B

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE	0.020 CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE	15.5 ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME	53.4 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE	71.2 ACRES

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Hydraulics

Hydrology

Water Resources

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Department of Water Resources

June 26, 2002

Kay Walker
Idaho Department of Water Resources
1301 North Orchard Street
Boise, ID 83706

Subject: Water Right Permit 36-08383 John and Ruth Beukers

Dear Kay:

I am in receipt of your letter dated May 20, 2002 relative to the proposed license change for water right 36-08383. As I understand you could allow an estimated annual volume of 174.0 acre feet for the dairy based on 1300 milking cows and 700 dry cows, if it could be shown that there were, in fact, that number of animals on the dairy in 1992 at the time proof of beneficial use was submitted. This volume was estimated using the current version of the IDWR Dairies: Water Use Worksheet

We have been searching the old records for animal inventories and production records to confirm the number of cows on the dairy around the 1992 period. John Beukers has found some records for 1993 and 1994, which indicate that there were a larger number of milking cows on the dairy during those years. The attached worksheet shows the numbers, which John could find for those years. The estimate for 1992 is based upon the percentages of animals of each type that were documented in 1993 and 1994. This estimate indicates that there were some 1472 milking cows, 268 dry cows and 119 heifers and bulls on the dairy in 1992.

Based on these numbers, I ran the IDWR Dairies: Worksheet, which calculates an annual total volume of 183.7 af. I also ran the Brockway Engineering Water Requirements and Consumptive Use Worksheet using the same animal numbers. This worksheet estimates a diversion requirement of 224.6 acre feet annually.

I would like to point out that both of these estimating procedures are based on estimates of water requirements for the various components of dairy use, none of which have been verified for dairies in Idaho with the level of water management as a factor. The Beukers dairy is not state-of-the-art as far as water use efficiency is concerned, although they have made significant improvements since 1992. This is a flush dairy and the backflush volume

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JUL 15 2002

settings are based on early technology. Our experience is that the age and type of dairy and the water management level greatly affect the water requirements for various dairies.

For instance, measured water use on a 3945 cow flush dairy in Minidoka County with no heifers or calves averages 466 af/year. Estimates of the annual volume requirement for this dairy using the IDWR Worksheet is 228.6 af/year and with the Brockway Engineering Worksheet it is 294.0 af/year. Both of these estimates are significantly less than the measured water use. Cindy Yenter of the Southern Region has verified this large use and we are in the process of transferring water rights to provide for the use.

The point is, utilization of any estimating procedure, which purports to define the water requirements for the entire range of water management, and equipment variation will invariably underestimate requirements in many cases.

I believe the data John Beukers was able to find on animal numbers verifies the 1472 milking cows on the dairy in 1992. Those inventories on which this number is based can be furnished by Mr. Beukers. However, I believe that basing a water right license volume component strictly on an estimating procedure which is known to underestimate water requirements can be unfair to the water user especially for dairies, which utilize flush systems as in the Beuker's dairy.

Based on this analysis, I believe that a reasonable annual volume for this dairy would be 226.2 af/a, which would allow for abnormally high water use years and variations in management.

As I indicated in my letter of May 6, 2002, the estimated discharge from the IDWR worksheet appears to be reasonable compared to other facilities and the recommended amended discharge of 0.67 cfs (300.7 gpm) for this facility are reasonable.

I am therefore requesting, on behalf of the Beukers that the proposed Application for Amendment be approved with the place of use as proposed, the rates of diversion as proposed, but that the annual volumes should be:

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Domestic	1.2 AF
Stockwater	61 AF
Commercial	164 AF
Total	226.2 AF

Again, I believe these volumes more accurately reflect the water requirements for this dairy and allow for the fact that water use can vary significantly with the type of equipment and level of water use and efficiency.

If you concur with these suggested water right components, please let me know and I will get the signed amendment and fee to you.

Thanks for your patience in this matter.

Sincerely,

Janya Eldredge
For Charles E. Brockway P.E., PhD.

Enclosures:

Cc: John & Ruth Beukers
Rob Williams

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AUG 15 2002

Beukers Dairy

Animal Numbers and Milk Production From John Beuker Records

	1992 % of Total		1993 % of Total		1994 % of Total	
Milking Cows	1472	79.14%	1384	76.89%	1453	81.40%
Dry Cows	268	14.43%	242	13.44%	275	15.41%
Heifers	100	5.40%	152	8.44%	42	2.35%
Bulls	19	1.03%	22	1.22%	15	0.84%
Total	1860		1800		1785	

Milk -Sept 1

Annual Milk Prod	31648000*	30658321**	35797267**
Avg/year/cow lb	21500	21500	21500
Est. No of Cows	1472	1426	1665

**from dairy records

*estimated

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2002 1 5 2002

Livestock Confinement Operations

Water Requirements and Consumptive Use Worksheet

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The information, data, or computational procedures herein may not be duplicated without the express written consent of Brockway Engineering.

COMPLETE BLUE HIGHLIGHTED SECTIONS ONLY

Prepared for: Beukers Dairy-Home #1
Gooding County

Revision: 9801
Run Date: 6/26/02

Remarks: Data from John Beukers Records on cow numbers 1992

Herd Information - User Input

Number of milking cows 1472 Breed: Large
Number of dry cows 268
Number of other adult dry animals 0

Calves at age: Heifers at age:
1 month 0 5 months 30
2 months 0 15 - 18 months 40
3 months 0 18 - 24 months 49
4 months 0

ANIMAL INFORMATION

Use defaults or enter values if known

Average body weight 1450 lbs Nearest weather station Jerome
Milk fat percentage 3.5 % Number of milkings/day 3
Average days dry 60
Annual milk yield per animal 21500 lbs/year Check: Total herd size based on days dry 1630
Percent dry matter in ration 90 % HERD SIZE NOT CONSISTENT WITH DAYS DRY

Lagoon Information - User Input

Lagoon Number	Top width	Top length	SS (h:v)	Max depth	Average depth factor	% days with water	Top Area	Bottom Area	Average Area
1	400	525	2	8	0.5	100	210000	195456	202728
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
MICROFILMED							TOTAL ACRES	4.82	4.49
								4.65	

Facility Information - User Input

	Holding Pen 1	Holding Pen 2
Holding pen active	1	0 (0 = not used or nonexistent)
Number of sprinklers in pen	50	0
Average line pressure	40	60 psi
Sprinkler nozzle size - primary	5/32	5/32 inches
Sprinkler nozzle size - secondary	3/32	0 (enter 0 for single-nozzle sprinklers)
Daily operation time of sprinklers	360	0 minutes
Percent of days per year cows are washed	100	0 %
Number of free stalls	0	
Length of each free stall	1000 feet	
Width of each free stall	50 feet	
Is the feeding area flushed to lagoon?	No	
Is this housing area flushed to lagoon?	No	
	Barn	Feeding Housing
Flushing recycle rate	0	0 0

CLEANING / FLUSHING VOLUMES

Use defaults or enter manufacturer volumes

Cleaning parlor floor	8300 gal/day	Cleaning pipeline	200 gal
Cleaning milkroom	100 gal	Cleaning equipment	50 gal
Cleaning bulk tank	150 gal		
Additional flush of holding pen (opt.)	5000 gal		

Land Application Information - User Input

Type of system	Center Pivot
Predominant cropping	Alfalfa
Percent of waste water which goes to meet crop irrigation requirement	90 %

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Stockwater Component

Drinking Water Calculation for Lactating Cows

4% fat-corrected milk yield	19887.5 lbs/year
Daily average FCM yield	65.20 lbs/day
Daily average milk yield	70.49 lbs/day
Estimated DMI	49.22 lbs/day

METHOD 1: Kertz

Estimated total water intake (TWI)	287.7 lbs/day or 34.5 gal/day
As-fed feed daily intake	54.7 as-fed lb/day
Water content of feed	5.47 lb/day in feed
Drinking water intake	282.2 lb/day or 33.8 gal/day
Drinking water requirement for lactating cows	49814 gal/day 55.8 ac-ft/year

METHOD 2: Holter and Urban

Regression equation with DMI, milk production, and dry matter %

Drinking water intake	102.5 liters/day 27.1 gal/day
	39870 gal/day 44.7 ac-ft/year

Maximum drinking water requirement 55.8 ac-ft/year

Drinking Water Calculation for Dry Cows

Estimated DMI	27.55 lbs/day
Average drinking water intake	13 gal/day

Average drinking water requirement 3484 gal/day
3.9 ac-ft/year

Drinking Water Calculation for Replacement Herd (Calves and Heifers)

Age	GPD	Ac-Ft/year
1 mo	0	0.00
2 mo	0	0.00
3 mo	0	0.00
4 mo	0	0.00
5 mo	126	0.14
15-18 mo	260	0.29
18-24 mo	414	0.46
Drinking water requirement for replacement herd	800 gpd	0.90 ac-ft/year

TOTAL STOCKWATER COMPONENT 60.6 AC-FT/YEAR

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Commercial Component

Milking Parlor Water Usage Calculation

Volume needed *per milking* in each parlor for:

Cleaning parlor floor	8300 gal	Cleaning pipeline	200 gal
Cleaning milkroom	100 gal	Cleaning equipment	50 gal
Cleaning bulk tank	150 gal	Cleaning cows	736 gal

Total milking parlor volume	28608 gal/day
Second milking parlor volume	0 gal/day
Recycled water	0 gal/day
	32.05 ac-ft/year

Holding Pen Water Usage Calculation

	Pen 1	Pen 2
Output of primary nozzle	4.49	5.5 gpm
Output of secondary nozzle	1.61	0 gpm
Holding pen flushing volume	3000	0 gal
Additional flush volume	5000	0 gal
Sprinkler volume	109800	0 gal/day
Total holding pen volume	117800	0 gal/day
Recycled water	0	0 gal/day

131.96 ac-ft/year

Other Flushing Water Calculation

Daily volume needed for:

Feeding area flushing	0 gal/day
Housing area flushing	0 gal/day

Total other flushing volume	0 gal/day
Recycled water	0
	0.00 ac-ft/year

TOTAL COMMERCIAL COMPONENT 164.0 AC-FT/YEAR

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Consumptive Use Calculation

A. Lagoon Evaporation

Annual reference ET (Allen & Brockway , 1983)	4.51 feet	
Annual open water coeff (Kohler Nordenson Fox)	0.90	
Annual open water (lagoon) evaporation	4.06 feet	
Manual override: Input annual lagoon evap	feet	
Total lagoon water surface area at full	210000 sq. ft.	
Total lagoon bottom area	195456 sq. ft.	
Average surface area when water is present	202728 sq. ft. =	4.65 ac

Total lagoon evaporation 18.91 ac-ft/year

B. Animal usage: milk, metabolism, and excretion loss

	Milking	Dry
Waste excretion volume per cow	1.3	1.3 ft ³ /day/1000lb
Water content	87.5	88.4 %
Total water volume in excrement	18161	3340 gal/day
Percent of excrement flushed to lagoons	15 % (based on areas which are flushed)	
Consumptive use (evap.) of water in excrement	85 %	
Consumptive use (evap.) volume	18276 gal/day	
Excrement c.u. attributable to drinking water	17928 gal/day	
Total milk production - assume 100% leaves site	103764 lbs/day or	12442 gal/day
Water content of milk	10824 gal/day	
Water content attributable to drinking water	10619 gal/day	
Water use for animal metabolism	21938 gal/day	
Metabolism water attributable to drinking water	21521 gal/day	
Consumptive use - replacement herd (100%)	800 gal/day	
Total animal consumptive use from drinking water	50868 gal/day or	57.0 ac-ft/year
Percent of drinking water intake	95.4 %	

C. Parlor/holding pen cleanup

Average sprinkler washing system evap loss	2 %	
Free stall total area	0 sq. ft. =	0.00 acres
Length of time free stall concrete is wet	1 hr/day	
Average evaporation from wet concrete	0.15 in./day	
Sprinkler system loss volume	2.46 ac-ft/year	
Free stall evaporation volume	0.00 ac-ft/year	

Total cleanup loss 2.46 ac-ft/year

D. Land application site

Crop evapotranspiration	3.29 ac-ft/ac/year
Irrigation diversion volume	4.11 ac-ft/ac/year
System efficiency	80 %
Waste water volume to lagoons	165.2 ac-ft/year
Waste water volume available for land application	146.3 ac-ft/year

Total crop consumptive use of waste water 105.3 ac-ft/year

Summary

Drinking Water

Milking herd	55.8
Non-milking herd (dry cows)	3.9
Replacement herd (calves and heifers)	0.9

Total drinking water volume	60.6 ac-ft/year
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Commercial

Milking parlor	32.05
Holding pen and cleanup	132.0
Other flushing water	0.00

Total commercial volume	164.0 ac-ft/year
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TOTAL DIVERSION VOLUME REQUIREMENT	224.6 AC-FT/YR
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Consumptive Use

Lagoon evaporation	18.91
Animal milk, excretion, & metabolism	57.0
Parlor and holding pen cleanup	2.46
Crop consumptive use on land application	105.3

Total consumptive use	183.7 ac-ft/year
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Percent of diversion volume consumed	81.8 %
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Annual crop consumptive use - IDWR allowable	3.0 afa
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Equivalent irrigated acres	61.2 acres
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Diversion volume to acres conversion factor	3.67 ac-ft/ac
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NOV 15 2002

FILE NUMBER Data based on apparent Proof notice-IDWR 36-08362
 REVIEWER CEG 08/17/2002
 IDWR Water Use Worksheet obtained from John Friesag, 01/28/2002
 DAIRIES: WATER USE WORKSHEET

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE 1472
 NUMBER OF DRY CATTLE 288
 NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS 0
 3-4 MONTHS 0
 5-8 MONTHS 0
 9-12 MONTHS 30
 13-15 MONTHS 40
 16-24 MONTHS 59
 ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF
 SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS 3
 IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN 50
 NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) 5.00
 OPERATION TIME OF SPRINKLERS (MIN/DAY) 350
 NUMBER OF MILKINGS PER DAY 3
 AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) 75
 HOURS PER DAY PUMP OPERATES FOR STOCKWATER USE 24.0
 HOURS PER DAY PUMP OPERATES FOR COMMERCIAL USE 24.0
 IS RECYCLED WATER USED TO FLUSH MILKHOUSE AND PARLOR FLOORS? no
 IS RECYCLED WATER USED TO WASH COWS? no
 IS A PLATE COOLER USED? yes
 IS RECYCLED WATER USED FOR PLATE COOLER? (IF NO PLATE COOLER,
 LEAVE BLANK) no
 IF CORRAL MISTERS ARE USED: NUMBER OF MISTERS IN HOLDING PEN 250
 NOZZLE DISCHARGE (GPM) 5.00
 OPERATION TIME OF MISTERS (MIN/DAY) 10
 DAYS PER YEAR MISTERS ARE USED 45

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER
 MILKING CATTLE (BASED ON MILK PRODUCTION) 0.08
 DRY CATTLE @17.0 GPD/HD 0.01
 REPLACEMENT CATTLE 0.00
 TOTAL 0.09
 COMMERCIAL
 TOTAL 0.16
 TOTAL DIVERSION RATE 0.25

DIVERSION VOLUME (AFA):

STOCKWATER
 MILKING CATTLE 50.9
 DRY CATTLE 4.0
 REPLACEMENT CATTLE 1.3
 TOTAL 56.2
 COMMERCIAL
 WASHING OF BULK TANK AND RELATED EQUIPMENT 0.6
 BACKFLUSH 2.5
 PARLOR/MILKHOUSE/HOLDING PEN CLEANUP 3.0
 CATTLE WASHING BASED UPON METHOD OF WASHING 100.8
 PLATE COOLER 13.2
 CORRAL MISTERS 1.8
 TOTAL 119.4
 TOTAL DIVERSION VOLUME 175.6

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER 56.2
 COMMERCIAL 119.4
 TOTAL CONSUMPTIVE USE 175.6

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP)	0.00	0.00	0.00	0.00	0.00
LIFT (FT)	0.00	0.00	0	0	0
DISCHARGE PRESSURE (PSI)	0.00	0.00	0	0	0
FRICTION LOSSES (FT)	0.00	0.00	0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES	0.00	0.00	3.0	0.0	0.0

CALCULATIONS

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
THEORETICAL FLOW RATE (CFS) *	0.00	0.00	0.00	0.00	0.00
DIVERSION VOLUME (AFA) **	0.0	0.0	0.0	0.0	0.0

* PUMP EFFICIENCY WAS ASSUMED TO BE 70%.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
 THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

DIVERSION RATE	CFS
ACRES OF IRRIGATION	ACRES
DIVERSION VOLUME	AC-FT/AC
CONSUMPTIVE USE VOLUME	AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)?	

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE	#DIV/AC	CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE	#DIV/AC	ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME	#DIV/AC	ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE	#DIV/AC	ACRES

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0116 1 3 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098

Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

June 13, 2002

JOHN AND RUTH BEUKERS
3257 S 3200 E
JEROME ID 83338

RE: Permit No. 36-08382

Dear Mr. and Mrs. Beukers:

We sent you correspondence on February 5 and March 13, 2002, regarding the licensing of the above referenced permit. I have received several letters and phone calls from Charles Brockway regarding the water used in your dairy but have still not received the licensing amendment we had requested.

Please be advised that if we don't receive the amendment and \$50.00 filing fee within 15 days of the date of this letter we will prepare a reduced license on this permit. The reason for the amendment was to include the area you indicated that you apply your dairy waste water.

If you have any questions regarding this letter, or need another amendment application, please do not hesitate to contact me at 327-7944. We would like to finalize the licensing of this permit so your prompt attention to this matter would be appreciated.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

KW:k

Cc: Charles Brockway
2016 N Washington St.
Suite 4
Twin Falls, ID 83301

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AUG 15 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

May 20, 2002

CHARLES E BROCKWAY
2016 N WASHINGTON ST
SUITE 4
TWIN FALLS ID 83301

RE: Permit 36-08382 – John and Ruth Beukers

Dear Mr. Brockway:

We are in receipt of the information you submitted on behalf of the Beukers for their dairy operation. In reviewing our permit file and the information you submitted, we determined that we could allow the number of cows that they had on their dairy on December 28, 1992 when proof of beneficial use was submitted. The proof of beneficial use stated that they had 1300 dairy cows and 700 dry cows. We realize that this number still does not cover the number of cows on the dairy today, but it is a greater number than what we originally determined could be covered under the proposed license. Once proof of beneficial use is submitted, the development of the system should have been completed and any other expansions could not be covered under the proposed license.

In order for the Department to recognize the additional number of cows, we need documentation that verifies how many cows were actually on the dairy site on December 28, 1992. I ran the dairy worksheet using the numbers shown on proof of beneficial use form and found that we could allow up to 174.0 acre feet under the proposed license if we receive the requested documentation. I have enclosed a copy of my spreadsheet for your information.

Please submit the documentation, within 15 days of the date of this letter, regarding the number of cows on the dairy in 1992 and hopefully we will be able to complete the licensing process for this permit.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosure

Cc: John and Ruth Beukers
3257 S 3200 E
Jerome ID 83338

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AUG 15 2002

FILE NUMBER 36-09382
REVIEWER low
DATE May 17, 2002

DAIRIES: WATER USE WORKSHEET

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE 1300
NUMBER OF DRY CATTLE 700
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS
3-4 MONTHS
5-8 MONTHS
9-12 MONTHS
13-15 MONTHS
16-24 MONTHS
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING,
OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS 3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN 50
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) 5.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY) 360
NUMBER OF MILKINGS PER DAY 3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) 75
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES? Y
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN? 12.0
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN? 12.0
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN?
IS A PLATE COOLER USED? Y
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE
COOLER, LEAVE BLANK) N
ARE CORRAL MISTERS USED IN HOLDING PEN? N
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN,
ASSUME 1 MISTER FOR EVERY 5 COWS) 280
NOZZLE DISCHARGE (USE 5 GPM IF UNKNOWN) 5.00
SPRAY INTERVAL (EX. 2 MIN ON EVERY 5 MIN = 2/5) 2/5
OPERATION TIME OF MISTERS (HRS/DAY) 10
DAYS PER YEAR MISTERS ARE USED 45
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT
INDIVIDUALLY CALCULATED BELOW (EX. RESTROOMS, WASHING MACHINES) 0

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER
MILKING CATTLE (BASED ON MILK PRODUCTION) 0.14
DRY CATTLE @17.0 GPD/HD 0.04
REPLACEMENT CATTLE 0.00
TOTAL 0.18

COMMERCIAL
TOTAL 0.33

TOTAL DIVERSION RATE 0.51

DIVERSION VOLUME (AF):

STOCKWATER
MILKING CATTLE 45.0
DRY CATTLE 10.6
REPLACEMENT CATTLE 0.0
TOTAL 55.5

COMMERCIAL
WASHING OF BULK TANK AND RELATED EQUIPMENT 0.8
BACKFLUSH 2.2
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP 3.0
CATTLE WASHING BASED UPON METHOD OF WASHING 100.8
PLATE COOLER 11.6
CORRAL MISTERS 0.0
MISCELLANEOUS USES 0.0
TOTAL 118.3

TOTAL DIVERSION VOLUME 173.8

CONSUMPTIVE USE VOLUME (AF)(assuming 100% consumptive):

STOCKWATER 55.5
COMMERCIAL 118.3
TOTAL CONSUMPTIVE USE 173.8

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP)	15.00	15.00	0.00	0.00	0.00
PUMP EFFICIENCY (%)	70	70	70	70	70
LIFT (FT)	175	171	0	0	0
DISCHARGE PRESSURE (PSI)	40	40	0	0	0
FRICTION LOSSES (FT)			0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES	12.0	12.0	0.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) *	0.35	0.35	0.00	0.00	0.00
DIVERSION VOLUME (AF) **	125.1	127.0	0.0	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

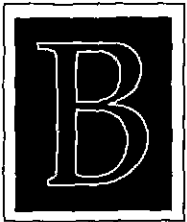
DIVERSION RATE	4.80 CFS
ACRES OF IRRIGATION	240.0 ACRES
DIVERSION VOLUME	4.0 AC-FT/AC
CONSUMPTIVE USE VOLUME	3.0 AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)?	B

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE	0.020 CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE	25.5 ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME	43.5 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE	57.9 ACRES

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406 1 5 2002



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

MAY 10 2002

Department of Water Resources

May 6, 2002

Kay Walker
Idaho Department of Water Resources
1301 North Orchard Street
Boise, ID 83706

Subject: Water Right Permit 36-08383 John and Ruth Beukers

Dear Kay:

As I indicated to you in my letter of February 14, 2002, I have reviewed the data and information relative to the beneficial use and proposed amendment to this permit. The data, which I reviewed includes:

1. Driller's logs for well #1 (A0003631) and well #2 (A0003630)
2. Water Measurement District flow measurements 1995-2001.
3. IDWR Dairy Water Use Questionnaire (as provided by J. Beukers)
4. IDWR Dairy Water Use Worksheet (from John Frietag, IDWR, 1/28/2002)
5. Beneficial Use Field Report (5/15/1996)
6. IDWR Dairy Water Use Worksheet (by K. Walker, 2/5/2002)
7. Proposed Application for Amendment
8. Application for permit (12/15/1989)

In addition, I visited the dairy on March 13, 2002 at which time I measured the static water levels and pumping levels for both wells, observed the flow meters in each well and the frequency of operation of each well.

Using the IDWR Dairy Water Use Worksheet provided by John Frietag of the Twin Falls IDWR office, I calculated the estimated water requirements for the dairy operation as described in the IDWR Dairy Water Use Questionnaire which was provided John Beukers and for which you have a copy. This questionnaire indicated there were 2000 milking cows and 800 dry cows on the dairy. I also calculated the estimated water requirements for the dairy using the Brockway Engineering Livestock Confinement Operations Water Requirements and Consumptive Use Worksheet using the same data.

The beneficial use field report indicates that the discharge capacity of the two wells was estimated from estimated static water levels and an estimated drawdown of 25 feet in each well as per the IDWR dairy worksheet with a resulting lift of 200 feet in well #1 and 175 feet in well #2. This analysis

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
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IDAHO 83301

208•736•8543

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AUG 15 2002

indicated a theoretical flow rate of .32 cfs for Well #1 and 0.35 cfs for Well #2. On March 13, 2002, I measured the static and pumping water levels in each well and found that the drawdown was less than 1.0 feet in both wells with pumping levels of 174.74 ft below top of casing in well #1 and 170.92 feet below the top of casing in well #2. I was not able to determine whether the wells were discharging at full capacity during the March 13 visit, however, Well # 1 appeared to be running continuously and well # 2 was cycling about every 30 seconds. The estimated discharge from the IDWR worksheet appears to be reasonable compared to other facilities and the recommended amended discharge of 0.67 cfs (300.7 gpm) for this facility is reasonable.

However, the recommended maximum diversion volume of 145 af/a is considerably lower than expected, considerably lower than any water requirements estimating procedures, and significantly lower than recent measured water use. The Application for Permit indicates that the use of the water permit for the "new dairy barn" and "future planned expansion." The information in the IDWR Dairy Water Use Questionnaire recently completed by John Beukers reflects the contemplated use anticipated in the application. The Permit, as issued, includes no annual volume or conditions on number of animals.

Using the IDWR Dairy Water Use Worksheet and data from the IDWR Dairy Water Use Questionnaire, the calculated stockwater volume is 81.3 af/a and the commercial volume is 122.4 af/a for a total of 203.7 af/a. Similarly, using the Brockway Engineering LCO Water Requirements Worksheet, the stockwater volume is 84.7 af/a and the commercial volume is 164.9 af/a for a total of 249.6 af/a.

The POD data from the Water Measurement District indicates data from 1995 through 2001 with meter calibrations periodically during that period. A review of the data and site visit notes indicates that the most reasonable estimate of water use would be for the period 1998 through 2001. This is based on notes, which indicate that reasonable calibrations were obtained for the meter in Well #1 only for 1999 and 2001. Based on this data, the average annual water use for 1998-2001 for Well #1 was 163.1 af/a and for well #2 was 55.4 af/a for a total of 218.6 af/a.

Our experience has been that estimates of water requirements using the IDWR Dairy Water Use Worksheet or the Brockway Engineering LCO Water Requirements Worksheet may under estimate the actual water requirements, especially for dairies, which utilize flush systems as in the Beuker dairy.

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AUG 15 2002

Based on this analysis, I believe that a reasonable annual volume for this dairy would be 230 af/a, which would allow for abnormally high water use years as compared to the 1998-2001 period.

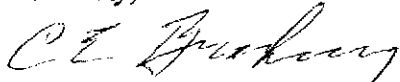
I am therefore recommending the Beukers that the proposed Application for Amendment be approved with the place of use as proposed, the rates of diversion as proposed, but that the annual volumes should be:

Domestic	1.2 AF
Stockwater	78 AF
Commercial	152 AF
Total	231.2 AF

I believe these volumes more accurately reflect the water requirements for this dairy and accurately reflect the intention of the Beukers as indicated in the application for permit for the "new dairy barn" and "future planned expansion"

Please let me know you thoughts on these recommendations.

Sincerely,



Charles E. Brockway P.E., PhD.

Enclosures:

Cc: John & Ruth Beukers
Rob Williams

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MAR 15 2002

FILE NUMBER Data Compiled by Brockway Engineering, Beukers Dairy 36-08962
 REVIEWER CES 02/15/2002 Based on data provided by J. Beukers to IDWR on "Daily Water Use Worksheet"
 IDWR Water Use Worksheet obtained from John Fretag, 01/28/2002
 DAIRIES: WATER USE WORKSHEET

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE 2000
 NUMBER OF DRY CATTLE 800
 NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS 0
 3-4 MONTHS 0
 5-8 MONTHS 0
 9-12 MONTHS 0
 13-15 MONTHS 0
 16-24 MONTHS 0
 ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF
 SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS 3
 IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN 50
 NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) 5.00
 OPERATION TIME OF SPRINKLERS (MIN/DAY) 350
 NUMBER OF MILKINGS PER DAY 3
 AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) 75
 HOURS PER DAY PUMP OPERATES FOR STOCKWATER USE 24.0
 HOURS PER DAY PUMP OPERATES FOR COMMERCIAL USE 24.0
 IS RECYCLED WATER USED TO FLUSH MILKHOUSE AND PARLOR FLOORS? no
 IS RECYCLED WATER USED TO WASH COWS? yes
 IS A PLATE COOLER USED? yes
 IS RECYCLED WATER USED FOR PLATE COOLER? (IF NO PLATE COOLER,
 LEAVE BLANK) no
 IF CORRAL MISTERS ARE USED: NUMBER OF MISTERS IN HOLDING PEN
 NOZZLE DISCHARGE (GPM)
 OPERATION TIME OF MISTERS (MIN/DAY)
 DAYS PER YEAR MISTERS ARE USED

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP)	15.00	15.00	0.00	0.00	0.00
LIFT (FT)	174.40	170.00	0	0	0
DISCHARGE PRESSURE (PSI)	0.00	0.00	0	0	0
FRICTION LOSSES (FT)	0.00	0.00	0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES	0.00	0.00	0.0	0.0	0.0

CALCULATIONS

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
THEORETICAL FLOW RATE (CFS) *	0.53	0.54	0.00	0.00	0.00
DIVERSION VOLUME (AF) **	0.0	0.0	0.0	0.0	0.0

* PUMP EFFICIENCY WAS ASSUMED TO BE 70%.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
 THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER
 MILKING CATTLE (BASED ON MILK PRODUCTION) 0.11
 DRY CATTLE @17.0 GPD/HD 0.02
 REPLACEMENT CATTLE 0.00
 TOTAL 0.13
 COMMERCIAL
 TOTAL 0.17
 TOTAL DIVERSION RATE 0.30

DIVERSION VOLUME (AF):

STOCKWATER
 MILKING CATTLE 69.2
 DRY CATTLE 12.1
 REPLACEMENT CATTLE 0.0
 TOTAL 81.3
 COMMERCIAL
 WASHING OF BULK TANK AND RELATED EQUIPMENT 0.6
 BACKFLUSH 3.4
 PARLOR/MILKHOUSE/HOLDING PEN CLEANUP 3.0
 CATTLE WASHING BASED UPON METHOD OF WASHING 100.8
 PLATE COOLER 17.0
 CORRAL MISTERS 0.0
 TOTAL 122.4
 TOTAL DIVERSION VOLUME 203.7

CONSUMPTIVE USE VOLUME (AF)(assuming 100% consumptive):

STOCKWATER 81.3
 COMMERCIAL 122.4
 TOTAL CONSUMPTIVE USE 203.7

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

	CFS	ACRES
DIVERSION RATE		
ACRES OF IRRIGATION		
DIVERSION VOLUME		AC-FT/AC
CONSUMPTIVE USE VOLUME		AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)?		

CALCULATIONS

	#DIV/AC	CFS/AC
IRRIGATION DIVERSION RATE PER ACRE		
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE	#DIV/AC	ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME	#DIV/AC	ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE	#DIV/AC	ACRES

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AUG 15 2002

Livestock Confinement Operations

Water Requirements and Consumptive Use Worksheet

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PRELIMINARY

COMPLETE BLUE HIGHLIGHTED SECTIONS ONLY

Prepared for: Beukers Dairy-Home #1
Gooding County

Revision: 9801
Run Date: 2/18/02

Remarks: Date from IDWR Dairy Water Use Questionnaire-provided by J. Beukers

Herd Information - User Input

Number of milking cows 2000 Breed: Large
Number of dry cows 800
Number of other adult dry animals 0

Calves at age: Heifers at age:
1 month 0 5 months 0
2 months 0 15 - 18 months 0
3 months 0 18 - 24 months 0
4 months 0

ANIMAL INFORMATION

Use defaults or enter values if known

Average body weight 1400 lbs Nearest weather station Jerome
Milk fat percentage 3.5 % Number of milkings/day 3
Average days dry 60
Annual milk yield per animal 21000 lbs/year Check: Total herd size based on days dry 4867
Percent dry matter in ration 90 % HERD SIZE NOT CONSISTENT WITH DAYS DRY

Lagoon Information - User Input

Lagoon Number	Top width	Top length	SS (h:v)	Max depth	Average depth factor	% days with water	Top Area	Bottom Area	Average Area
1	400	525	2	8	0.5	100	210000	195456	202728
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
TOTAL ACRES							4.82	4.49	4.65

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Facility Information - User Input

	Holding Pen 1	Holding Pen 2
Holding pen active	1	0 (0 = not used or nonexistent)
Number of sprinklers in pen	50	0
Average line pressure	40	60 psi
Sprinkler nozzle size - primary	5/32	5/32 inches
Sprinkler nozzle size - secondary	3/32	0 (enter 0 for single-nozzle sprinklers)
Daily operation time of sprinklers	360	0 minutes
Percent of days per year cows are washed	100	0 %
Number of free stalls	0	
Length of each free stall	1000 feet	
Width of each free stall	50 feet	
Is the feeding area flushed to lagoon?	No	
Is this housing area flushed to lagoon?	No	
	Barn	Feeding Housing
Flushing recycle rate	0	0 0

CLEANING / FLUSHING VOLUMES

Use defaults or enter manufacturer volumes

Cleaning parlor floor	8300 gal	Cleaning pipeline	200 gal
Cleaning milkroom	100 gal	Cleaning equipment	50 gal
Cleaning bulk tank	150 gal		
Additional flush of holding pen (opt.)	5000 gal		

Land Application Information - User Input

Type of system	Center Pivot
Predominant cropping	Alfalfa
Percent of waste water which goes to meet crop irrigation requirement	90 %

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01/15/2002

Stockwater Component

Drinking Water Calculation for Lactating Cows

4% fat-corrected milk yield	19425 lbs/year
Daily average FCM yield	63.69 lbs/day
Daily average milk yield	68.85 lbs/day
Estimated DMI	46.95 lbs/day

METHOD 1: Kertz

Estimated total water intake (TWI)	277.1 lbs/day or 33.2 gal/day
As-fed feed daily intake	52.2 as-fed lb/day
Water content of feed	5.22 lb/day in feed
Drinking water intake	271.9 lb/day or 32.6 gal/day
Drinking water requirement for lactating cows	65200 gal/day 73.0 ac-ft/year

METHOD 2: Holter and Urban

Regression equation with DMI, milk production, and dry matter %

Drinking water intake	99.5 liters/day 26.3 gal/day
	52590 gal/day 58.9 ac-ft/year

Maximum drinking water requirement 73.0 ac-ft/year

Drinking Water Calculation for Dry Cows

Estimated DMI	26.6 lbs/day
Average drinking water intake	13 gal/day

Average drinking water requirement 10400 gal/day
11.7 ac-ft/year

Drinking Water Calculation for Replacement Herd (Calves and Heifers)

Age	GPD	Ac-Ft/year
1 mo	0	0.00
2 mo	0	0.00
3 mo	0	0.00
4 mo	0	0.00
5 mo	0	0.00
15-18 mo	0	0.00
18-24 mo	0	0.00
Drinking water requirement for replacement herd	0 gpd	0.00 ac-ft/year

TOTAL STOCKWATER COMPONENT 84.7 AC-FT/YEAR

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Commercial Component

Milking Parlor Water Usage Calculation

Volume needed *per milking* in each parlor for:

Cleaning parlor floor	8300 gal	Cleaning pipeline	200 gal
Cleaning milkroom	100 gal	Cleaning equipment	50 gal
Cleaning bulk tank	150 gal	Cleaning cows	1000 gal

Total milking parlor volume	29400 gal/day
Second milking parlor volume	0 gal/day
Recycled water	0 gal/day
	32.93 ac-ft/year

Holding Pen Water Usage Calculation

	Pen 1	Pen 2
Output of primary nozzle	4.49	5.5 gpm
Output of secondary nozzle	1.61	0 gpm
Holding pen flushing volume	3000	0 gal
Additional flush volume	5000	0 gal
Sprinkler volume	109800	0 gal/day
Total holding pen volume	117800	0 gal/day
Recycled water	0	0 gal/day

131.96 ac-ft/year

Other Flushing Water Calculation

Daily volume needed for:

Feeding area flushing	0 gal/day
Housing area flushing	0 gal/day

Total other flushing volume	0 gal/day
Recycled water	0
	0.00 ac-ft/year

TOTAL COMMERCIAL COMPONENT 164.9 AC-FT/YEAR

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Consumptive Use Calculation

A. Lagoon Evaporation

Annual reference ET (Allen & Brockway , 1983)	4.51 feet	
Annual open water coeff (Kohler Nordenson Fox)	0.90	
Annual open water (lagoon) evaporation	4.06 feet	
Manual override: Input annual lagoon evap	feet	
Total lagoon water surface area at full	210000 sq. ft.	
Total lagoon bottom area	195456 sq. ft.	
Average surface area when water is present	202728 sq. ft. =	4.65 ac
Total lagoon evaporation	18.91 ac-ft/year	

B. Animal usage: milk, metabolism, and excretion loss

	Milking	Dry
Waste excretion volume per cow	1.3	1.3 ft ³ /day/1000lb
Water content	87.5	88.4 %
Total water volume in excrement	23824	9628 gal/day
Percent of excrement flushed to lagoons	15 % (based on areas which are flushed)	
Consumptive use (evap.) of water in excrement	85 %	
Consumptive use (evap.) volume	28434 gal/day	
Excrement c.u. attributable to drinking water	27898 gal/day	
Total milk production - assume 100% leaves site	137705 lbs/day or	16511 gal/day
Water content of milk	14365 gal/day	
Water content attributable to drinking water	14094 gal/day	
Water use for animal metabolism	29035 gal/day	
Metabolism water attributable to drinking water	28488 gal/day	
Consumptive use - replacement herd (100%)	0 gal/day	
Total animal consumptive use from drinking water	70481 gal/day or	79.0 ac-ft/year
Percent of drinking water intake	93.2 %	

C. Parlor/holding pen cleanup

Average sprinkler washing system evap loss	2 %	
Free stall total area	0 sq. ft. =	0.00 acres
Length of time free stall concrete is wet	1 hr/day	
Average evaporation from wet concrete	0.15 in./day	
Sprinkler system loss volume	2.46 ac-ft/year	
Free stall evaporation volume	0.00 ac-ft/year	
Total cleanup loss	2.46 ac-ft/year	

D. Land application site

Crop evapotranspiration	3.29 ac-ft/ac/year	
Irrigation diversion volume	4.11 ac-ft/ac/year	
System efficiency	80 %	
Waste water volume to lagoons	168.2 ac-ft/year	
Waste water volume available for land application	149.3 ac-ft/year	
Total crop consumptive use of waste water	107.5 ac-ft/year	

Summary

Drinking Water

Milking herd	73.0
Non-milking herd (dry cows)	11.7
Replacement herd (calves and heifers)	0.0

Total drinking water volume	84.7 ac-ft/year
-----------------------------	-----------------

Commercial

Milking parlor	32.93
Holding pen and cleanup	132.0
Other flushing water	0.00

Total commercial volume	164.9 ac-ft/year
-------------------------	------------------

TOTAL DIVERSION VOLUME REQUIREMENT	249.6 AC-FT/YR
------------------------------------	----------------

Consumptive Use

Lagoon evaporation	18.91
Animal milk, excretion, & metabolism	79.0
Parlor and holding pen cleanup	2.46
Crop consumptive use on land application	107.5

Total consumptive use	207.8 ac-ft/year
-----------------------	------------------

Percent of diversion volume consumed	83.3 %
--------------------------------------	--------

Annual crop consumptive use - IDWR allowable	3.0 afa
--	---------

Equivalent irrigated acres	69.3 acres
----------------------------	------------

Diversion volume to acres conversion factor	3.60 ac-ft/ac
---	---------------

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APR 15 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

March 13, 2002

JOHN BEUKERS
RUTH BEUKERS
3257 S 2400 E
JEROME ID 83338

NORTHWEST FARM CREDIT SERVICES FLCA
PO BOX 5059
TWIN FALLS ID 83303-5059

RE: Water Right Permit 36-08382

Dear Permit Holder(s):

I previously forwarded to you an Application for Amendment so that you could amend your permit to depict your water right as it has actually been developed.

As of this date, I have not received this amendment. If I do not receive the amendment within 14 days, a Water Right License will be issued for less than could have been allowed. In case the amendment form I sent you has been misplaced, a new one is enclosed. Please note that the filing fee for this amendment is \$50.00.

If you have any questions regarding this matter, please call me at 208-327-7944.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

KW:klt

Enclosure

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AUG 15 2002

*Chuck Brockway
called on 3/15 -
Needs 2 additional
weeks - put this
on call up for
4/17/02 - kw
4/19/02 - left msg.
for Brockway.
no response.
kw*



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

TRANSMITTAL COVER SHEET

FAX NUMBER: (208) 327-5400

DATE: 2-22-2002

TO: Chuck E. Brockway FROM: Kay @ IDWR
FAX: 208-736-8506 327-7944

DOCUMENT DESCRIPTION: Copy of App. for
Permit & Permit as issued -

COVER SHEET + 4 PAGES

CONTACT: Kay IF YOU DO NOT RECEIVE ALL THE PAGES.

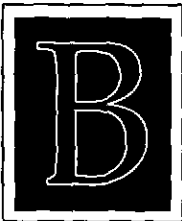
2-22-2002
called Chuck E. Brockway
advised him of number
of cows on permit so
he could evaluate
system with same
criteria as I did -
faxed permit ^{to him} this AM kw

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AUG 15 2002

RECEIVED

FEB 21 2002

Department of Water Resources



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

February 18, 2002

Kay Walker
Idaho Department of Water Resources
P.O. Box 83720
1301 North Orchard Street
Boise, ID 83706-0098

Subject: Water Right Permit No 36-08382- John and Ruth Beukers

Dear Kay:

John Beukers asked me to review the file and correspondence relative to licensing of the above permit.

On January 25 you had requested additional information to aid in reviewing the permit for licensing; in particular to assist in determining the rate and volume of water needed for the dairy operation.

John Beukers completed the "Dairy Water Use Questionnaire" and supplied information on the location of waste water used.

On February 5, 2002, you transmitted a proposed amendment form which indicated that the places of use were developed differently than described on the permit. However, the amendment also proposed to change the rate of diversion from the permitted amount and to include annual volumes of use which were not included on the approved permit. Particularly, the rate of diversion for the commercial component of the right was decreased from 1.0 cfs to 0.67 cfs. Also, the annual volumes for stockwater and commercial use on the proposed amendment were 30.7 AF and 113.0 AF.

As a preliminary evaluation, and based on the "Dairy Water Use Questionnaire" data, I ran the IDWR Dairy Water Use Worksheet with the numbers of milking cows, dry cows and dairy operation input. The output from the Dairy Water Use Worksheet indicates that a reasonable annual volume for stockwater is 81.3 AF and for commercial uses is 122.4 AF for a total of 203.7 AF. In addition, I ran the Brockway Engineering LCO Water Requirements and Consumptive Use Worksheet using the same data from the Dairy Water Use Questionnaire and calculated the annual volume for stockwater and commercial. This preliminary analysis indicated an annual volume requirement of 84.9 AF for stockwater and 164.9 AF for commercial for a total of 249.6 AF. These estimated volumes are considerably below the proposed amended total volume of 143.7 AF.

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AUG 15 2002

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506

In our telephone conversation of February 15, 2002, you indicated that the diversion rate proposed in the amendment was estimated from the pump horsepower, estimated pumping lift, and estimated efficiency of the pump. Apparently the field examiner had determined that there were two 15 hp pumps in the two wells and that the drawdown in the wells was estimated at 25 feet.

Since the proposed diversion rate and annual volumes are considerably lower than expected for a dairy of this size, I am requesting, on behalf of John and Ruth Beukers, that any further processing of the permit be stayed until such time as the field exam data can be reviewed and/or additional measurements of water use be made and evaluated.

Thank you for agreeing to send the file on the field exam. Pending receipt of those documents, I will review them and advise you of any additional evaluations which have to be done. John and Ruth are anxious to get this permit licensed and I will proceed as fast as possible to complete my evaluation and advise you of such.

Sincerely,



Charles E. Brockway P.E. PhD.

cc: John Beukers
Rob Williams

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AUG 15 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

February 5, 2002

JOHN BEUKERS
RUTH BEUKERS
3257 S 2400 E
JEROME ID 83338

NORTHWEST FARM CREDIT SERVICES FLCA
PO BOX 5059
TWIN FALLS ID 83303-5059

RE: Water Right Permit No. 36-08382

Dear Permit Holders:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

✓ **Place(s) of Use**

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$50.00 filing fee within 14 days.

If you have any questions, please call me at 208-327-7944.

Sincerely,

Kay Walker
KAY WALKER
Sr. Water Resource Agent

Enclosure

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AUG 15 2002

*2/15/02
Chuck Brockway
called - Mr. Beukers
asked him to
review proposed
license - sent
Chuck copy of
exam, WMD info
& my diary
worksheet.
KW*

LICENSE REVIEW CHECKLIST

Permit No. 36-8382

Date: 1-24-2002 Reviewer: Kay Walker

topo BB21
BB22

Change/OK

Name/Address

add Ruth pk assignment -

Source

OK

Does change clarify original intended source? If no, void permit.

Point of Diversion:

OK

Change (P39/P49) Add (P45/P44) Feds (P40)

Place of Use

add land application place of use

W32 (multiple in 1/4/1/4)
W36 (overlap)
W59 (subdivision description)

Change (P41/P49) Add (P41/P44) Feds (P43)

W60 (subdivision description)
W27 (ppu acre limit)

Overlaps: Right(s): 36-10415, 36-10416
File reviewed _____ Profile reports printed _____

P/D & P/U amend (P37) Feds (P48)

Rate of Diversion:

Permitted rate 1.0 cfs

Fee Limit 1.0 cfs

Measured _____ cfs

Theoretical 0.67 cfs

Recommended Total Diversion Rate 0.67

Season of Use per new Standards

Water Uses

OK Change (P46)

Irrigation 0.10 cfs 3 af

Stockwater 0.10 cfs 30.7 af

Domestic 0.04 cfs 1.2 af

Comm 0.37 cfs 113.0 af

Total 0.67 cfs 144.9 af

0.67 2,145.00

Irrigation - overlap(R58-R61, R62-R65, R66-R69)

supp. Gw (WB7/065/104)

overlap spec combined rts (W35)

<1 acre (W31)

Domestic (W01/wb5/070/071/075)

Power (W42 or W43/025/027/R22 or R23)

Fish (042)

Fire (077)

Water Quality (106/R07)

Payette - (W22/047/27A)

Stockwater for US (R37)

Volume Determination

_____ cfs x 1.9835 x _____ days = _____ af (vs) _____ acres x _____ (FHR) = _____ af

Remarks:

Additional Conditions

_____ Watermaster Control
_____ GW Measurement/Measuring Device
_____ Other
Trust R55 - remove 051)
Non-trust (048)

GW Dist? _____
Water Msmt. Dist? _____
Crit. GWMA? _____
GWMA? _____
Government Lots? _____

Advance Priority? yes

no

If yes, explain why below.

SRBA Claim?

NO

Adjust memo

Amend Letters

P87, S06

Second Amendment Notice

P44 S06

per phone conversation w/ John Benkers
2/8/02: he owns all the land waste
water is being applied to - tw

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	36 10048	LA VERN A MURPHY,	GROUND WATER	08S16E18																	0
Right	36 10172	LISA BELKERS, DAN BELKERS,	GROUND WATER	08S16E18	X														X		0
Right	36 10266	BOB A AND EMMA ROBINSON LIVING TRUST,	GROUND WATER	08S16E18		X															0
Right	36 10338	THOMAS R LUPER, JUANITA M LUPER,	GROUND WATER	08S16E18		X			X												0
Right	36 10338	THOMAS R LUPER, JUANITA M LUPER,	GROUND WATER	08S16E18					X												0
Right	36 10840	JEANNETTE THON, DAVID LEE THON,	GROUND WATER	08S16E18																	0
Right	36 10440	MAIGNE J BLACKMON, VERNIE F BLACKMON,	GROUND WATER	08S16E18		X													X		0
Right	36 10415	JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18													X				0
Right	36 10415	JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18													X				0
Right	36 10415	JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18													X				0
Right	36 10415	JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18													X				0
Right	36 10417	RUTH BELKERS, JOHN BELKERS,	GROUND WATER	08S16E18													X				0
Right	36 10450	GENE H THOMAS, ROHANNA THOMAS,	GROUND WATER	08S16E18							X									X	0
Right	36 10480	GENE H THOMAS, ROHANNA THOMAS,	GROUND WATER	08S16E18							X										0
Right	36 10480	JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18															X		0
Right	36 10708	SYLVEN J BAILEY,	GROUND WATER	08S16E18														X			0
Right	36 10708	SYLVEN J BAILEY,	GROUND WATER	08S16E18														X			0
Right	36 10713	LENNY MEYERS, BEVERLY MEYERS,	GROUND WATER	08S16E18	X																0
Right	36 10714	CHARLES F CHAPIN, JACQUELINE I CHAPIN,	GROUND WATER	08S16E18							X										0
Right	36 10752	OLETE O BLACK,	GROUND WATER	08S16E18															X		0
Right	36 10834	RONALD L LEE,	GROUND WATER	08S16E18		X															0
Right	36 10834	RONALD L LEE,	GROUND WATER	08S16E18		X															0
Right	36 10835	RONALD L LEE,	GROUND WATER	08S16E18	X																0
Right	36 10835	RONALD L LEE,	GROUND WATER	08S16E18	X																0
Right	36 10838	DONNA M HEGI, ROBERT A HEGI,	GROUND WATER	08S16E18															X		0
Right	36 10838	DONNA M HEGI, ROBERT A HEGI,	GROUND WATER	08S16E18																10	10
Right	36 10838	DONNA M HEGI, ROBERT A HEGI,	GROUND WATER	08S16E18															X		0
Right	36 11139	JAMES BURNIN JONES,	GROUND WATER	08S16E18											X						0
Right	36 11139	JAMES BURNIN JONES,	GROUND WATER	08S16E18											X						0
Right	36 11248	MARTIN RAY THURSTON,	GROUND WATER	08S16E18							X										0
Right	36 11248	MARTIN RAY THURSTON,	GROUND WATER	08S16E18							X										0
Right	36 E381	LA VERN A MURPHY,	GROUND WATER	08S16E18																	0
Right	36 E382	NORTHWEST FARM CREDIT SERVICES FLCA, JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18													X				3
Right	36 E382	NORTHWEST FARM CREDIT SERVICES FLCA, JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18													X				0
Right	36 E382	NORTHWEST FARM CREDIT SERVICES FLCA, JOHN BELKERS, RUTH BELKERS,	GROUND WATER	08S16E18		X	X	X				X	X				X			X	0
Right	1 18	NORTH SIDE CANAL CO,	SNAKE RIVER	08S16E18																	0
Right	1 212	TWIN FALLS NORTH SIDE LAND & WATER, NORTH SIDE CANAL CO,	SNAKE RIVER	08S16E18																	0
Right	1 213	NORTH SIDE CANAL CO, TWIN FALLS NORTH SIDE LAND & WATER CO,	SNAKE RIVER	08S16E18																	0
Right	1 215	TWIN FALLS NORTH SIDE LAND & WATER CO, NORTH SIDE CANAL CO,	SNAKE RIVER	08S16E18																	0
Right	1 220	TWIN FALLS NORTH SIDE LAND & WATER CO, NORTH SIDE CANAL CO,	SNAKE RIVER	08S16E18																	0
Right	1 6	NORTH SIDE CANAL CO,	SNAKE RIVER	08S16E18																	0

WMD**POD Data****08S 16E 18 NESE**

Legal Description	GPS Site ID	Diversion Name	Meas Option	POD
08S 16E 18 NESE	A0003630	DAIRY WELL #2		400576
Latitude 042:43:48.594		Longitude -114:37:05.568	GPS File K011018B	Flowmeter (8)
Comments FLOWMETER CHECK (BC 9/19/96);2 WELLS LOC. IN NESE S18, T8S R16E				

Flowmeter Data

Year	Date	Calibration Factor	Max CFS	Adj Max CFS	Acre-Ft	Adj Acre-Ft	Acre-Ft Qualif	Valid	Prefrd
2001	5/9/2001	0.99			54	53.46	MR	☐	☐
Comments Meter reader read Dec. to Dec. and these are the readings that were used.									
2000	9/19/1996	0.96			62.87	60.36	NM	☐	☐
Comments IDWR audit on 1-9-01 found that the meter read 875784. CRK 1-18-01.									
1999	9/19/1996	0.96			72.29	69.4	MR	☐	☐
Comments IDWR audit 1-5-00 read 695121x100 (GPM 2-3-00)									
1998	9/19/1996	0.96	0	0	39.98	38.38	MR	☐	☐
Comments									
1997	9/19/1996	0.96	0	0	55.8	53.57	MR	☐	☐
Comments									
1996	9/19/1996	0.96	0	0	36.48	35.02	MR	☐	☐
Comments									
1995	9/19/1996	0.96	0	0	1.4	1.344	PM	☐	☐
Comments FOLLOW-UP EXAM 9/19/96-METER HAD NOT BEEN OPERATING PROPERLY-SK									

Flowmeter Calibration

Calibration Date: 5/9/2001

Calibration Factor: 0.99

400576

Installed Meter	Standard Meter	Other well(s):
Meter Type: IMPELLER	Pipe Material: STEEL	
Manufacturer: GRAINLAND	Outside Diameter: 3.52	Other meter(s): ☐
Model: 400R	Wall Thickness: 0.202	Comments:
Serial Number: 17112	Upstream Straight: 3	
Rate Units: GPM	Downstream Straight: 2	
Rate Multiplier: 1	Meter Type: SONIC	
Volume Units: GAL	Measured Flow Units: GPM	
Volume Multiplier: 100	Measured Flow: 63.7	
Location: FAIR	Confidence: EXCL	
Indicated Flow: 64.1		

Changed: 5/9/2001

Calibration Date: 9/19/1996

Calibration Factor: 0.96

400576

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AUG 15 2002

Legal Description	GPS Site ID	Diversion Name	Meas Option	POD
Installed Meter Meter Type: IMPELLER Manufacturer: GRAINLAND Model: 400R Serial Number: 17112 Rate Units: GPM Rate Multiplier: 1 Volume Units: GAL Volume Multiplier: 100 Location: FAIR Indicated Flow: 24.7		Standard Meter Pipe Material: STEEL Outside Diameter: 3.52 Wall Thickness: 0.202 Upstream Straight: Downstream Straight: Meter Type: SONIC Measured Flow Units: GPM Measured Flow: 23.7 Confidence: GOOD		Other well(s): Other meter(s): ☐ Comments: Changed: 1/21/2000

Site Visits

Site Visit Date	Site Examiner	Reason	Change Date:
5/9/2001	CKNOWLES	Flowmeter Calibration	5/9/2001
Notes: This flow meter was reading about 9.5% high so I dialed it in a bit closer. (now at +.63%) Never did see flow drop below 35 GPM. Seem to be working ok.			
9/19/1996	BCONTOR	Flowmeter Calibration	
Notes: Flowmeter check and calibration on 1/10/96. Grainland i flowmeter installed on stock watering system. Pressure/flow i control valve installed, allowing pump to operate during very low i demand. During flows above 1 fps velocity, meter operated about i 20-50% high (couldn't get definite reading). When flow dropped i below 1 fps, grainland started to read below sonic meter. Below i 0.3-0.4 fps, grainland quit operating and recorded nothing. Could i not get final calibration on this meter due to these problems i (SKING 1/12/96). BCONTOR calibrated flowmeter 9/96 (SKING 3/97).			

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WMD

POD Data

08S 16E 18 NESE

Legal Description	GPS Site ID	Diversion Name	Meas Option	POD
08S 16E 18 NESE	A0003631	DAIRY WELL #1		401193
Latitude 042:43:47.867 Longitude -114:37:05.965 GPS File K011018C Flowmeter (8)				
Comments FLOWMETER CHECK (SKING 1/10/96);ADDED RECORD PER PERMIT REMARKS (				

Flowmeter Data

Year	Date	Calibration Factor	Max CFS	Adj Max CFS	Acre-Ft	Adj Acre-Ft	Acre-Ft Qualif	Valid	Prefrd
2001	5/9/2001	1.03			211.75	218.1	MR	☐	☐
	Comments Volume multiplier for this was turned in as .0001 and field work was done on 5/9/01 and showe								
2000	4/15/1999	1			123.55	123.55	MR	☐	☐
	Comments Volume multiplier should be by .001. IDWR audit was done on 1-09-01 and was 314303x.001.								
1999	4/15/1999	1			160.4	160.4	MR	☐	☐
	Comments adjusted ac ft for the total year based on two separate meters during the year 1-21-00 GPM. S								
1998	9/25/1996	0.92			163.69	150.59	MR	☐	☐
	Comments								
1997	9/25/1996	0.92	0	0	128.6	118.3	MR	☐	☐
	Comments								
1996	9/25/1996	0.92	0	0	109.7	100.9	PM	☐	☐
	Comments								
1995	9/25/1996	0.92	0	0	1.1	1.1	PM	☐	☐
	Comments FOLLOW-UP EXAM DONE 10/2/96 AS METER WAS NOT WORKING PREVIOUSLY								

Flowmeter Calibration

Calibration Date: 5/9/2001

Calibration Factor: 1.03

401193

Installed Meter	Standard Meter	Other well(s):
Meter Type: IMPELLER	Pipe Material: STEEL	
Manufacturer: GRAINLAND	Outside Diameter: 3.52	Other meter(s): ☐
Model: 400B	Wall Thickness: 0.202	Comments:
Serial Number: 17107	Upstream Straight: 5	A new meter was installed in early 1999. Must have put better plumbing in. I adjusted meter before doing a reading. It was reading about 44% high. CRK 5-09-01
Rate Units: GPM	Downstream Straight: 3	
Rate Multiplier: 1	Meter Type: SONIC	
Volume Units: AF	Measured Flow Units: GPM	
Volume Multiplier: 0.001	Measured Flow: 111.7	
Location: GOOD	Confidence: GOOD	
Indicated Flow: 108.8		

Changed: 5/9/2001

Calibration Date: 4/15/1999

Calibration Factor:

401193

Legal Description	GPS Site ID	Diversion Name	Meas Option	POD
Installed Meter Meter Type: IMPELLER Manufacturer: GRAINLAND Model: 400B Serial Number: Rate Units: GPM Rate Multiplier: 1 Volume Units: AF Volume Multiplier: 0.001 Location: Indicated Flow: 		Standard Meter Pipe Material: STEEL Outside Diameter: 3.52 Wall Thickness: 0.202 Upstream Straight: Downstream Straight: Meter Type: SONIC Measured Flow Units: Measured Flow: Confidence: 		Other well(s): Other meter(s): ☐ Comments: Changed: 1/21/2000
Calibration Date: 9/25/1996		Calibration Factor: 0.92		401193

Installed Meter Meter Type: IMPELLER Manufacturer: GRAINLAND Model: 400B Serial Number: 17113 Rate Units: GPM Rate Multiplier: 1 Volume Units: AF Volume Multiplier: 0.001 Location: POOR Indicated Flow: 39.2		Standard Meter Pipe Material: STEEL Outside Diameter: 3.52 Wall Thickness: 0.202 Upstream Straight: Downstream Straight: Meter Type: SONIC Measured Flow Units: GPM Measured Flow: 36 Confidence: FAIR		Other well(s): Other meter(s): ☐ Comments: Changed: 1/21/2000
---	--	---	--	---

Site Visits

Site Visit Date	Site Examiner	Reason	Change Date:
5/9/2001	CKNOWLES	Flowmeter Calibration	5/9/2001
Notes: A new meter has been installed and seems to be in a better location. It was reading about 44% high so I dialed it in and got it to about -2.5% before the fuji went dead. Should do a better job now.			
9/25/1996	BCONTOR	Flowmeter Calibration	
Notes: Flowmeter check on 1/10/96. The grainland flowmeter is installed in 3" galvanized steel pipe. Water flowing downward in pipe, from ceiling to floor. The grainland was not registering any flow. Sonic meter read 66 gpm (about 3 fps velocity), so the grainland should have been working. Per owner's records of totalizer, the meter appears to operate sporadically, because the totalizer reading has increased over the months. He has never noticed a flow rate display. I think that the meter may be working at times, but not all the time. The totalizer reading did not change at all during my visit (SKING 1/12/96). BCONTOR checked flowmeter 9/96 (SKING 3/97).			

MICROFILMED

FILE NUMBER 36-08382
REVIEWER lrv
DATE February 5, 2002

DAIRIES: WATER USE WORKSHEET

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE 800
NUMBER OF DRY CATTLE 200
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS
3-4 MONTHS
5-8 MONTHS
9-12 MONTHS
13-15 MONTHS
16-24 MONTHS

ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING,
OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS 3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN 50
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) 5.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY) 360
NUMBER OF MILKINGS PER DAY 3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG 15.70 LBS) 75
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES? Y
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN? 12.0
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN? 12.0
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN?
IS A PLATE COOLER USED? Y
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE
COOLER, LEAVE BLANK) N
ARE CORRAL MISTERS USED IN HOLDING PEN? N
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN,
ASSUME 1 MISTER FOR EVERY 5 COWS) 400
NOZZLE DISCHARGE (USE 5 GPH IF UNKNOWN) 5.00
SPRAY INTERVAL (EX - 2 MIN ON EVERY 5 MIN = 2/5) 2/5
OPERATION TIME OF MISTERS (HRS/DAY) 10
DAYS PER YEAR MISTERS ARE USED 45
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT
INDIVIDUALLY CALCULATED BELOW (EX - RESTROOMS, WASHING MACHINES) 0

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER
MILKING CATTLE (BASED ON MILK PRODUCTION) 0.09
DRY CATTLE @17.0 GPD/HD 0.01
REPLACEMENT CATTLE 0.00
TOTAL 0.10

COMMERCIAL
TOTAL 0.31

TOTAL DIVERSION RATE 0.41

DIVERSION VOLUME (AFA):

STOCKWATER
MILKING CATTLE 27.7
DRY CATTLE 3.0
REPLACEMENT CATTLE 0.0
TOTAL 30.7

COMMERCIAL
WASHING OF BULK TANK AND RELATED EQUIPMENT 0.6
BACKFLUSH 1.3
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP 3.0
CATTLE WASHING BASED UPON METHOD OF WASHING 100.8
PLATE COOLER 7.2
CORRAL MISTERS 0.0
MISCELLANEOUS USES 0.0
TOTAL 113.0

TOTAL DIVERSION VOLUME 143.7

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER 30.7
COMMERCIAL 113.0

TOTAL CONSUMPTIVE USE 143.7

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP)	15.00	15.00	0.00	0.00	0.00
PUMP EFFICIENCY (%)	70	70	70	70	70
LIFT (FT)	200	175	0	0	0
DISCHARGE PRESSURE (PSI)	40	40	0	0	0
FRICTION LOSSES (FT)			0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES	12.0	12.0	0.0	0.0	0.0

CALCULATIONS

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
THEORETICAL FLOW RATE (CFS) *	0.32	0.35	0.00	0.00	0.00
DIVERSION VOLUME (AFA) **	114.4	125.1	0.0	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

* used static water levels
examiner found plus
added 25' for lift.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

DIVERSION RATE	4.80 CFS
ACRES OF IRRIGATION	240.0 ACRES
DIVERSION VOLUME	4.0 AC-FT/AC
CONSUMPTIVE USE VOLUME	3.0 AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)? B	

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE	0.020 CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE	20.5 ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME	35.9 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE	47.9 ACRES

Permit 36-08382
John Beukers

FEB - 1 2002

DAIRY WATER USE QUESTIONNAIRE

NUMBER OF MILKING CATTLE	2000
NUMBER OF DRY CATTLE	700
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS	
3-4 MONTHS	
5-8 MONTHS	
9-12 MONTHS	
13-15 MONTHS	
16-24 MONTHS	
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS	3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN	50
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN)	5.0
OPERATION TIME OF SPRINKLERS (MIN/DAY)	360 min
NUMBER OF MILKINGS PER DAY	3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.)	75
HOURS PER DAY PUMP OPERATES FOR STOCKWATER USE	24H On demand
HOURS PER DAY PUMP OPERATES FOR COMMERCIAL USE	24
IS RECYCLED WATER USED TO FLUSH MILKHOUSE AND PARLOR FLOORS?	No
IS RECYCLED WATER USED TO WASH COWS?	Yes
IS A PLATE COOLER USED?	Yes
IS RECYCLED WATER USED FOR PLATE COOLER? (IF NO PLATE COOLER, LEAVE BLANK)	No
IF CORRAL MISTERS ARE USED: NUMBER OF MISTERS IN HOLDING PEN	
NOZZLE DISCHARGE (GPM)	
OPERATION TIME OF MISTERS (MIN/DAY)	
DAYS PER YEAR MISTERS ARE USED	

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AUG 15 2002

NIAGARA SPRINGS QUADRANGLE
IDAHO

7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Topo BB21

Topo BB22

MOUNTAIN HOME 64 MI.
3.3 MI. TO IDAHO 46 (WENDELL EXIT)

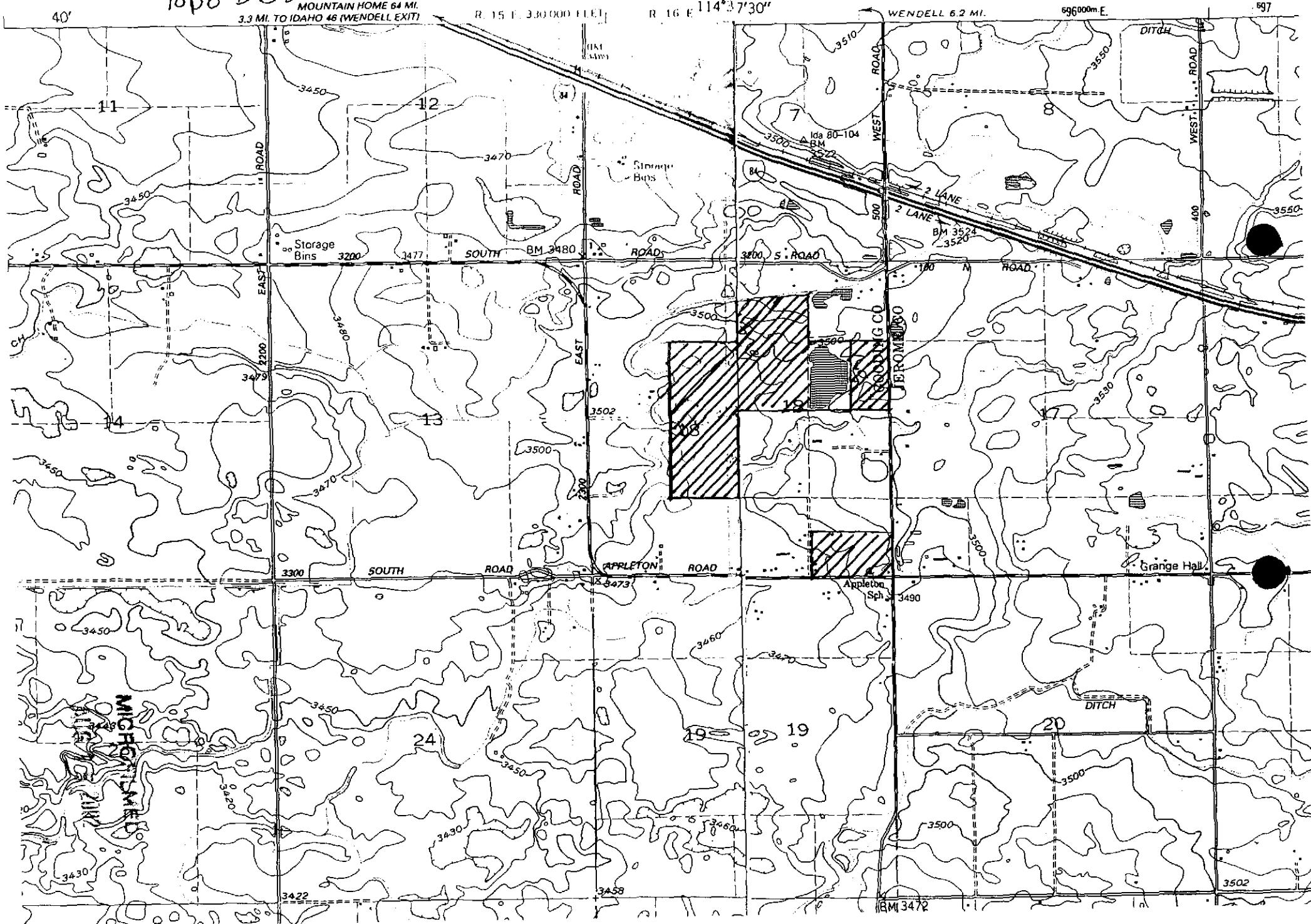
R 15 E 330000 FEET

R 16 E 114°37'30"

WENDELL 6.2 MI.

696000m E

897





State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

January 25, 2002

JOHN & RUTH BEUKERS
3257 S 2400 E
JEROME ID 83338

NORTHWEST FARM CREDIT SERVICES FLCA
PO BOX 5059
TWIN FALLS ID 83303-5059

RE: Permit No. 36-08382

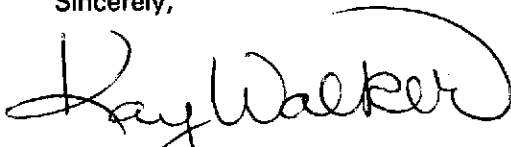
Dear Permit Holders:

Permit 36-08382 is currently being reviewed for licensing. In review of the field examination submitted we find that we need more information in order to determine the rate and volume of water needed for your dairy operation. Please complete the enclosed "Dairy Water Use Questionnaire" and return it to this office at your earliest convenience.

Since you received your permit, the Department has taken a position that it is necessary to clarify the place of use for land application of waste from dairies as part of the water right. We would like to give you the opportunity to include the description of the place of use for this waste water on your water right license. Please submit information, by 40-acre tract descriptions, that describes where the waste water is used and the ownership of the lands that this water is applied. Enclosed, for your convenience, is a copy of a topographical map that you can use to identify these lands. Please mark on the map where your waste water is being applied. If land application is found to be in tracts not included on your permit, we will request that you amend your permit before licensing to include this information on the license. If the waste water is not land applied, please advise us by telephone, e-mail (kwalker@idwr.state.id.us) or a letter.

Please submit the requested information within the next 14 days so we can proceed with licensing your permit. If you have any questions, please feel free to contact me at (208) 327-7944.

Sincerely,



KAY WALKER
Sr. Water Resource Agent

KW:k
Enclosures

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AUG 15 2002

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
MAY 21 1996
Department of Water Resources

A. GENERAL INFORMATION

Permit No. 36-08382

1. Owner: John Beukers Phone No. (208) 324-8618

Current Address: 3257 South 2400 East

2. Accompanied by: John EXAM DATE: 04-08-1996

Address: Same Phone No.: Same

Relationship to Permit Holder: Owner

3. Source: Groundwater tributary to None

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
#1		ne	ne	se	18	08s	16e	Gooding	ASCS Aerial 660 Photos w/ enhancement slides.
#2		se	ne	se	18	08s	16e	Gooding	ASCS Aerial 660 Photos w/ enhancement slides.

2. Place(s) of Use:

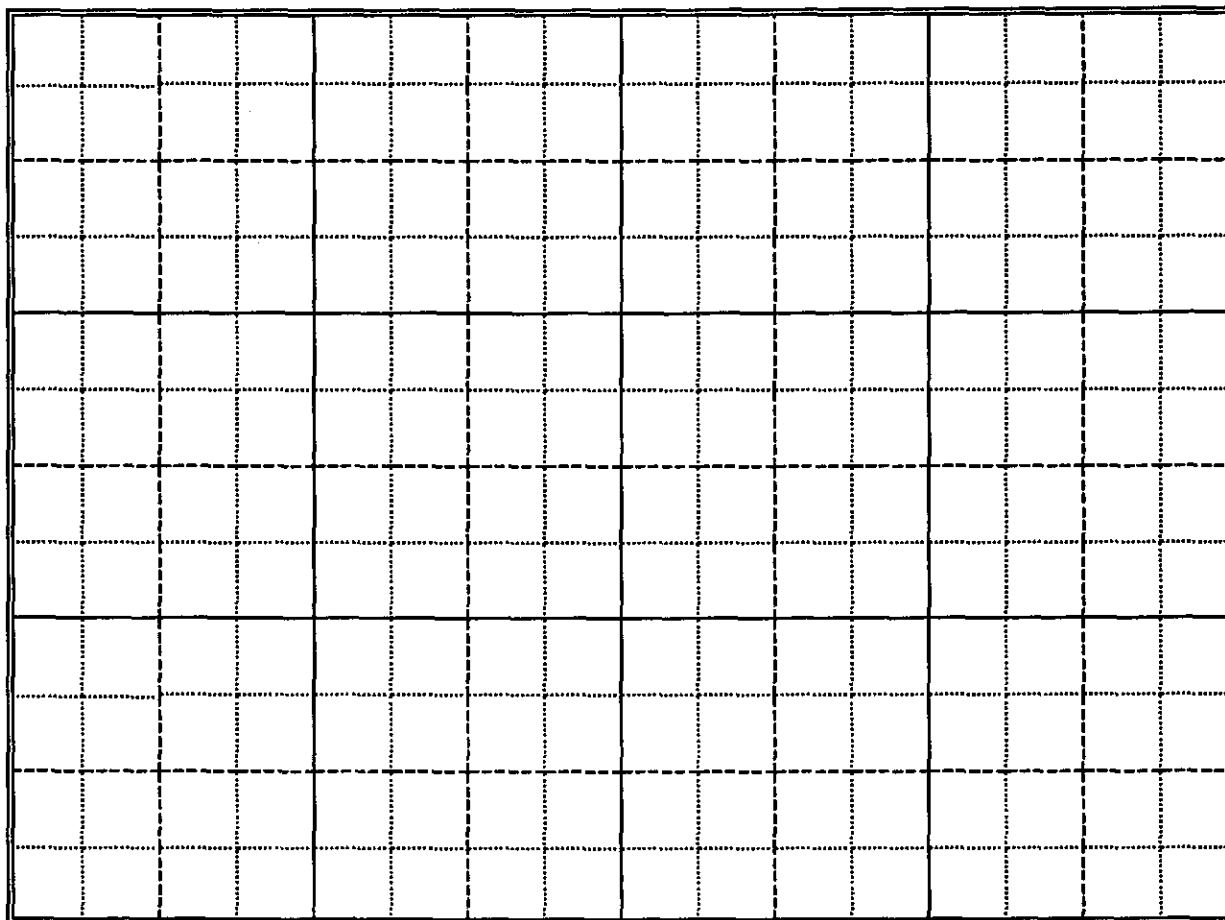
Indicate Method of Determination

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08s	16e	18													D				
															S				
															C				

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = Not to scale

☒ Copy of USGS 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)

☒ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well #1	General Electric	15	Unknown	Red Jacket	Unknown (Submersible)
Well #2	General Electric	15	Unknown	Red Jacket	Unknown (Submersible)

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: None taken Measuring device installed.

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This system consists of 2 Wells; Well # 1 drilled to 230 ft with a pumping level of 175 ft. Well #2 drilled to 220 ft with a pumping level of 150 ft. These wells are interconnected and incorporate 15 hp submersible pumps. Water is diverted to 4 65 gal pressurized tanks as well as a 12000 gal storage tank for barn-washing.

The domestic component consists of one home, 1200 sq ft of lawn around the home, and a lawn in front of the dairy measuring approximately .38 acres.

APR 5 2002

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: Theoretical and Computer generated Dairy Worksheet

Worksheet computations indicate System Capacity at 0.73cfs

G. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:** $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$ $V_{D.R.} = (\text{Diversion Rate (cfs)}) \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$ **2. Volume Calculations for Other Uses:**

Domestic allowance 0.04cfs 1.2afa

H. RECOMMENDATIONS**1. Recommended Amounts**

Beneficial Use	Period of Use		Rate of Diversion		Annual Volume V (afa)
	From	To	Q (cfs)		
<u>Domestic</u>	<u>01-01</u>	<u>12-31</u>	<u>0.04cfs</u>	<u>1.2afa</u>	
<u>Commercial</u>	<u>01-01</u>	<u>12-31</u>	<u>0.04cfs</u>	<u>1.6afa</u>	
<u>Stockwater</u>	<u>01-01</u>	<u>12-31</u>	<u>0.72cfs</u>	<u>44afa</u>	
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Totals:		0.73cfs	46.8afa		

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

I. AUTHENTICATIONField Examiner's Name Sallas R. Thy Date 05-18-96

Reviewer _____ MICROFILMED _____ Date _____

AUG 15 2002

FILE # or NAME ----- 36-08382
REVIEWER ----- drt
DATE ----- 24-Apr-96

IDAHO DEPARTMENT OF WATER RESOURCES

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE ----- 1000
NUMBER OF NONMILKING CATTLE ----- 300
IF LAGOON IS AEROBIC, ENTER ITS SURFACE AREA IN ACRES;
IF ANAEROBIC, ENTER ZERO ----- 0.0
EVAPOTRANSPIRATION FACTOR FOR AREA (AC-FT/AC-YR) ----- 0
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF
SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS - 1
NUMBER OF MILKINGS PER DAY ----- 2

CALCULATIONS

DIVERSION RATE FOR STOCKWATER (CFS): ****

MILKING CATTLE @35 GPD/HD ----- 0.65
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --- 0.65
NONMILKING CATTLE @12 GPD/HD ----- 0.07
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --- 0.07
TOTAL (BASED UPON ROUNDED NUMBERS) ----- 0.72

DIVERSION VOLUME (AFA):

STOCKWATER
MILKING CATTLE @35 GPD/HD ----- 39.2
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --- 40.0
NONMILKING CATTLE @12 GPD/HD ----- 4.0
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --- 4.0
TOTAL (BASED UPON ROUNDED NUMBERS) ----- 44.0

COMMERCIAL
WASHING OF BULK TANK AND RELATED EQUIPMENT ----- 0.4
PARLOR FLOOR AND MILKHOUSE FLOOR ----- 0.1
CATTLE WASHING BASED UPON METHOD OF WASHING ----- 1.1
TOTAL ----- 1.6

TOTAL DIVERSION VOLUME ----- 45.6

CONSUMPTIVE USE VOLUME (AFA):

STOCKWATER
MILKING ----- 5.8
NONMILKING ----- 0.0
TOTAL ----- 5.8

COMMERCIAL ----- 0.0

TOTAL CONSUMPTIVE USE ----- 5.8

THEORETICAL FLOW ESTIMATION

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3
PUMP HORSEPOWER (HP) -----	15.00	15.00	
LIFT (FT) -----	175	150	
DISCHARGE PRESSURE (PSI) -----	40	40	
FRICTION LOSSES (FT) -----	0.0	0.0	

CALCULATIONS

THEORETICAL FLOW RATE (CFS) ** ----- 0.35 0.38 0.00

DIVERSION VOLUME (AFA) *** ----- 250.2 276.0 0.0

* NUMBER OF CATTLE ROUNDED UP TO AGREE WITH EXISTING TABLES.

** PUMP EFFICIENCY WAS ASSUMED TO BE 70%.

*** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON
THE THEORETICAL FLOW RATE ASSUMING PUMP RUNS CONTINUOUSLY
EVERY DAY OF THE YEAR.

**** BASED ON 2 HOUR DIVERSION TO MEET VOLUME

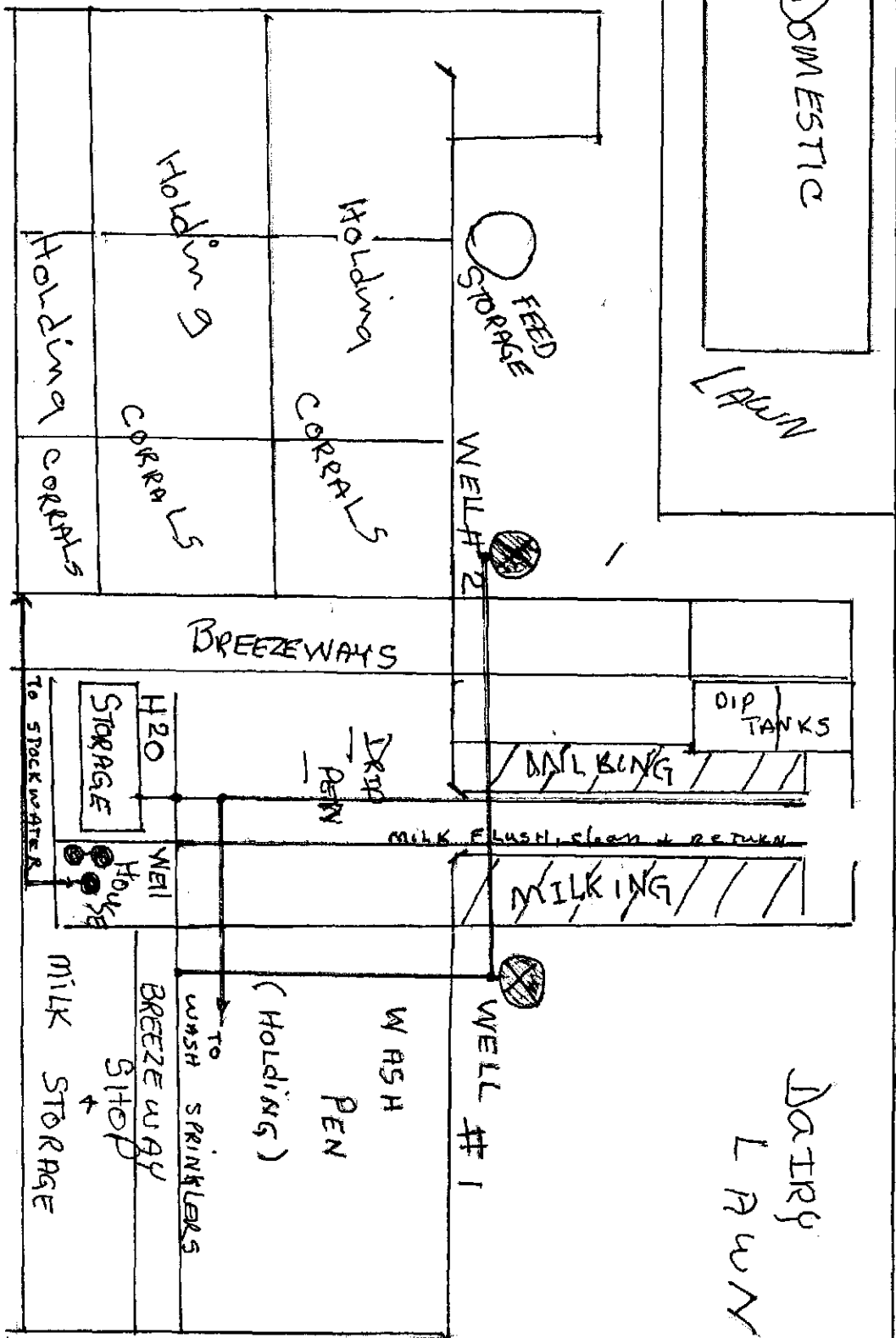
0.35
0.38
0.73 cfs capacity

Dev.: M Sterling
Mod.: ADM & KKC
Mod.: 8/5/94 DRJ

MICROFILMED

AUG 15 2002

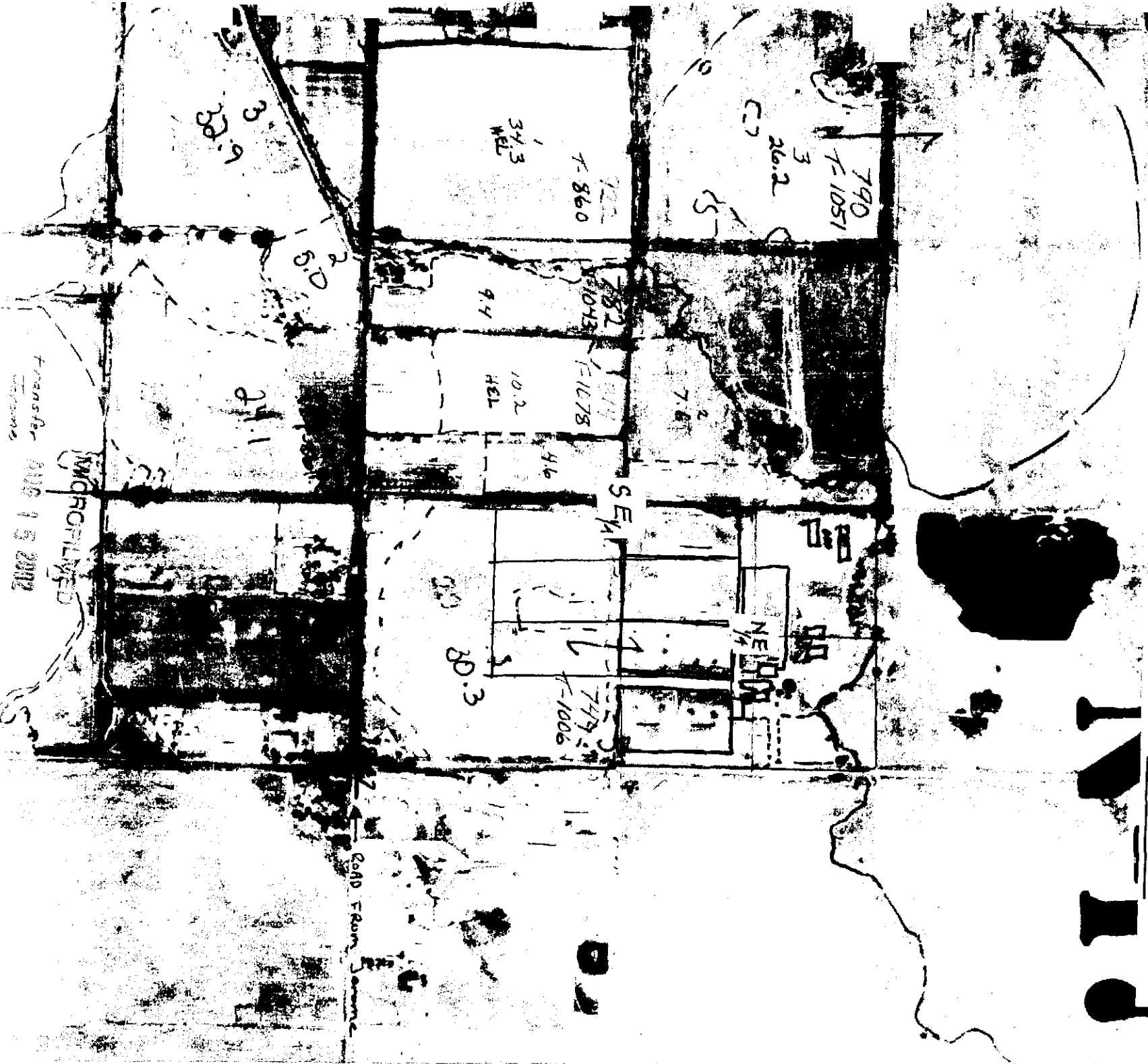
1
2
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MICROFILMED

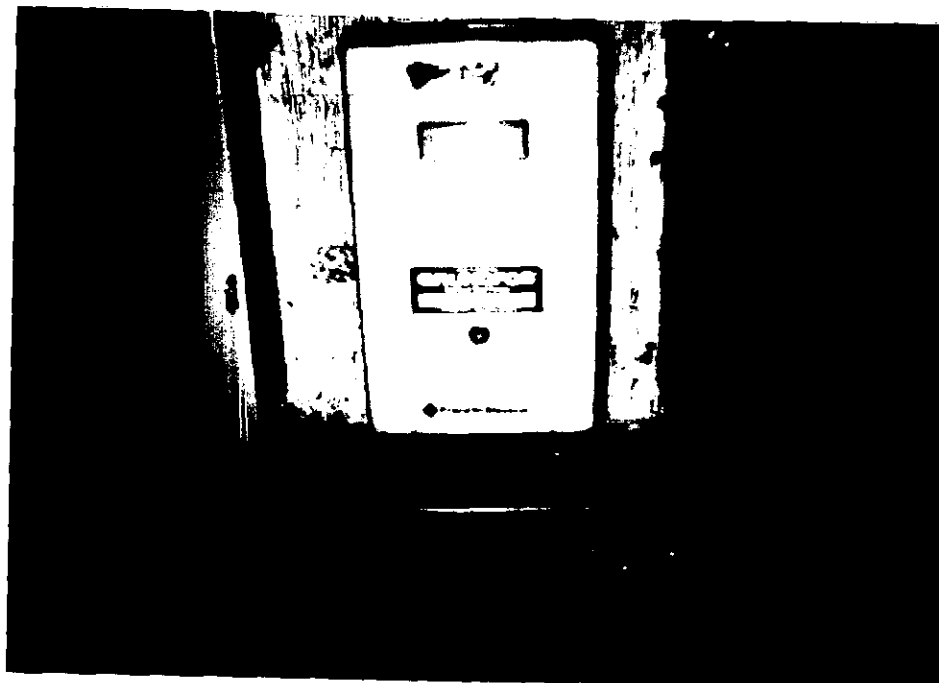
AUG 15 2002

PERMIT 36-08582 INIT det
 T. R. S. 9/0
 P/D 25 16E 18 NE/SE
 SCALE
 PHOTO ID.



Bureau

PERMIT 36-08382 INIT det
T. R. S. Q/Q
P/D 85 165 18 NE/NE/SE
SCALE _____
PHOTO ID. _____



MICROFILM

AUG 15 2002

PERMIT 36-08382 INIT det
T. R. S. Q/Q
P/D 85 165 18 N/E/N/E/SE
SCALE _____
PHOTO ID. _____



P/D
15HP



P/D
15HP

MICROFILM

AUG 15 2002

S1
4/92

IDAHO DEPARTMENT OF WATER RESOURCES

STAFF ANALYSIS SHEET FOR BENEFICIAL USE FIELD EXAMS:

PERMIT NO. 36-08382

A. Items To Be Placed In Exam File (Items A & B to be Completed by Compiler)

- (X) Blank Field Report & Notice of Completed Exam
- (X) Copy of App. for Permit, Approved Permit, Amendments, Orders, Assignments, Proof of Beneficial Use, SRBA Claim (Claim Filed? _____ Required? _____)
- (X) Well Inspection Form, Dairy Water-Use Worksheet (if applicable)
- (X) Well Log(s) & Groundwater Measurement Analysis Form (if applicable)
- (X) Copy of Orthophotoquad Map
- (X) 660-Scale Aerial Photo (Examiner Will Obtain If Applicable)
- () Government Lot Plats (If Applicable)

B.1. P/D Overlap - Yes or No? If Yes, Include Copy of Overlapping Rights & Claims

- If Yes, Type of Overlap: () Add Acres or Uses to Existing System
() Increase Rate of Flow or Volume

B.2. P/U Overlap - Yes or No? If Yes, Include Copies of Overlapping Rights & Claims

- If Yes, Type of Overlap: () Increase Rate of Flow or Volume
() Add Supplemental Water Source
() Increase Acres Within Tracts

C. Field Exam Appointment Made:

Date 04-08-96 Time 10:30 Place H/O

Contact Person & Phone MR. BOWERS

D. Post-Exam Review & Processing

Exam Completed 04-08-96 Notice of Completion Turned In 04-30-96
Field Report Completed 04-30-96 Dieter 04-30-96
Signature of Examiner & Date
Field Report Reviewed by Sr. Agent _____ (Initial & Date)
Field Report Reviewed by Region Mgr. AD 5/15/96 (Initial & Date)
Field Report Sent to S.O. _____ Region Card File Updated _____



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

September 30, 1993

JOHN BEUKERS AND
NORTHWEST FARM CREDIT SERVICES ACA
129 EASTLAND DRIVE
PO BOX 288
TWIN FALLS ID 83303-0288

Re: Permit No. 36-08382

Dear Permit Holders:

We acknowledge receipt of the correspondence assigning the ownership of the above referenced water right to you. We have modified our computer records to reflect this change in ownership.

If you have any questions regarding this matter, please feel free to contact us.

Sincerely,

JIM JOHNSON
Water Rights Supervisor

JJ:dc

c: John Beukers

RECEIVED

OCT 19 1993



Farm Credit Services

RECEIVED

SEP 24 1993

September 22, 1993

129 Eastland Drive
P.O. Box 288
Twin Falls, Idaho 83303-0288
208/733-2577

Department of Water Resources
Southern Region Office
Department of Water Resources
222 Shoshone Street East
Twin Falls ID 83301

RE: Water Permit 36-08382
John Beukers

Gentlemen:

This letter will serve as notice to the Department of Water Resources that Northwest Farm Credit Services, ACA, has a security interest in Permit No. 36-08382 and a real estate mortgage has been filed on property where the wells are located. Enclosed is an Assignment from John Beukers and Ruth Beukers, husband and wife, to John Beukers and Ruth Beukers, husband and wife, and Northwest Farm Credit Services, ACA.

We request copies of all notices and correspondence mailed to John Beukers and Ruth Beukers, husband and wife, regarding the above-described permit number be sent to our office address.

Please acknowledge below and return this letter to our office. We appreciate your cooperation in this matter.

Sincerely,

Carolyn Hoover
Operations Assistant

ACKNOWLEDGED this day of July, 1993.

DEPARTMENT OF WATER RESOURCES

By

RECEIVED

OCT 19 1993

WELL DRILLER'S REPORT

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.

1. WELL OWNER

Name John Beukers Dairy
Address 3257 S 2400 E Jerome, ID 83338
Drilling Permit No. 36-92-S-0307-000
Water Right Permit No. 36-8382

2. NATURE OF WORK

- ☐ New well ☐ Deepened ☒ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

- ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (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	8 5/8 inches	0 feet	18 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

- Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun

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 _____ Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____

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 _____

7. WATER LEVEL

Static water level 175' feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

NONE

☐ Pump ☐ Bailor ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
10"	0	30'	top soil		X
	30"	21'	gray basalt sm breaks		
	21'	22'	pink basalt		
	22'	33'	gray basalt lg breaks		
	33'	46'	gray basalt sm breaks		
	46'	47'	crevice		
	47'	49'	pink basalt - broken & clay		
	49'	68'	pink & gray basalt porous sm breaks		
	68'	92'	med hard gray basalt sm breaks		
	92'	96'	med hard gray basalt lg breaks		
	96'	97'	med hard pink basalt		
	97'	101'	crevice		
	101'	110'	med hard broken		
	110'	114'	soft		
	114'	119'	med hard sm breaks		
	119'	141'	med hard gray basalt lg breaks		
	141'	144'	soft		
10 7/8"	144'	151'	pink & gray basalt sm breaks		
8"	151'	154'	med hard gray basalt		
	154'	156'	lg breaks		
	156'	160'	sm breaks		
	160'	164'	med hard lg breaks		
	164'	172'	med hard sm breaks		X
	172'	176'	lg breaks		
	176'	195'	pink basalt sm breaks		
	195'	209'	gray basalt lg breaks porous		X
	209'	212'	med hard gray basalt		
	212'	217'	crevice		X
	217'	223'	med hard sm breaks		
	223'	224'	crevice		X
	224'	230'	broken		X

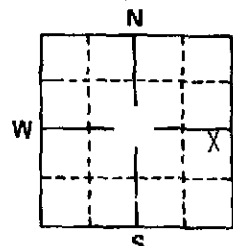
RECEIVED

RECEIVED JAN 15 1993

10. FEB 22 1993 Department of Water Resources
Southern Region Office
Work started 12-8-92 finished 12-24-92

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

OCT 19 1993

Lot No. _____ Block No. _____

County _____ Gooding County

NE 1/4 SE 1/4 Sec. 18, T. 8S N 1/4 R. 16E E 1/4 W 1/4

11. DRILLERS CERTIFICATION

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

Firm Name Smith Drilling & Pump Firm No. 11

Address Jerome, Idaho 83338 Date 12-22-92

Signed by (Firm Official) [Signature]

and
(Operator) Melvin H. [Signature]

February 5, 1993

JOHN BEUKERS
3257 S. 2400 E.
JEROME ID 83338

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 36-08382

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.

I note that the permit issued to you by the department requires the installation of a flow measurement port to allow the department to determine the rate of diversion. The proof which you submitted does not show that you have installed this equipment.

The installation of the flow measurement port must be complete by the time the department representative conducts the examination of your system unless the department has rescinded the requirement prior to the field examination. In some cases, the equipment requirement can be rescinded because the equipment cannot be physically installed, is not appropriate or can be accommodated with other measuring methods.

If you have questions concerning this matter, please feel free to contact the SOUTHERN Regional Office in Twin Falls at (208)736-3033.

Sincerely,

Karen L. Gustafson
Secretary/Records Manager

c: IDWR - Region

RECEIVED
FEB 17 1993

ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE

Permit No. 36-08382

Reviewed by klg

Date 12/29/92

GENERAL CONSIDERATIONS

NO ~~yes~~ Name same as permit?
yes Address same as permit?
yes Proof timely received?
If not, complete calculation below.

TYPES OF USE

domestic-1 - commercial-dairy
stock
Correct Uses? yes

SOURCE OF WATER

 Surface water source

✓ Ground water source

yes Drilling permit required?

 Copy in the file? Drilling Permit No. 36-92-S-307-000

35 Amount paid for permit NO Correct?

 Well log in the file?

LICENSE EXAMINATION FEE

yes Required?
100 Amount Submitted
yes Correct?

MEASURING DEVICE

yes Required?
no Installed?
no Waiver requested?

PRIORITY CALCULATION

Date proof received	<u>NA</u>	<u> </u>
Date proof due	<u> </u>	<u> </u>
No. of days late	<u> </u>	<u> </u>
Priority Date	<u> </u>	<u> </u>
New Priority Date	<u> </u>	<u> </u>

DEFICIENCIES OR ACTION ITEMS

hold for well log - OK
need go pursue additional \$'s - domestic v stock/commercial
well
proof acceptable

DATA ENTRY

New Address name is Bankers 1/20/93

Proof Made 12/28/92
2/5/93

Ident. No.

36-92-S-0307-000

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR DRILLING PERMIT

1. Name: BEUKERS DAIRY 208-324-8618
Address: 3257 S. 2400 E.
JEROME ID 83338

2. Proposed Well Location: NENESE Sec. 18, Township 08S, Range 16E
GOODING County

3. Proposed Use of Well: Domestic

The use of water for homes, organization camps, livestock and for any other purpose in connection therewith, including irrigation for up to .5 acres of land, if the total use is not in excess of 13,000 gpd; or any other uses, if the total use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

Domestic does not include water for multiple ownership subdivisions, mobile home parks, commercial or business establishments, unless the use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

4. Well Construction Information:

- A. Replace
- B. Proposed Surface Diameter 8 In. Proposed Maximum Depth 300 Ft.
- C. Anticipated Bottom Hole Temperature: 85 F or less (Cold water well)

5. Construction Start Date: 12/ 1/1992

6. Anticipated Well Driller: EATON DRILLING & PUMP SERVICE INC

NOTE: The actual well driller must be identified prior to drilling.

7. Applicant's Signature John Beukers Date 11-24-92

Title _____
(Owner, Firm Representative, Other)

Fee \$ 35.00 Receipted by JP No. 5015195 Date 11-24-92

RECORDED

FEB 17 1993

ACT OF THE DEPARTMENT OF WATER RESOURCES

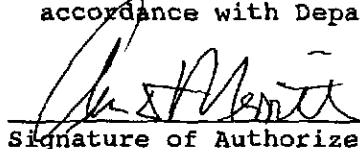
This permit is APPROVED

Date: 11/24/1992

If approved, this permit authorizes the construction or modification of a well subject to the following conditions. READ CAREFULLY!

GENERAL CONDITIONS:

1. The well must be constructed or modified in compliance with the applicable statutes; specific conditions of approval shown on the water right permit, transfer, amendment, or injection well permit; and the rules and regulations of the Department for water appropriation, injection wells, and well construction.
2. This drilling permit is valid for two (2) months from approval date for the start of drilling.
3. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well. All wells must be drilled a minimum distance of 100 feet from a drain field. Domestic and Public Water Supply wells must be drilled a minimum distance of 50 feet and 100 feet respectively from a septic tank.
4. The well shall be constructed by a driller licensed in the State of Idaho.
5. Approval of this drilling permit does not authorize trespass on the land of another party.
6. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
7. If a bottom hole temperature of 85 F or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.
8. If this permit is for a replacement well, the well being replaced must be abandoned in accordance with Department Rules and Regulations.

 FOR LOREN HOLMES
Signature of Authorized Dept. Representative


Title

EXTENSION OF DRILLING PERMIT

Extension Approved by: _____

Approval Date: _____

Expires On: _____

MICROFILMED

FEB 17 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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.

1. WELL OWNER Name <u>John Beukers Dairy</u> Address <u>3257 S 2400 E Jerome, ID 83338</u> Drilling Permit No. <u>36-92-S-0307-000</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>175'</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																																																																																																																																																																				
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	101'	110'	med hard broken		X																																																																																																																																																																																																
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	114'	119'	med hard sm breaks		X																																																																																																																																																																																																
	119'	141'	med hard gray basalt lg breaks		X																																																																																																																																																																																																
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10/8"	144'	151'	pink & gray basalt sm breaks		X																																																																																																																																																																																																
8"	151'	154'	med hard gray basalt		X																																																																																																																																																																																																
	154'	156'	lg breaks		X																																																																																																																																																																																																
	156'	160'	sm breaks		X																																																																																																																																																																																																
	160'	164'	med hard lg breaks		X																																																																																																																																																																																																
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	172'	176'	lg breaks		X																																																																																																																																																																																																
	176'	195'	pink basalt sm breaks		X																																																																																																																																																																																																
	195'	209'	gray basalt lg breaks porous		X																																																																																																																																																																																																
	209'	212'	med hard gray basalt		X																																																																																																																																																																																																
	212'	217'	crevice		X																																																																																																																																																																																																
	217'	223'	med hard sm breaks		X																																																																																																																																																																																																
	223'	224'	crevice		X																																																																																																																																																																																																
	224'	230'	broken		X																																																																																																																																																																																																
4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	10. Work started <u>12-8-92</u> finished <u>12-24-92</u>																																																																																																																																																																																																				
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>.250</u> inches</td><td><u>8 5/8</u> inches</td><td><u>0</u> feet</td><td><u>151'</u> 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 casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches <table border="1" style="width: 100%; border-collapse: collapse;"><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> 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 _____ Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Pudding clay ☐ _____ 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 _____	Thickness	Diameter	From	To	<u>.250</u> inches	<u>8 5/8</u> inches	<u>0</u> feet	<u>151'</u> 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	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>Smith Drilling & Pump</u> Firm No. <u>11</u> Address <u>Jerome, Idaho 83338</u> Date <u>12-22-92</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>[Signature]</u>																																																																																																																																																																				
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6. LOCATION OF WELL Sketch map location must agree with written location. N W E S Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Gooding</u> County NE ¼ SE ¼ Sec. <u>18</u> , T. <u>8S</u> N ¼ S ¼ R. <u>16E</u> E ¼ W ¼	11. DRILLERS CERTIFICATION FEB 17 1993																																																																																																																																																																																																				



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

January 20, 1993

John Beukers
3257 S 2400 E
Jerome, ID 83338

Re: Permit No. 36-08382
Drilling Permit No. 36-92-S-0307

Dear Permit Holder:

Enclosed is a copy of the Proof of Beneficial Use submitted in connection with the above referenced water right. It, and your permit to appropriate water, both indicate that the use is for one domestic home, commercial use for a dairy, and stockwater use for 2000 cattle. Also enclosed is a copy of the drilling permit for which you applied in connection with this water right. It indicates the extent of use to be strictly domestic.

You were accordingly charged \$35 for the domestic well drilling permit. However, because of the uses you have indicated (commercial and dairy), the drilling permit is no longer considered strictly domestic. The charge for a non-domestic drilling permit is \$200.

Secondly, your water right permit indicates that you will be utilizing four wells, two of which are existing and two of which still needed to be drilled. Have you drilled the second well? If not, do you plan to drill this well?

Before the Department can accept the proof of beneficial use as filed, you will need to pay the additional \$165 fee associated with the drilling permit. I will hold your file for 30 days to allow you time in which to submit the additional fee.

If you have any questions or if I can be of any further assistance, please feel free to contact me.

Sincerely,

Karen L. Gustafson
Karen L. Gustafson
Secretary/Records Manager

RECEIVED
FEB 17 1993

C: IDWR Regional Office

FEB 17 1993

Enclosures



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

January 14, 1993

Mr. R Darryl Smith
Smith Drilling and Pump Co Inc
328 West Ave A
Jerome, ID 83338

Re: Permit No. 36-08382 - John Beukers
Drilling Permit No. 36-92-S-0307-000
Drilling Date: December 8, 1992
Proposed Location: 08S, 16E, Section 18, SE $\frac{1}{4}$ SE $\frac{1}{4}$

In the department's review of the proof of beneficial use submitted in connection with the above referenced permit, the department was not able to locate a well log which should have been submitted 30 days after completion of the construction of this well.

While it is possible that you have submitted the log, we have been unable to locate it. Please supply me with another copy. Please address any correspondence directly to me. Your response should be received within 20 days of the date of this mailing.

This information is needed before the department can proceed further with the examination of the permit holders system and the eventual issuance of a license of water right.

If you have any questions or if I can be of any further assistance, please feel free to contact me.

Sincerely,

Karen L. Gustafson
Secretary/Records Manager

C: Permit

RECEIVED

JAN 17 1993

October 31, 1992

JOHN BEUKERS
3257 S. 2400 E.
JEROME ID 83338

PROOF DUE NOTICE

RE: PERMIT NO. 36-08382

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before January 1, 1993. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

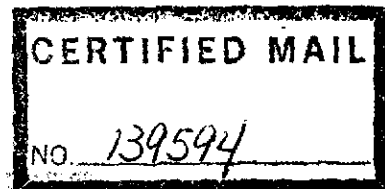
If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable 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,

Karen L. Gustafson
Secretary/Records Manager

Enclosures



FEB 17 1993

MEMORANDUM

TO:FILE 36-08382

FROM:PAM SKAGGS

RE: NAME CORRECTION

DATE: 5-DEC-1990

=====

PER TELECON WITH LAURIE AT SOUTHERN REGION, I HAVE CORRECTED THE LAST NAME OF APPLICANT. THE APPLICANT MADE THE ORIGINAL ERROR WHEN TYPING HIS APPLICATION SPELLING BEULERS INSTEAD OF BEUKERS. THE SIGNATURE ON THE APPLICATION IS BEUKERS WITH A K.

RECEIVED
FEB 17 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Statehouse
Boise, Idaho 83720
(208) 327-7900
December 14, 1989

JOHN BEULERS
3257 S. 2400 E.
JEROME, ID 83338

PERMIT APPROVAL NOTICE

RE: PERMIT NO. P36-08382

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.

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.

Please note the requirement that as a permit holder you must commence the excavation or construction of diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The enclosed blue card must be completed and returned to this office as soon as you commence construction, no later than one year from the date the permit was approved.

We have enclosed a form entitled "Instructions for Proof of

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DEC 15 1989

Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit into a license.

Sincerely,

GARY SPACKMAN, Supervisor
Water Right Permits Section

GS: SC
Enclosures

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DEC 15 1989

Form No. 202a
/87STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT ANALYSIS SHEET

INITIAL REVIEW BY

Henderson

DATE

9/6/88

APPLICATION NUMBER

36-8382

REQUIRED INFORMATION

- ☒ Name (If applicant is a corporation or partnership, names must be provided for the director, officers, & other partners.)
- ☒ Address
- ☒ Source (See USGS Quad for names of water sources)
- ☒ Point of Diversion (10 acres for spring, lot & block descriptions for subdivisions, local name, flow and/or volume)
- ☒ County
- ☒ Quantity (flow and/or volume)
- ☒ Period of Use
- ☒ Nature of proposed use (Include description of use.)
- ☒ Description of diverting works
- ☒ Time required for beneficial use of water
- ☒ Place of use or acres irrigated
- ☒ Map
- ☒ Signature (If applicant is corp. partnership, or municipality, title of signator is required)
- ☒ Fee
- ☒ Yes ☐ No* In form to receipt

ADDITIONAL INFORMATION

- ☒ Overlapping place of use (Describe source & relationship to present application on the back.)
- ☒ Overlapping point of diversion
- ☐ Yes ☒ No Field check required
Field check by _____
- ☐ Yes ☒ No Field report attached
- ☐ Yes ☒ No Critical groundwater area
- ☐ Yes ☒ No Groundwater management area
- ☐ Yes ☒ No Send dam safety information
- ☐ Yes ☒ No Send power requirement letter
- ☐ Yes ☒ No Send fish farm requirement letter
- ☐ Yes ☒ No Power residency affidavit
- ☐ Yes ☒ No Power efficiency form
- ☒ Yes ☒ No Within trustwater boundary (If yes, attach trust water supplementary analysis sheet.)
- ☐ Yes ☐ No Diversion greater than 5 cfs or 500 acre ft. (If yes, attach large diversion supplementary analysis sheet.)
- ☐ See reverse side for additional information

*REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT

Date Requested

DEC 05 1988**RECEIVED**

Department of Water Resources

PROCESSING

☒ Yes ☐ No Form for advertising
☐ Yes ☒ No Statewide advertising
☒ Yes ☐ No Fee amount, receipt date & No. recorded on application

SEND COPIES TO

☐ Idaho Dept. of Health & Welfare ☐ U.S. BLM, District _____
☐ Idaho Dept. of Fish & Game, Region _____ ☐ U.S. Forest Service, Forest _____
☐ Idaho Dept. of Lands ☐ Water District # _____
☐ Adjudication Bureau Unit ☐ Other _____

FINAL REGIONAL PROCESSING REVIEW

☒ Yes ☐ No Affidavit of publication received
☒ Yes ☐ No Application published correctly. If not, record action taken.

☒ Yes ☐ No ~~Publication dates & paper~~, recorded on application
☐ Yes ☒ No Protests received
Final date for protest _____
☐ Yes ☒ No Protests, dates, resolution of protest, recorded on application
☐ Yes ☒ No Recommendations attached
☐ Yes ☒ No Measuring device required
☒ Yes ☒ No Access port required
☐ Yes ☒ No Will water be delivered by watermaster? If yes, what Dist. _____
☒ Yes ☐ No Special conditions of approval or cover letter below. _____

☐ See below for additional information

Date of priority recommended 8/16/88
BY Loren D. Hulme Date 11/30/89

STATE OFFICE REVIEW

P23, P03, P17

46 09E 26 01G

☐ See below for additional information

By KW Date 12-8-89

ADDITIONAL INFORMATION

App. in TRUST area - DCMI
allow 3 yrs. to develop -

MEMORANDUM

TO: FILE/APPLICATION NO. 36-8382

FROM: TIM LUKE

RE: SWAN FALLS PROCESSING

DATE: 11-20-89

=====

The uses identified under this application meet the "DCMI" definition as provided in Water Appropriation Rule 2,8. Uses meeting the DCMI definition are presumed to satisfy the public interest requirements. This application therefore is exempt from the review requirements of Section 42-203C and may be removed from the Swan Falls process list.

The state office should proceed with processing of this application.

NOT REFILED

DEC 15 1989

October 31, 1988

John Beulers
3257 S. 2400 E.
Jerome, ID 83338

Re: Application for Permit No. 36-08382

Dear Applicant (s):

The Department of Water Resources acknowledges receipt of your water right application for permit. The application has been assigned the above referenced identification number. Please refer to this number in all further correspondence.

This office will be advertising the application in the Gooding County Leader on 11/2 & 11/9/88. 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.

Very truly yours,

Gary Funderburg
Sr. Water Resource Agent

GF:MB

MANIFESTED

DEC 15 1989

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region
2148 4th Avenue East
Twin Falls, ID 83301
(208)734-3578

OCTOBER 20, 1988

GOODING COUNTY LEADER
BOX 56
GOODING, ID 83330

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 NOVEMBER 21, 1988.

Yours truly,

Mary Baldwin
Secretary/Office Coordinator

Enclosure

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DEC 15 1989

NOTICE OF APPLICATION FOR WATER RIGHT

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

36-08382

BEULERS, JOHN
3257 S. 2400 E.
JEROME, ID 83338

Source: GROUNDWATER

Diversion Pt: NESE Sec 18 T 08S R 16E; Gooding County; 6 miles East
 SESE Sec 18 T 08S R 16E of Jerome.

Use: STOCKWATER (.560 CFS)
 COMMERCIAL (1.000 CFS)
 DOMESTIC (.040 CFS)

Date Filed: 8/16/1988

In: T08S R16E S18 NESE SESE

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, 2148 4th Avenue East, Twin Falls, Idaho 83301 on or before NOVEMBER 21, 1988.

R. Keith Higginson, Director

Published 11/02/1988 & 11/09/1988

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DEC 15 1989

STAFF ANALYSIS SUPPLEMENT

1) Water District _____ Basin # 30 -

2) Local description (of one P/D)

☐ At the above street address

☐ 0 miles N/S _____ and 6 miles E/W
of Telone Col
(City center or numbered highway intersection)

☐ _____

(Travel directions from city center or highway intersection)