

CUST #	CUSTOMER NAME	ADDRESS	CITY/ST
1718	WILLIAMS, BRUCE AND LEANN	12600 EMERALD DR.	Hayden L.
1906	WILLIAMS, RICHARD C.	12590 DIAMOND DR.	Hayden L.
1805	WILLIS, ALICE	★ P.O. BOX 478	Hayden L.
52008	WILSON, GERALD	12510 EMERALD DR.	Hayden L.
1703	WISE, MIKE & AMY	705 E. BUCKLES	Hayden L.
0104	WOOD, STAN	11815 DIAMOND DR.	Hayden L.
0902	WOOLLEY, SHAUN P. & NANCY M.	12175 EMERALD DR.	Hayden L.
50106	YARBOROUGH, JIM	11832 DIAMOND DR.	Hayden L.
0401	ZANNINI, EUGENE	525 E. BUCKLES RD.	Hayden L.
1811	ZAPPETTINI, RONALD E.	835 RUBY DRIVE	Hayden L.

8-26-98

* OWNER OF PROPERTY IS.

a. CHOOSING TO RECEIVE MAIL BY PO BOX

b. CHOOSING TO RENT PROPERTY - RENTER DATA ~~NOT~~ INCLUDED.

[Signature]

WATER MASTER

per telecon 10/5/98
AL

772-8143

MICROFILMED
APR 15 1999

State of Idaho
Department of Water Resources
Water Right License
WATER RIGHT NO. 95-08824

Priority: July 28, 1993

Maximum Diversion Rate:

0.91 CFS

Maximum Diversion Volume:

247.8 AF

This is to certify, that EMERALD ESTATES WATER ASSN INC
PO BOX 1082

HAYDEN ID 83835-1082 has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated July 28, 1993; and has submitted Proof of Beneficial Use on September 30, 1996. An examination indicates that the works have a diversion capacity of 1.820 cfs of water from a **GROUNDWATER** source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.15 CFS	15.0 AF
DOMESTIC	01/01 to 12/31	0.91 CFS	232.8 AF
	Totals	0.91 CFS	247.8 AF

LOCATION OF POINT(S) OF DIVERSION:

NESE , Sec. 11, Township 51N, Range 04W
KOOTENAI County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
51N	04W	12	SENW	5		5

Total number of acres irrigated: 5

PLACE OF USE: DOMESTIC

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>
51N	04W	12	SENW NESW

CONDITIONS OF APPROVAL AND REMARKS

1. This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 3.0 afa per acre at the field headgate for irrigation of the lands above.
2. Rights 95-07918 and 95-08824 when combined shall not exceed a total annual diversion volume for domestic use of 232.8 af for a total of 194 homes.
3. The domestic use occurring under this right includes irrigation of 1/2 acre within each platted subdivision lot upon which a home has been constructed.

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APR 15 1999

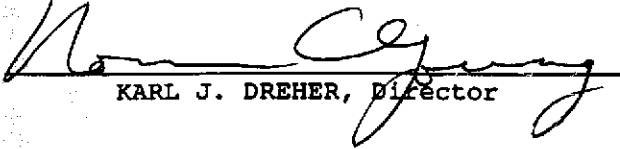
State of Idaho
Department of Water Resources**Water Right License**

WATER RIGHT NO. 95-08824

CONDITIONS OF APPROVAL AND REMARKS

4. Place of use known as Lots 1-16, Blk. 3; Lots 1-2, Blk. 4; Lots 1-2, Blk. 5; Lots 1-3, Blk. 6; Lots 1-7, Blk. 7; Lots 1-17, Blk. 8; Lots 1-13, Blk. 9; Lots 1-6, Blk. 10; Lots 1-6, Blk. 11; Lots 1-7, Blk. 12; Blk. 13; Lots 1-8, Blk. 14; Lots 1-8, Blk. 15; Lots 1-11, Blk. 16; Lots 1-19, Blk. 17; Lots 1-12, Blk. 18; Lots 1-26, Blk. 19; Lots 1-9, Blk. 20; Blk. 21; Lots 1-6, Blk. 22, Emerald Estates.
5. Two points of diversion are located within NESE, S11, T51N, R4W.
6. Right 95-07918 is also diverted through one of the points of diversion described above.

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 administered in accordance with Idaho law and applicable rules of the Department of Water Resources. Signed and sealed this 23rd day of DECEMBER, 1978.


KARL J. DREHER, DirectorMICROFILMED
APR 15 1993

RECEIVED

SEP 30 1996

STATE OF IDAHO

Department of Water Resources DEPARTMENT OF WATER RESOURCES

FOR OFFICE USE ONLY
Amt. of Fee \$: 125.00
Receipt No. 0036647
Receipt By: RC:t
Date Received: 9-26-96

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 be accompanied by a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 95-08824 Telephone No. (208)772-8143
2. Name(s) of Permit Holder(s): Emerald Estates Water Association, Inc.
3. Mailing Address: P.O. Box 1082, Hayden, ID 83835-1082
4. Source of Water: Ground Water If **GROUNDWATER** (well), Date Drilled: mo. 10 '76 - Well #1
8 / yr. 95 - Well #2
E.A. Holman Drilling Co.
a. Well Driller: Carl Pitts & Sons Drilling Permit Number: 95 - 95 - N - 127
b. **OPTIONAL:**
Pump Horsepower: 60 Pressure (psi): N/A Dynamic pumping level (ft): 300±
5. Use(s) (as authorized by the water right permit):
Domestic (No. of households): 194 Stockwater (No. and type of stock): _____
Irrigation (No. of acres): 54 Other: _____
6. Total rate of diversion and/or volume for which proof is submitted: 1.32 cfs OR _____ acre feet
7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)

Measuring Device: Is a measuring device required?	Yes <u>x</u>	or No _____
Has the measuring device been installed?	Yes <u>x</u>	or No _____
Flow Measurement Port: Is a flow measurement port required?	Yes _____	or No _____
Has the measurement port been installed?	Yes _____	or No _____
8. Fee Enclosed: \$ 125.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: Dick Inbody Telephone Number: (208)772-8143
Address: P.O. Box 1082 Hayden, ID 83835-1082
10. The information given on this form 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.
Signature of permit holder: *Richard E. Inbody* Date: 9/26/96
(include your title, if on behalf of company or organization)

RECEIVED
DEC 2 1996

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 95-08824

Proposed Priority: July 28, 1993

Maximum Diversion Rate:

1.32 CFS

This is to certify, that EMERALD ESTATES WATER ASSN INC
PO BOX 1082
HAYDEN ID 838351082

has applied for a permit to appropriate water from: GROUNDWATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	03/15 to 11/15	1.08 CFS
DOMESTIC	01/01 to 12/31	0.50 CFS
	Totals	1.32 CFS

LOCATION OF POINT(S) OF DIVERSION:

NESE , Sec. 11, Township 51N, Range 04W
KOOTENAI County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
51N	04W	12	SENW 28	NESW 26		54

Total number of acres irrigated: 54

PLACE OF USE: DOMESTIC, same as IRRIGATION use

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before October 1, 1996.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. Prior to the diversion of water under this right 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.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
6. A well drilled pursuant to this permit must be located at least 500 feet from any existing well. Well spacing closer than 500 feet must be approved by the Department of Water Resources.
7. Construction of the well must comply with Idaho well construction standards.
8. The issuance of this right in no way grants any right-of-way or easement across the land of another.

OCT 28 1993

State of Idaho
Department of Water Resources

Permit To Appropriate Water

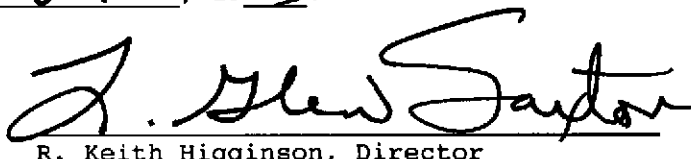
NO. 95-08824

CONDITIONS/REMARKS:

9. The rate of diversion of water for irrigation under this right and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.
10. Two points of diversion are located within NESE, S11, T51N, R04W. Domestic use is for 194 homes.

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

29th day of September, 1993.



R. Keith Higginson, Director

for

OCT 28 1993



Form 1902
6/85 Department of Water Resources

Ident. No. 95-8824

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant EMERALD ESTATES WATER ASSOCIATION, INC. Phone 772-7698
Post office address P.O. Box 1082, Hayden, Idaho 83835-1082
2. Source of water supply Groundwater which is a tributary of N/A
3. Location of point of diversion is _____ 1/4 of NE 1/4 of SE 1/4, Govt. Lot _____
Sec. 11 Township 51N Range 4W B.M. Kootenai County; additional
points of diversion if any: Same legal description as above for additional well.
4. Water will be used for the following purposes:
Amount 0.5 for Domestic purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount 1.08 for Irrigation purposes from 3/15 to 11/15 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 1.32 and/or (b) _____
cubic feet per second acre feet per annum
6. Proposed diverting works:
 - a. Description of ditches, flumes, pumps, headgates, etc. _____
2 wells with 2 pumps
 - 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 10" x 12" inches; proposed depth of ~~well~~ is 365 feet.
wells wells
 - 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
3 years (minimum 1 year) for second well. First well exists under
water rights license # 95-7918

8 1993

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. _____
- c. Municipal; show name of municipality. _____
- d. Domestic; show number of households. 194
- e. Other; describe fully. _____

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	
51N	4W	12								28	26								54
51N	4W	12								D	D								

Total number of acres to be irrigated 54

10. Describe any other water rights used for the same purposes as described above. 95-7918

for .91 CFS

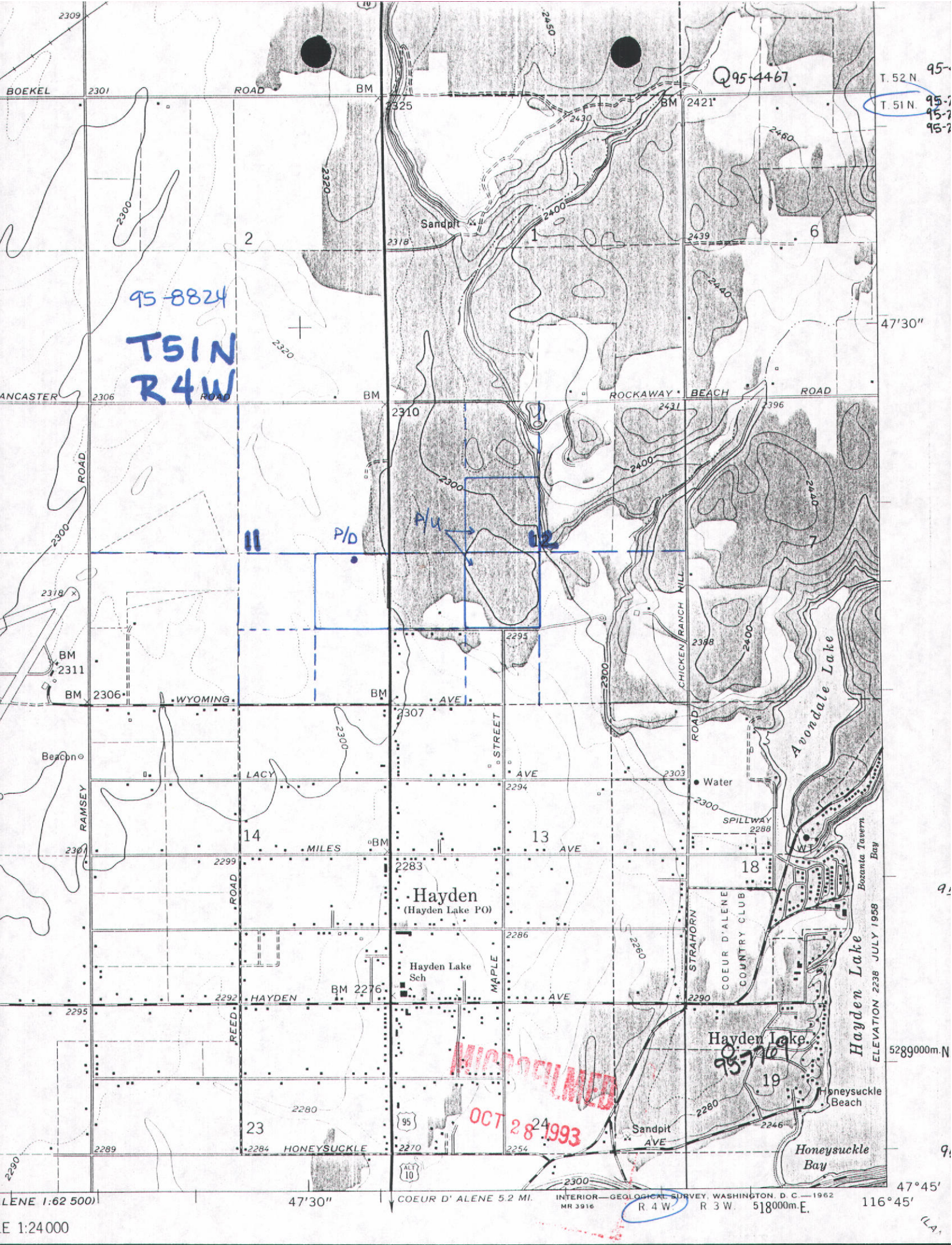
11. a. Who owns the property at the point of diversion? Emerald Estates Water Association

b. Who owns the land to be irrigated or place of use? Emerald Estates Home Owners

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 will provide for the necessary updates to the water appropriation permits as well as allow an additional well pumping system to be installed to meet the peak demands and back up source requirements of the water system.

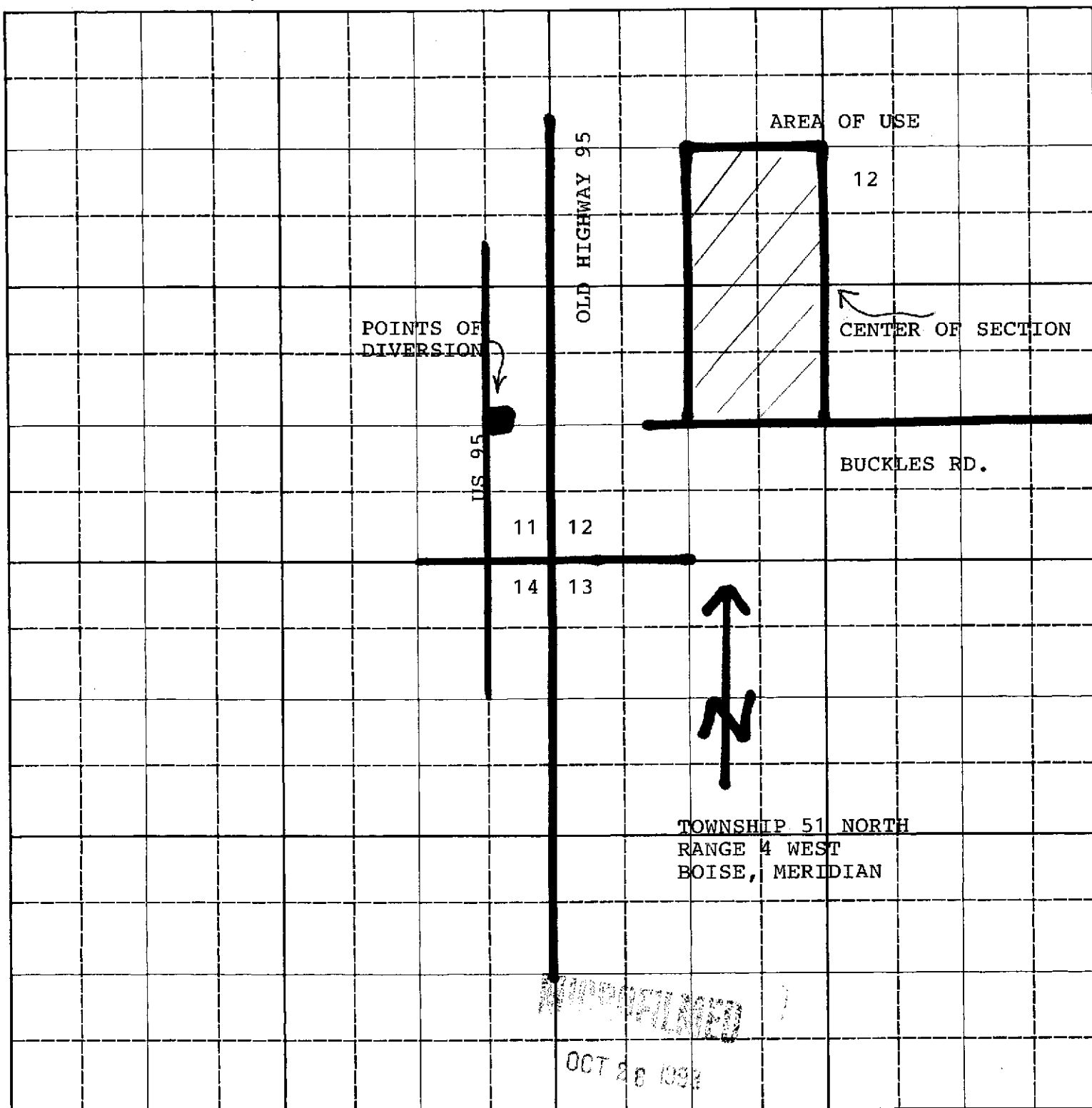
Jul 28 1993



95-8824
T51N
R4W

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OCT 28 1993

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



Scale: 2 inches equal 1 mile.

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

[Signature]
(Applicant)

DON JASPERS, PRESIDENT
EMERALD ESTATES WATER ASSOCIATION, INC.

Received by pm Date 7/28/93 Time 2:00 PM Preliminary check by AB
Fee \$ 65.00 Received by pm # N6797 Date 7/28/93
Publication prepared by pm Date 8/11/93 Published in CD/AB
Publication approved pm Date 8/30/93

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:

167 x 8 1993

EMERALD ESTATES WATER ASSOCIATION, INC.

OFFICERS

President - Don Jaspers, 12345 Amethyst Drive, Hayden Lake, Idaho

Vice president - Kathy Leferink, 12610 Diamond Drive, Hayden Lake,
Idaho

Treasurer - Armand French, N. 6754 Opal Drive, Hayden Lake, Idaho

Secretary - Armand French, N. 6754 Opal Drive, Hayden Lake, Idaho

BOARD OF DIRECTORS

Armand French, N. 6754 Opal Drive, Hayden Lake, Idaho

Kathy Leferink, 12610 Diamond Drive, Hayden Lake, Idaho

Don Jaspers, 12345 Amethyst Drive, Hayden Lake, Idaho

Dick Inbody, 12301 Emerald Drive, Hayden Lake, Idaho

Paul Franz, 12190 Amethyst Drive, Hayden Lake, Idaho

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OCT 28 1993

MEMORANDUM

TO: File 95-08824

FROM: Sharla

DATE: December 7, 1998

RE: Recommendation Adjustment(s)

The adjustments to licensing recommendations for Permit 95-08824 are as follows:

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:
T51N, R4W, S11 – NESE (2 wells)

H. RECOMMENDATIONS

Irrigation	3/15 – 11/15	0.15 cfs	15.0 afa
Domestic	1/1 – 12/31	0.91 cfs	232.8 afa
	TOTALS	0.91 cfs	247.8 afa

There are two wells used under this system. The examiner only focused on the well drilled in 1995, however, the license will reflect two wells.

The domestic use can reflect the capacity of the second well; no expansion occurs because the irrigation portion has been reduced and the additional rate can be picked up from that use. The domestic component already includes the irrigation of lawn/garden with each home, thus the irrigation use is for the 5 acre park (Block 13). The irrigation rate and volume have been calculated accordingly.

In a telecon with Mr. Inbody (watermaster/water association member), it was confirmed that there are 194 homes. 193 lots are as listed on the as-built maps found in the overlapping right 95-07918 and the park known as Blk. 21 also has a home on it.

The standard irrigation volume for this area is 3.0 af/acre.

Exam Date: July 15, 1998
Examiner: David Pagel

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APR 15 1999

Analysis of System Capacity for Subdivisions

Operator: S. Curtis

Date: 12/8/98

Right No.: 95-08824

Existing or Proposed System

Storage capacity in gallons	108000 gal	
Pump horsepower	60 hp	
Dynamic lift	300 ft	
Pump discharge pressure	45 psi	
Theoretical pumping capacity	0.91 cfs	410.6 gpm
Measured pumping capacity	0.91 cfs	408.4 gpm

X2 (2 wells)

Requirements

Number of homes	194 homes
Gallons per day per home	1000 gal
Area irrigated	54 acres
Peak demand period	60 min

Calculations

Peak instantaneous demand	0.15 cfs	69.1 gpm
Suggested pump capacity	0.05 cfs	20.7 gpm
Peak demand volume	33229 gal	
Max potential daily diversion vol.	588108 gal	
Total daily volume required	252164 gal	0.7739 af
Time required to pump daily vol.	10.3 hr	617 min
Time required to refill storage	1.4 hr	81 min

Key Questions

Does existing storage capacity exceed peak demand volume?	Yes
Does existing pumping capacity meet or exceed the suggested pumping capacity?	Yes
Can the system produce the required daily volume in under 24 hours?	Yes

Notes:

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LICENSE REVIEW CHECKLIST

PERMIT NO. 95-08824 DATE 9/30/98 REVIEWER: SHARLA

NAME Change/OK
 Address OK
 SOURCE OK Does change clarify orig. intended source? If no, Void permit
 POINT OF DIV OK ☐ Change (P39 /P47) ☐ Add (P45/P42) Feds - P40

W32 (multiple in 1/4) 3
W36 (overlap)
W59 (subd. desc)

SENW plus
NESW

meas. by meter
licensed 1987
194 homes 1.2 af/home

Overlaps: Right(s): 95-07918 91 cfs
 File reviewed Profile reports printed

PLACE OF USE OK ☐ Change (P41/P47) ☐ Add (P41/P42) Feds - P43

W60 (subd. desc)
W27 (ppu acre limit)

Overlaps: Right(s):
 File reviewed Profile reports printed

300 gpm + 400 gpm =
1.56 cfs

PD & PU amend (P37) Feds - P48

RATE OF DIV
 Permitted Rate 1.32 cfs
 Fee limit 2.00 cfs \$125.00
 Measured cfs
 Theoretical .91 cfs

Recommended Total Div Rate .91 cfs
SENW 92 x .25 = 23 + 4.5 (park)
NESW 102 x .25 = 25.5 + 1 ac (park)

WATER USES OK Change (P46)
Dom 1.00 cfs 54 x 3 = af 162 mg
Dom .90 cfs 194 x .6 af 116.4
 cfs af
 cfs af
 cfs af
 TOTALS 1.90 cfs 278.4 af

overlap (R58-R61, R62-R65, R66-R69)
 supp. gw (WB7/065/079)
 overlap spec. combined rts (W35)
<1 acre (W31) 194
 (W01/WB5/070/071/075)
 (W42 or W43/025/027/R22 or R23)
 Fire (077) Wtr Quality (081/R07)

54

Flow rate .91 cfs X 246 days X 1.98 = af

REMARKS 1-5, Bk 1; 1-10, Bk 2; 1-16, Bk 3; 1-2, Bk 4; 1-2, Bk 5;
1-3, Bk 6; 1-7, Bk 7; 1-17, Bk 8; 1-13, Bk 9; 1-6, Bk 10;
1-6, Bk 11; 1-7, Bk 12; 1-8, Bk 14; 1-8, Bk 15; 1-11, Bk 16;

ADD'L CONDITIONS ☐ Watermaster Control WD# 1-19, Bk 17; 1-12, Bk 18;
☐ GW Measurement/Measuring Device 1-26, Bk 19; 1-9, Bk 20;
☐ Others Trust (052/R55 - remove 051) Non-trust (048/049) 1-6, Bk 22

Advance Priority yes ☒ no SRBA Claim N/A Adjust Memo
 Amend letters

Bk 13 = park
Bk 21 = park home

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

AUG 31 1998

Department of Water Resources

95-08824

A. GENERAL INFORMATION

Permit No. _____

1. Owner: Emerald Estates Water Assn. Inc. Phone No. (208) 772-7698
Current Address: P.O. Box 1082 Hayden Id. 83835-1082
2. Accompanied by: Dick Inbody EXAM DATE: July 15, 1998
Address: P.O. Box 1082 Hayden Phone No. (208) 772-8143
Relationship to Permit Holder: member - water master
3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-7918
2. Other water rights with the same point of diversion: _____

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			NE	SE	11	51N	4W	Kootenai	USGS 7.5' Quad, Aerial Photo

2. Place(s) of Use:

Indicate Method of Determination Aerial Photo, Pokr Planimeter

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	4W	12								26	5								54

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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.

See theoretical as built plans

Scale: 1" = _____

☒ 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
95-95-N 127 (#2)		60			

*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
Flow meter	in Line	McGrometer	96-5206 6			

2. Measurements: _____

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APR 15 1993

32-1983-1

E. NARRATIVE/REMARKS/COMMENTS

Ground water is being diverted using a 60 HP pump to provide water for 204 homes for irrigation and domestic use.

Water is pumped from well at a maximum rate of .91 cfs (408 gpm) - based on theoretical calculation - into a 76,000 gallon and a 32,000 gallon storage reservoir. From there water is distributed to places of use through 6" water mains.

My recommendation of .91 cfs is based on the rate determined by the Theoretical calculation. A water meter is installed in this system, but at the time of this examination the reservoirs were full and the system was not activated. I have also included a copy of pump test results determined by R.C. Worst Company of Grand Ave., Idaho.

Have conditions of permit approval been met? ☒ yes ☐ no

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APR 15 1993

F. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached
See Theoretical Calculation

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

SE 1/4 NW 1/4 = 65% irrigated = .65 x 40 acres = 26 acres
NE 1/4 SW 1/4 = 70% irrigated = .70 x 40 acres = 28 acres
Total = 54

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 54 \text{ acres} \times 3.5 \text{ af/acre/season} = 189 \text{ afa}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = .91 \text{ cfs} \times 245 \text{ days} \times 1.9835 = 442 \text{ afa}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 189 \text{ afa}$

2. Volume Calculations for Other Uses:

~~195 homes x 1.2 afa = 234 afa~~

204 homes x 1.2 afa = 244.8 afa

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
~~Irrigation~~	~~03/15~~	~~11/15~~	~~.91~~	~~189~~
Domestic	01/01	12/31	.91	234 245
				434
Totals:			.91	423 afa

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. AUTHENTICATION

Field Examiner's Name David A. Pangel Date Aug. 28, 1998

Reviewer _____ Date _____

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APR 15 1999

THEORETICAL PUMP EFFICIENCY CALCULATIONS

FILE: 95-08824, EMERALD ESTATES WATER

DATE: 15-JUL-98

COMPLETE BY: PAGEL

HORSEPOWER = 60

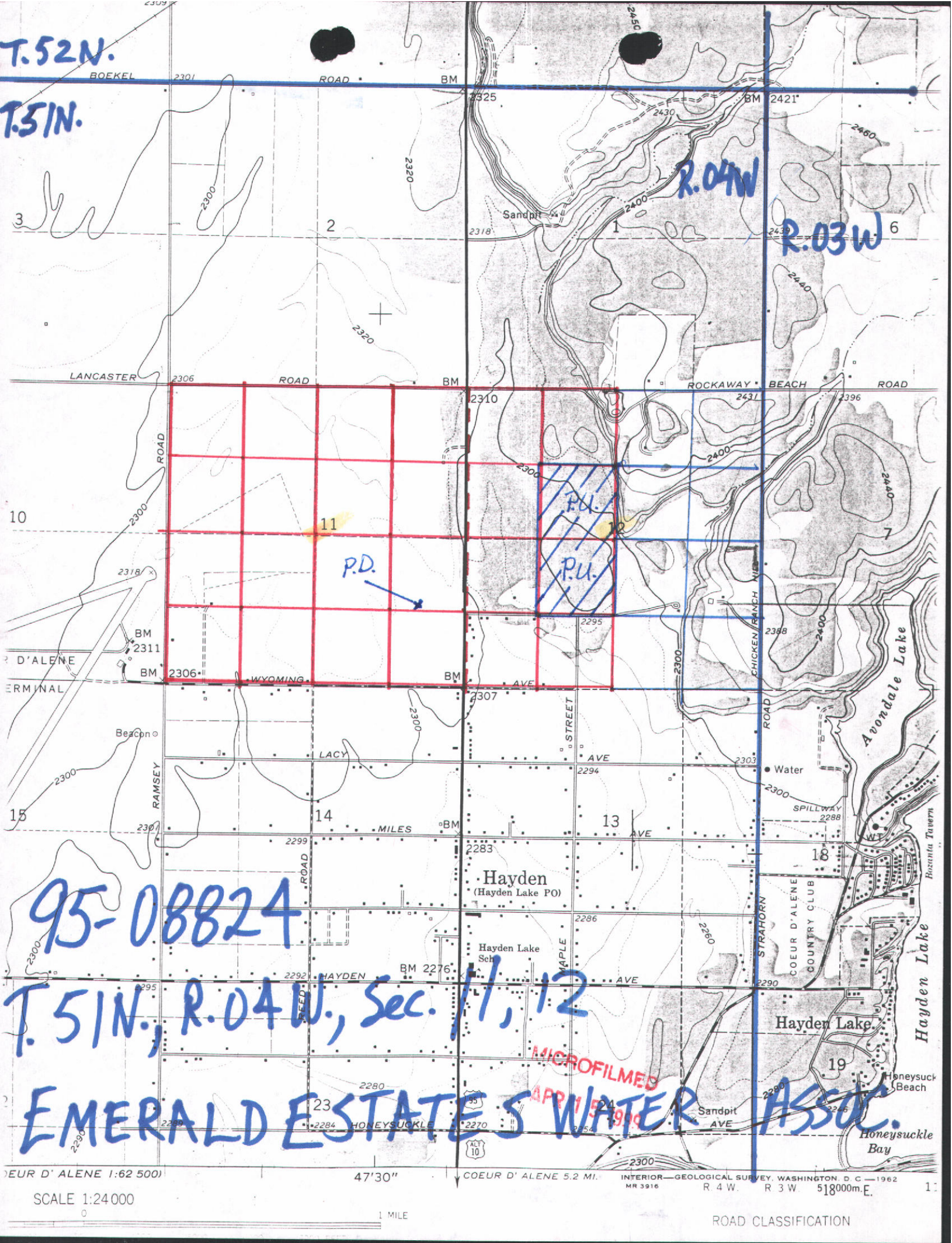
PUMP EFFICIENCY = 70%

DYNAMIC LIFT = 300 FEET

SYSTEM PRESSURE = 45 PSI

QUANTITY = 0.91 CFS

MICROFILMED
APR 15 1999



T.52N.

T.51N.

R.04W

R.03W

P.U.

P.U.

P.D.

95-08824

T.51N., R.04W., Sec. 11, 12

EMERALD ESTATES WATER ASSUC.

COEUR D'ALENE 1:62 500'

47'30"

COEUR D'ALENE 5.2 MI.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1962
MR 3916 R 4 W. R 3 W 518000m.E.

SCALE 1:24 000

1 MILE

ROAD CLASSIFICATION



2

12

PD

Storage
Tanks

11

12

14

MICROFILMED

APR 15 1995

13

95-08874

T.51N., R.04W. Sec. 11

**EMERALD ESTATES WATER WORKS
MAINTENANCE CHECK**

Date : JUNE 4, 1998

Service Company: R.C. Worst

Serviceman: Greg Hushman

WELL PUMP - NO.1, (NW), -- 60 HP, 460 Volt, 3 Phase

Amperage: L1 59 , L2 58 , L3 60

Volts: 482

Continuity: 4 OHMS

Short to Ground: 5 m.

Flow: 300 G.P.M.

Time Delay Setting 17 Seconds

Meter Reading: 2386.36

Comments:

WELL PUMP - NO.2, (SE), -- 60HP, 460 Volt, 3 Phase

Amperage: L1 L2 L3
 78 78 79

Volts: 482

Continuity: 4

Short to Ground: 10 M.

Flow: 400 G.P.M.

Time Delay Set:

Meter Reads: 027339

Comments: Hour meter reading - (92.6).

RESERVOIR PUMPS - 4 ea., 10HP, 230 Volt, 3 Phase

No. 1

Amperage: L1 23 , L2 24 , L3 24

Volts: 240

Continuity: .6 ohms

Short to Ground: none infinity

Flow: 130 gpm Shut-off Pressure: 66 psi

Hour Meter: 20537.3

No. 2

Amperage: L1 28 , L2 29 , L3 30

Volts: 240

Continuity: .6

Short to Ground: none infinity

Flow: 140 gpm Shut-off Pressure: 66 psi

Hour Meter: 16702.6

No. 3

Amperage: L1 28 , L2 29 , L3 30

Volts: 240

Continuity: .6

Short to Ground: 3 MEGS

Flow: 180 gpm Shut-off Pressure: 66 psi Hour Meter: 07496.3

No. 4

Amperage: L1 24 , L2 25 , L3 25

Volts: 240

Continuity: .6

Short to Ground: none infinity

Flow: 140 gpm Shut-off Pressure: 66 psi

Hour Meter: 05898.6

PRESSURE SYSTEM:

Air Tanks Chg'd: yes Cut-in: 50 psi

Cut-out: 66 psi

ALL PUMPS ON AUTO: YES

Alternate OK?: ok

Time Delay Set: 5 sec.

Flow Meter Reading: 378056.

SPACE HEATERS: 2 ea. OFF

(ON -- Nov., Dec., Jan., Feb., Mar.)

DEHUMIDIFIERS: 1 ea. on

(ON -- May, Jun, Jul, Aug, Sep, Oct.)

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APR 15 1999

EMERALD ESTATES WATER ASSOC.
CUSTOMER ADDRESS LIST

8-26-98

* OWNER OF PROPERTY IS.

a. CHOOSING TO RECEIVE MAIL BY PO BOX

b. CHOOSING TO RENT PROPERTY - RENTER DATA ~~NOT~~ INCLUDED.

W. E. Luby

WATER MASTER

per telecon 10/5/98
AL

772-8143

MICROFILMED

1949

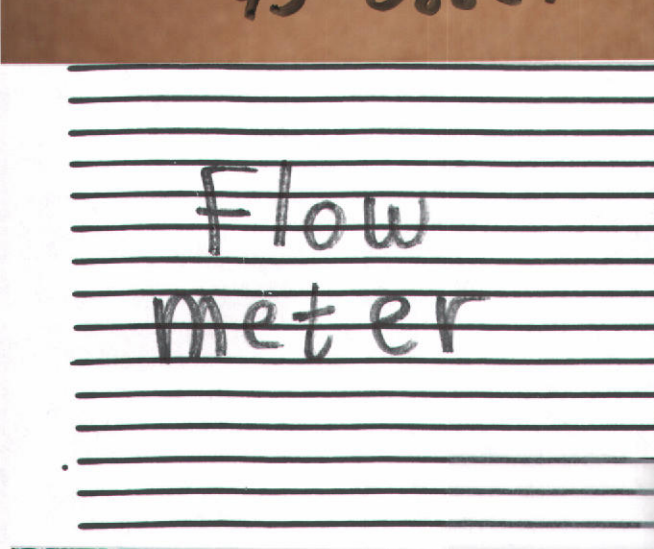
PERMIT #

95-08824

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
FIELD REPORT SUPPLEMENT



Point
of
diversion



Flow
meter



76,000 gal.
reservoir

MICROFILMED
APR 15 1999

PERMIT #

95-08824

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES



32,000 gal.

reservoir

95-08824

Pressure/
distribution
System →
↓



95-08824



95-08824

MICROFILMED
APR 15 1999



NORTHERN REGION
LDWR

Use Typewriter
or
Ball Point Pen

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Permit No. 36-08752 Reviewed by [Signature] Date 11-8-96

TYPES OF USE

Correct Uses? yes

Surface water source

✓ Ground water source

Yes Drilling permit required?

500 Copy in the file?

Drilling Permit No. 95-95-N 0127-000

200 - Amount paid for permit

UCS Correct?

oo Well log in the file?

MEASURING DEVICE

ACS Required?

1105 Required?

125 - Amount Submitted

UUS Installed?

Yes Correct?

Waiver requested?

Date proof received

Date proof due

No. of days late

Priority Date

New Priority Date

Proof acceptable

DATA ENTRY

New Address _____ Proof Made 9-30-96

Proof Made 9-30-94

APPLICATION FOR PERMIT
STATE OFFICE REVIEW

Application #: 95-8824 Date: 9/23/93 Reviewer: Cindy Zimmerman

AREA OF CONCERN? - No/Yes _____
SYSTEM COMPLETED:
No - 26A-P17
Complete in 1 year - P16
Yes
Proof not submitted - P16
Proof submitted - N/A
GROUNDWATER:
+ 0.2 cfs <flo-ch> - 01G-P03, 01C-P03 (existing), NMR
- 0.2 cfs - NMR <flow chart>
Drilling Permit:
Included w/permit - P99 Permit No. _____
Existing well - N/A (if drilled before 7/1/87)
No WD permit? - 046-46A<Irr>-46B-P23 (if drilled after 7/1/87)
SURFACE WATER: not in WD - 01C-P03 (+.2 w/pump), NMR <flow chart>
LOCATION:
Water District - WD No. _____
Surface water - 005 or 005-01J-P08 (+.2)
or 005-01H-P01 (-.2 w/pump); NMR
Groundwater - P05 (if well has not been drilled)
In stream channel - 030
Irrigation Dist. - 023
Canal Co. Areas - 023
Drainage Districts - 024
Flood Control Dist. - 063
Boise Front (63) - 058 (Groundwater temperature)
Swan Falls Flag - B <See condition code chart>
Trust - 051-052-053-P74 (Consumptive Uses)
Non Trust <1> - 048-049
RIVER BASINS (Surface): Water District Control Condition (005) &....
Boise (63) - 05A (req), 11E (non-domestic use)
Payette (65) - 047-P04, 064 (all consumptive use)
Snake (01, 02 & 03) - 11A-P04 (01), 061-P07 (02/03 No W.D.Cond.)
USE:
Fish Propagation - 06A or 09E-P10 (WQ) & 010-042 (req),
002-P06 (MD), 07A (Special), 044 (N 1000 Spr)
Irrigation - 803 (in WD use SW 1st) (+5A in WD do P/U compare)
Power - 08A-17K-025-027 (req); 01F-P19; 09E-P10;
+25 cfs-P18; 17G(FERC) or 17M(FERC); 18B-P09
Mining - 06A or 010 or 09E-P10 & 054 (req)
Storage (✓ 3 compo.) - 18A-for multi MD in WD, 18B-P09 (+10' Size)
Domestic (surface) - 021(Boise R + L Peak), 27A(Payette R)
OWNERSHIP:
Non land owner - 004 P/U home owners
PROTESTED:
Hearing agreement - 020
OTHER CONDITIONS:
REMARKS:
① 2 P/O's within NUSE, S.I.T.S.I.N., R4W.
② ~~P/O's within~~ ② WOI (194)
BENEFICIAL USE DUE: - 10 -1-199 6
COMMENTS: - ① Div Desc. ② P/U Ownership ③ Corp officers

No. a
4/87-06/92n

IDAHO DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

RECEIVED
SEP 10 1993

APPLICATION # 95-8824

Department of Water Resources

***** INITIAL REVIEW *****

APPLICANT: EMERALD ESTATES

BY: AB

DATE: 7/28/93

ITEM REQUIRED INFORMATION

1. (X) Name and Address
2. (X) Source
3. (X) Point of Diversion & County
4. (X) Quantity
(X) Nature of Proposed Use
(X) Period of Use
5. (X) Total Quantity
6. (X) Description of diverting works
7. (X) Time required for b/u
8. (X) Proposed use
9. (X) Place of use or acres irrigated
10. (X) Other Water Rights
11. (X) Ownership
13. (X) Map
(X) Signature
(X) Fee (Amt, recpt, acknowlegment)

*** Send info sheet Y() N()

ADDITIONAL INFORMATION

Yes No

- X Field check: by _____
1 Field report attached
1 Analysis Supp. attached(>5cfs/500af)
1 Water delivered by water master?
Water District # _____

PROCESSING

Yes No

PRIORITY DATE: 7/28/93

X (Include Moratorium Remark)

X Statewide Avertising: (Diversion rate greater than 10 cfs or 1,000 af).

ADVERTISE IN: KOOTENAI County.

LETTERS SENT REQUESTING:

() Dam Information () Fish Information

() Power Information () Other: _____

INFORMATION RECEIVED:

() Dam Information () Fish Information

() Power Information () Other: ASSOCIATION OFFICERS

***** GROUNDWATER SECTION *****

(Yes)(No)

Checked by: _____ Date: ____/____/____

Remarks: _____

- X Groundwater management area
X Critical ground water area
____ Well Drilling Permit required
____ Well Drilling Application and Fees received
____ Well Drilling Application approved?
____ Well Drilling Application Number _____

***** FINAL REGIONAL PROCESSING/REVIEW *****

(Yes)(No)

- ____ Notice of pending void order issued. Final order response date: ____/____/____
1 Further information required from applicant
1 Affidavit of publication received
1 Application published correctly, If not, record action taken: _____
1 Publication dates and paper recorded on application | Sr. Agent initial AB
1 Protests received. Final protest date: 9/7/93
____ Measuring device required
____ Measuring port required
____ Special conditions: _____
____ Special conditions of approval supplement and/or cover letter attached:

Approval Recommended by: AB RMA

Date: 9/1/93