

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
JUN 28 1991

A. GENERAL INFORMATION

Department of Water Resources
Permit No. 95-8672

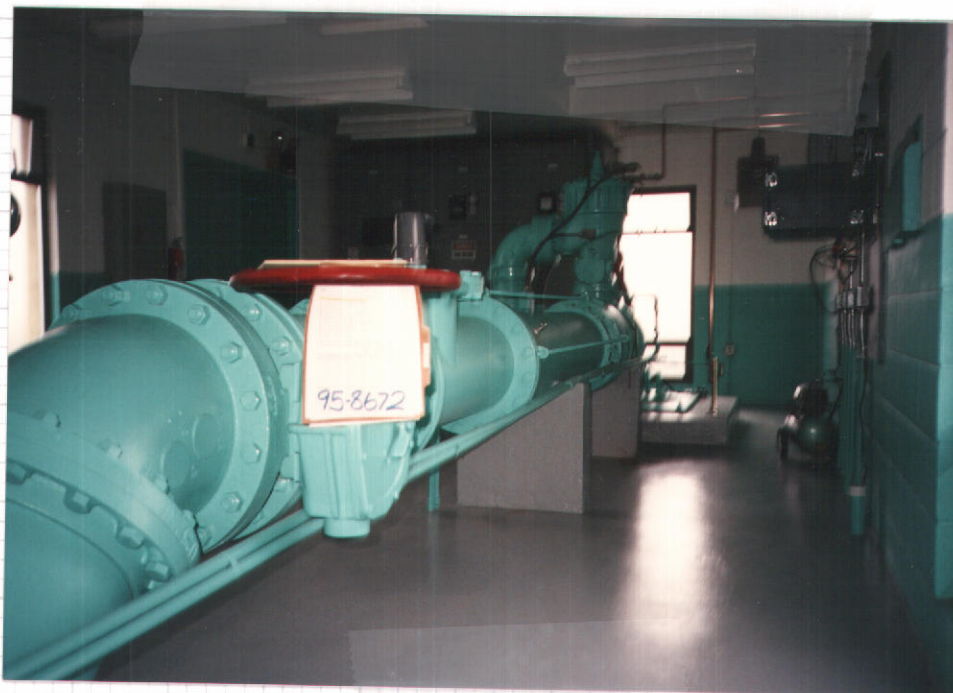
1. Owner: City of Coeur d'Alene Phone No. (208) 667 9533
Current Address: E. 710 Mullan Ave. Coeur d'Alene ID 83814-3958
2. Accompanied by: TOM HOWARD EXAM. DATE: 3/21/91
Address: _____ Phone No. _____
Relationship to Permit Holder: WATER PLANT OPERATOR
3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: SEE ATTACHED
_____ ☐ Copies Attached
2. Other water rights with same point of diversion: NONE
_____ ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

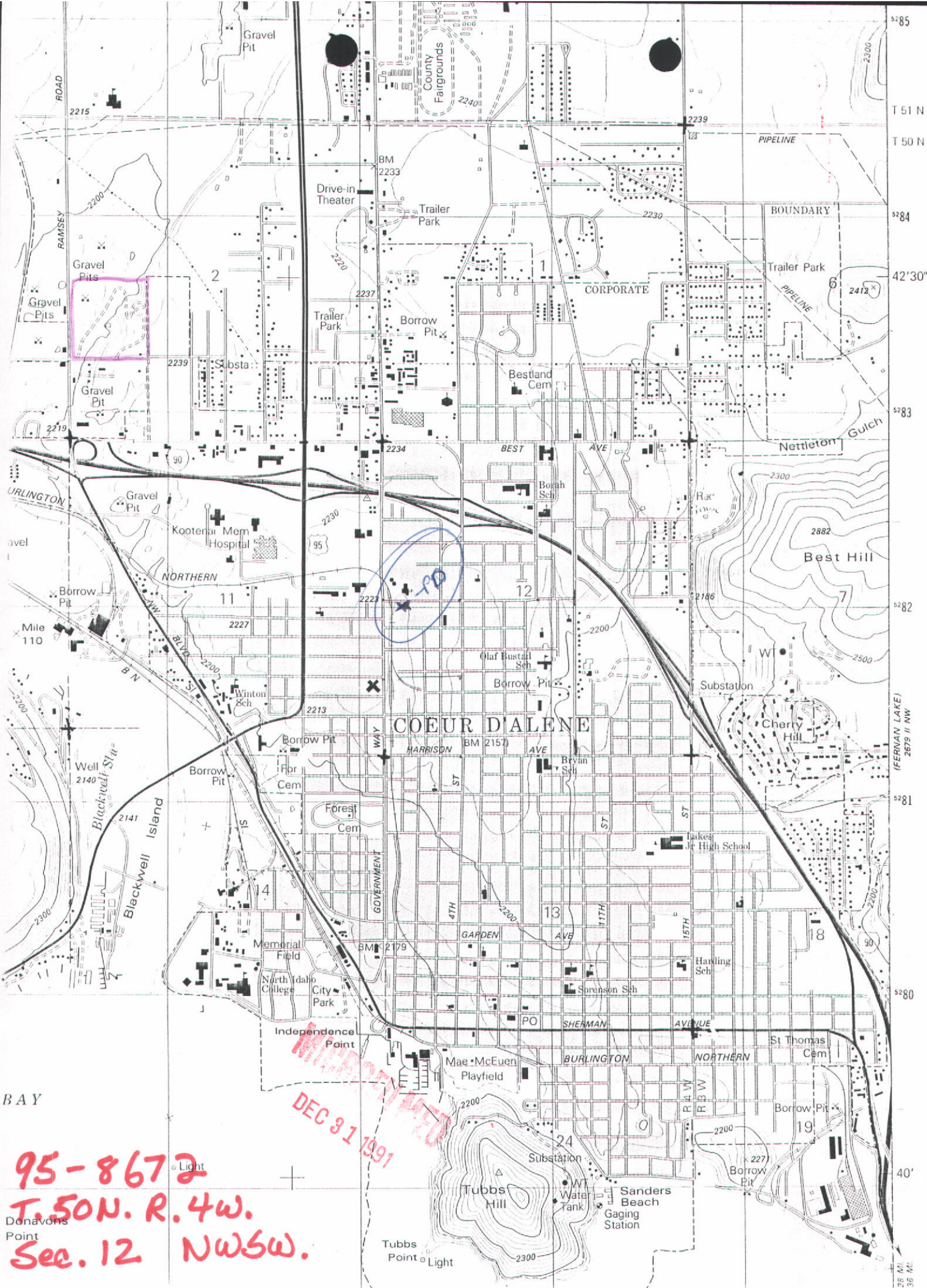
1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☒ Alternative diagram attached



Scale: 1" = _____

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

RECORDED
DEC 31 1991



BAY

95-8672
T.50N. R.4W.
Sec. 12 NWSW.

DEC 31 1991

5285
T 51 N
T 50 N
5284
42'30"
5283
5282
5281
5280
40'

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 95-08672

Priority: August 27, 1990

Maximum Diversion Rate:

3.00 CFS

This is to certify, that CITY OF COEUR D ALENE
E 710 MULLAN AVE

COEUR D ALENE ID 838143958 has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated August 27, 1990; and has submitted Proof of Beneficial Use on December 20, 1990. An examination indicates that the works have a diversion capacity of 6.900 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>
MUNICIPAL	01/01 to 12/31	3.00 CFS	

LOCATION OF POINT(S) OF DIVERSION:

NWSW , Sec. 12, Township 50N, Range 04W
KOOTENAI County

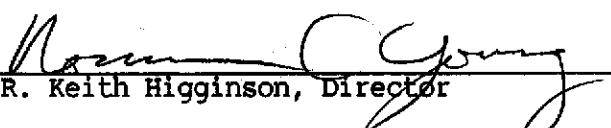
PLACE OF USE: See Remarks

CONDITIONS/REMARKS:

1. This water right is appurtenant to the described place of use.
2. This right is subject to all prior water rights and may be forfeited by five years of non-use.
3. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
4. Place of use located within the city limits of Coeur D Alene.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. Witness the seal and signature of the Director, affixed at Boise, this 18TH day of DECEMBER, 1991.

Acting for


R. Keith Higginson, Director

MICROFILMED

DEC 21 1991

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 95-08672

Proposed Priority: August 27, 1990 Maximum Diversion Rate: 3.00 CFS

This is to certify, that CITY OF COEUR D ALENE

E. 710 MULLAN AVE.

COEUR D ALENE, ID 838143958

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

BENEFICIAL USE

PERIOD OF USE

RATE OF DIVERSION

MUNICIPAL

01/01 to 12/31

3.00 CFS

LOCATION OF POINT(S) OF DIVERSION:

NWSW Sec. 12, Township 50N, Range 04W
KOOTENAI County

PLACE OF USE: See Remarks

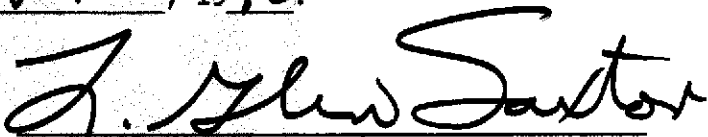
CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before November 1, 1991.
2. Subject to all prior water rights.
3. A flow measurement port or other device as specified by the Department shall be installed by the permit holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
4. Place of use located within city limits of Coeur D Alene.

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

14th day of November, 1990.

for


R. Keith Higginson, Director

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NOV 28 1990

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant City Of Coeur d'Alene Phone (208) 667-9533
Post office address E. 710 Mullan Ave., Coeur d'Alene, ID 83814-3958
2. Source of water supply Ground Water which is a tributary of N/A
3. Location of point of diversion is NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of $\frac{1}{4}$, Govt. Lot
Sec. 12 Township 50 N Range 4W B.M. Kootenai County; additional
points of diversion if any:
4. Water will be used for the following purposes:
Amount 3.0 for Municipal purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount for purposes from to (both dates inclusive)
(cfs or acre-feet per annum)
Amount for purposes from to (both dates inclusive)
(cfs or acre-feet per annum)
Amount for purposes from to (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 3.0 and/or (b) 3.6 Existing Permit No. G-25671
cubic feet per second acre feet per annum
6. Proposed diverting works:
 - a. Description of ditches, flumes, pumps, headgates, etc. Install new larger pump (3000 GPM)
and motor at 114 Locust Ave. This application to augment existing permit no. G-25671
95-02111 TDK
OF BU PROOF
(copy attached) existing well.
 - b. Height of storage dam N/A feet; active reservoir capacity acre-feet; total
reservoir capacity acre-feet; period of year when water will be diverted to storage:
 to inclusive.
 - c. Existing 26" Casing
Proposed well diameter is 18"-12" Screens inches; proposed depth of well is 285 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
1 year years (minimum 1 year).

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NOV 28 1990

SECRET

~~N/A~~ applicant to make this filing.

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the

b. Who owns the land to be irrigated or place of use?

11. a. Who owns the property at the point of diversion? City of Coeur d'Alene

10. Describe any other water rights used for the same purposes as described above. City has three (3) other wells with an application pending on a 4th well and the Lake source, copy attached.

Total number of acres to be irrigated.

[illegible]

ponding place of use below. See instructions for standard symbols.

b. If water is used for other purposes, place a symbol of the use (example: *D for Domestic*) in the corresponding column.

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

9. Description of place of use: City of Colne D'Almeida

e. Other; describe fully.

d. Domestic; show number of households.

c. Municipal; show name of municipality. ~~City of Coeur d'Alene, Idaho~~

b. Stockwatering; list number and kind of livestock.

a. Hydropower; show total feet of head and proposed capacity in kW.

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

TSO NR 1W
SGL 12

xp

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NOV 2 9 1999

MICROFILMED

~~NOV 28 1990~~

Application for permit to appropriate the public waters of
Ralph J. Sargent
City of Grand Island Water Dept.
 (Applicant) Superintendent

MICROFILMED
NOV 28 1990

e. Other:

- 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.
- 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.

19

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

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

Idaho No. _____, and said application is hereby _____

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

Received by _____ Date 8/27/90 Time 1:25pm Preliminary check by TDK

Fee \$ 85.00

Received by _____ Date 8/29/90 # N4036 Date 8/27/90

Publication prepared by _____ Date 8/29/90 Published in 9/6-73/90

Publication approved by _____ Date 9/17/90

CITY OF COEUR D'ALENE WATER SYSTEM WATER RIGHTS

1. 4th Street Well #95-7181 for 5.73 CFS and #G-28886 for 2.27 CFS TOTAL = 8 CFS
2. Atlas Well #95-7142 for 2.45 CFS/#95-8565 7.55 CFS = 10.0 CFS
3. Linden Well #33413/95-2198 for 5.12 CFS
4. Locust Well #⁹⁵⁻⁰²¹¹¹~~G-25671~~ for 3.6 CFS
5. Coeur d'Alene Lake - No official water right (water right by priority use). And claim to water right permit #95-4322
6. Application pending for new well on Hanley Avenue 95-8647 for 8.92 CFS

a:ralph.106

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NOV 28 1990

Permit No. G-25671

**Proof of Application of Water to Beneficial Use
and Completion of Works
Deposition of Witness**

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. T. O. Miller, 56, District Locating Engineer, State Highway Department, Box 496, Coeur d'Alene, Idaho

Ques. 2. Are you acquainted with Idaho Water Company, the holder of Permit No. G-25671? How long have you known him and where does he reside?

Ans. Place of business: Coeur d'Alene, Idaho
Since 1930

Ques. 3. Have you read or heard read said Permit No. G-25671, and are you familiar with its provisions and conditions?

Ans. Yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. A well. Place of diversion: NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Sec. 12, Twp. 50 N., R. 4 W.B.M., Kootenai County, Idaho
A Byron-Jackson pump, with 150 hp U.S. Motor, discharging water into a 12" main for a distance of 60 feet, reduced to an 8-inch main, and then flowing into the Coeur d'Alene distribution system, at approximately First and Locust, Coeur d'Alene, Idaho.

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. 3.6 cubic feet

Ques. 6. (Pumps) How much water in cubic feet per second, miner's inches, or gallons per minute have you seen the pump deliver, and how did you measure or estimate the amount?

Ans. 1630 gal. per minute, measured by a pitot tube at the opening in a 6" fire hydrant.

Ques. 7. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Domestic consumption in Coeur d'Alene, Idaho.

Ques. 8. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. Not applicable (answered by Ans. to Ques. 7)

Ques. 9. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. Not applicable.

Ques. 10. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. Only as a consumer of domestic water.

Ques. 11. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. Observed it measured and being discharged into distribution system.

(Signed) T.O. Miller

I hereby certify that the foregoing testimony was read to the above subscriber before signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Coeur d'Alene, County of Kootenai, State of Idaho, on this 29 day of April, A. D. 1960.

Ruby Hiland

Notary Public.

My commission expires August 25, 1962

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO,
County of Kootenai,

} ss.

Juli Jacob

being first duly sworn upon oath deposes and says:

1. I am now and at all times hereinafter mentioned was a citizen of the United States, resident of the State of Idaho, over the age of twenty-one years and not a party of the above entitled action.

2. I am now and at all times hereinafter mentioned was the printer (principal clerk) of the "Coeur d'Alene Press," a newspaper printed and published daily except Sunday in Coeur d'Alene, Kootenai County, Idaho, and having a general circulation in said county.

3. The

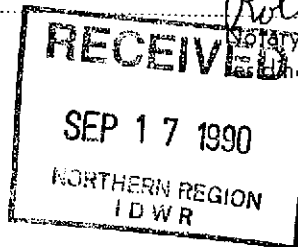
Legal Notice

of which the annexed is a printed copy, was published in the regular *Thurs* issue of said newspaper for *2* consecutive *weeks* commencing on the *6th* day of *September*, 19*90*, and ending on the *13th* day of *September*, 19*90*, and such publication was made as often during said period as said *Daily* newspaper was regularly issued.

4. That said newspaper has been continuously and uninterruptedly published in said Kootenai County, during a period of more than seventy-eight consecutive weeks immediately prior to the first publication of said notice.

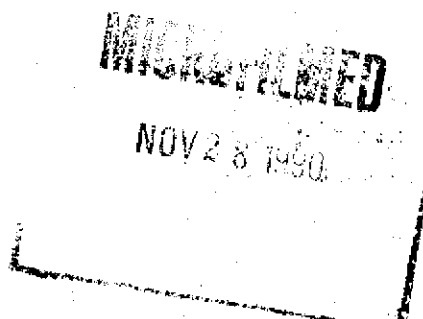
Juli Jacob

Subscribed and sworn to before me this *13th* day of *September*, 19*90*.



Roberta Manley
Notary Public for the State of Idaho,
Living at Coeur d'Alene, Idaho.

ROBERTA MANLEY
My commission expires *2-3-93*



NOTICE OF APPLICATION FOR WATER RIGHT

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

95-08669

PORTERFIELD, FRANCIS L.
PORTERFIELD, MILDRED K.
6365 E. PRAIRIE AVE.
POST FALLS, ID 83854
Source: GROUNDWATER
Diversion Pt: SESW Sec 20 T 51N R 04W
Use: IRRIGATION (2.800 CFS)
Total Diversion: (2.800 CFS)
Date Filed: 8/7/1990
In: T51N R04W S20 NESW NWSW SWSW
SESW NWSE SWSE
140.0 ACRES TOTAL

95-08670

KARRER, ULRICH G.
11 MANZANITA PL.
MILL VALLEY, CA 94941
Source: COEUR D ALENE LAKE
Tributary: SPOKANE RIVER
Diversion Pt: SENW Sec 23 T 49N R 04W
Use: DOMESTIC (.040 CFS)
Total Diversion: (.040 CFS)
Date Filed: 8/14/1990
In: T49N R03W S23 SENW
95-08671

ALLEN, PETE
E. 5144 I-90, BENNETT BAY
COEUR D ALENE, ID 83814
Source: GROUNDWATER
Diversion Pt: SWSW Sec 28 T 50N R 03W
Use: COMMERCIAL (.040 CFS)
Total Diversion: (.040 CFS)
Date Filed: 8/27/1990
In: T50N R03W S28 SWSW
95-08672

CITY OF COEUR D ALENE
E. 710 MULLAN AVE.
COEUR D ALENE, ID 838143958
Source: GROUNDWATER
Diversion Pt: NWSW Sec 12 T 50N R 04W
Use: MUNICIPAL (3.000 CFS)
Total Diversion: (3.000 CFS)
Date Filed: 8/27/1990
In: PLACE OF USE IS LOCATED
WITHIN THE CITY LIMITS OF COEUR
D ALENE.

95-08673

AGEE, ELOISE R.
324 LACROSSE AVE.
COEUR D ALENE, ID 83814
Source: COEUR D ALENE LAKE
Tributary: SPOKANE RIVER
Diversion Pt: SENWNW Sec 23 T 49N R 04W
Use: IRRIGATION (.060 CFS)
DOMESTIC (.040 CFS)
FIRE PROTECTION (.200 CFS)
Total Diversion: (.200 CFS)
Date Filed: 8/10/1990
In: T49N R04W S23 NWNW
2.0 ACRES TOTAL

For additional information concerning the property location, call the Northern Regional Office at 765-4639.

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Northern Region, 1910 Northwest Blvd., Suite 210, Coeur d'Alene, Idaho 83814 on or before SEPTEMBER 24, 1990.

R. KEITH HIGGINSON, Director
Legal 403
Sept. 6, 13, 1990

December 20, 1991

CITY OF COEUR D ALENE
E 710 MULLAN AVE
COEUR D ALENE ID 838143958

RE: WATER RIGHT NO. 95-08672

Dear Water Right Holder(s):

Enclosed herewith is a copy of the Water Right License issued on the above referenced permit.

Sincerely,

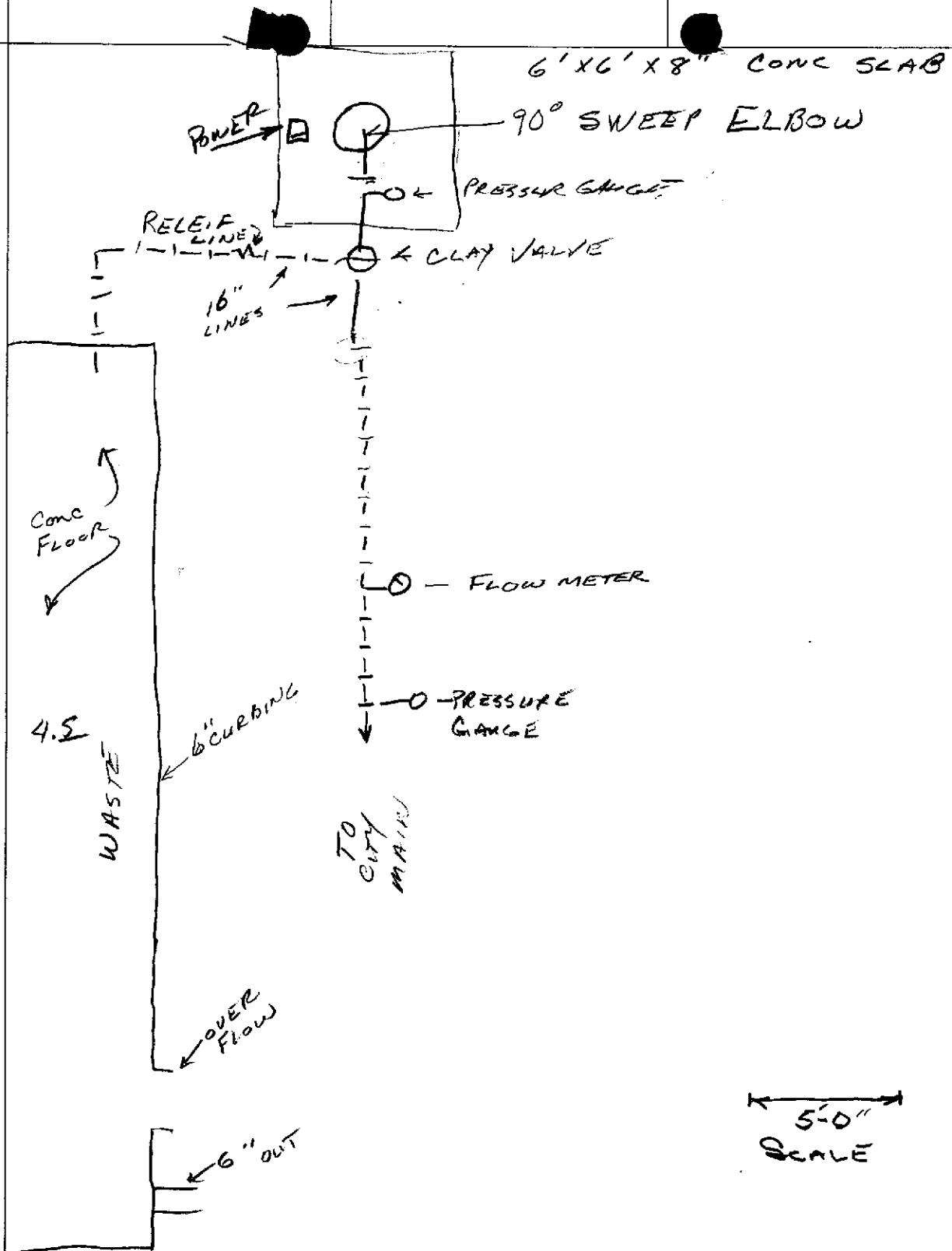
SHARLA CURTIS
Water Resource Agent

SC:blm

Enclosure

RECORDED

DEC 31 1991



DEC 31 1991

STATE OF IDAHO
DEPATRMANT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT SUPPLEMENT
INITIAL CHECK LIST

STATUS

Y/N/* (* = see remarks)

- N Non-Standard Approval Conditions (If yes attach copy of conditions)
Y Measuring ~~Device~~ required **PORT**
Y Report labled and Quad sheet attached
N Aerial Photo requested: date _____ by _____
N Aerial Photo attached
* Subdivision or Ownership Plat attached
N Government Lot Plat attached
Y Additional Information from microfische attached
Y Possible Overlap found, Abstract attached
N Well log numbered and attached
Y Well inspection form numbered and attached
Y Plotted on exam maps
Y Ready For Field Examination

Person to contact for Appointment: Larry Patton

Phone (208) 667 9533 ext 211 Address E. 710 Mullan Ave.

Coeur d'Alene ID 83814-3958

Remarks: ~~Request Map from City showing areas~~
~~actually served.~~

PERMIT NUMBER

95-8672

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
JUN 28 1991

Department of Water Resources
Permit No. 75-8672

A. GENERAL INFORMATION

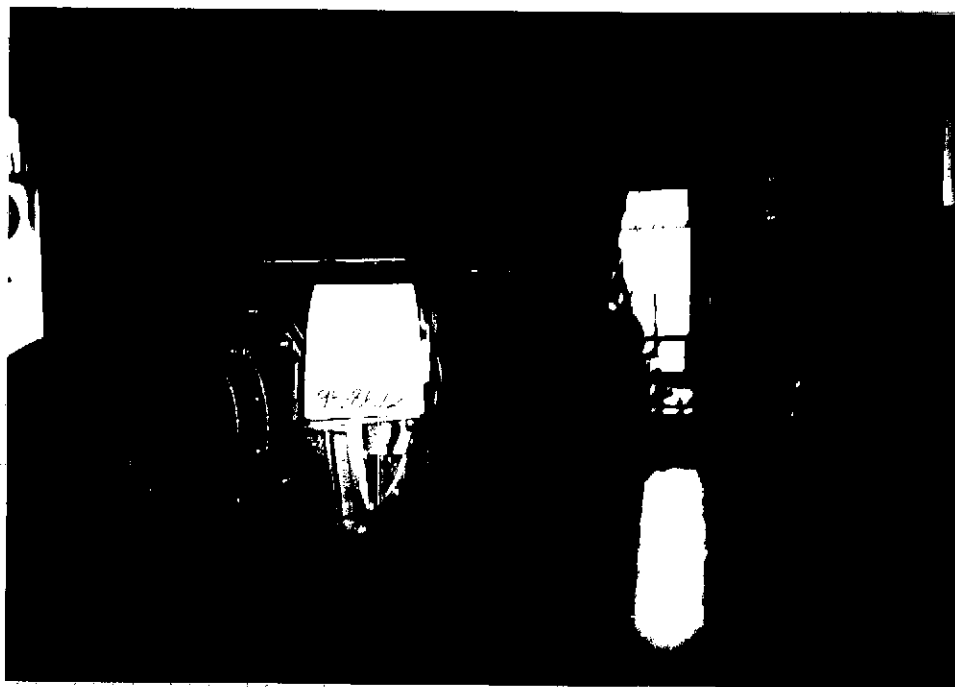
1. Owner: City of Coeur d'Alene Phone No. (208) 667 9533
Current Address: E. 710 Mullan Ave. Coeur d'Alene ID 83814-3958
2. Accompanied by: TOM HOWARD EXAM. DATE: 3/21/91
Address: _____ Phone No. _____
Relationship to Permit Holder: WATER PLANT OPERATOR
3. Source: Ground water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: SEE ATTACHED ☐ Copies Attached
2. Other water rights with same point of diversion: NONE ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

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



Scale: 1" = _____

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

DEC 31 1991

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

A 26" X 285' WELLS 10/5002 @ 175', A 16" PIPE TO CITY MAIN.

☐ See Remarks on page 4 for continuation

Well or Diversion Identification No.*	350	90180410	350	350	350
Motor Make	BYRON JACKSON				
Hp	350	90180410	350	350	350
Motor Serial No.					
Pump Make	SAME				
Pump Serial No. or Discharge Size	350 / 16"				

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

5. Point(s) of Diversion:

[illegible]

6. Place(s) of Use: City of Casco Maine
Indicate Method of Determination.

[illegible]

Do not use this space

1661 13 0000

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
FLOW METER SPARKLING	A50-1D	SPARKLING	A50-1D	126066-1		3/8/91

2. Measurements:

3000 gpm Direct reading = 6.68 cfs
448.8

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

8.9 (350) 70% 6.9 cfs
2.3 (60) + 175

F. PUMP EFFICIENCY DATA (Optional)

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

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

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

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

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

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

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

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

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

2. Volume Calculations for Other Uses:

DEC 31 1991

H. REMARKS AND OVERLAP REVIEW ANALYSIS

95-0211 Municipal @ 3.0
 95-09672 " 3.0
 6.0 cfs total

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
	From To	Q (cfs)	V (afa)
Municipal	1-1 12-31	3.0	

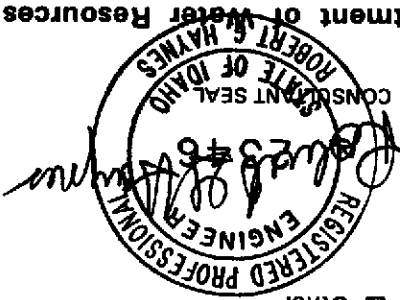
2. Recommended Amendments

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

J. AUTHENTICATION

Field Examiner's Name Tom D. King
 Signature [Signature]
 Certification Date 4/10/90
 Field Report Preparation Date 3/21/91

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



DEC 8 1 1991

CITY OF COEUR D'ALENE WATER SYSTEM WATER RIGHTS

1. 4th Street Well #95-7181 for 5.73 CFS and #G-28886 for 2.27 CFS TOTAL = 8 CFS
2. Atlas Well #95-7142 for 2.45 CFS/#95-8565 7.55 CFS = 10.0 CFS
3. Linden Well #33413/95-2198 for 5.12 CFS
4. Locust Well #^{95-02///}~~G-25671~~ for 3.6 CFS
5. Coeur d'Alene Lake - No official water right (water right by priority use). And claim to water right permit #95-4322
6. Application pending for new well on Hanley Avenue 95-8647 for 8.92 CFS

a:ralph.106

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State of Idaho
Department Of Water Resources
WELL INSPECTION FORM

If well is associated with water right, provide WR Permit No. 95-8672

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

1. Legal Description of Well Location:

Twp. 50 N, Rge. 4W Sec. 12, NW $\frac{1}{4}$ SW $\frac{1}{4}$ Gov. Lot _____

2. Owner: City of Coeur d'Alene

Address: E. 710 Mullan Ave

City Coeur d'Alene, State ID 83814-3958

3. Casing $\geq$ 12 inches above ground: Yes ☒ No ☒ SEE REMARKS

4. Access Port: Y ☒ N ☒

Pressure Gauge: Y ☒ N ☒

Flowing: Y ☐ N ☒

Static Water Level: 173

Casing Diameter: 16"

Temperature:

5. Are there any obvious construction problems that may be a source for contamination or waste of water: Y ☐ N ☒

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

Remarks: Hand dug with well screening added.

Original digging in 1955, well screening added 1968

WELL SEALED WITH ~~6"~~ CONCRETE SLAB 8" THICK

6" FLOOR

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DEC 31 1991

December 28, 1990

CITY OF COEUR D ALENE
E. 710 MULLAN AVE.
COEUR D ALENE, ID 838143958

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 95-08672

Dear Permit Holder:

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

If you have questions concerning this matter, please feel free to contact the NORTHERN Regional Office in Coeur D' Alene at (208)765-4639.

Sincerely,

Rita Fleck
Secretary/Records Manager

c: IDWR - Region

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FEB 08 1991

ANALYSIS SHEET
for
PROOF OF BENEFICIAL USE

Permit No. 95-8672

Date 12-27-90

GENERAL CONSIDERATIONS

- ☒ Name same as permit?
☒ Address same as permit? If no, prepare data entry form.
☒ Proof timely received? If no, complete priority advancement below.

SOURCE OF WATER

- ☐ Surface water source
☒ Ground water source
☒ Drill permit req'd?
☐ Copy in file? Drill permit no. N/A
☐ Well log in file?
☐ Amt paid for drilling permit? Correct?

LICENSE EXAMINATION FEE

- ☒ Required?
☒ Amount submitted? 1.50
☒ Correct amount?

MEASURING DEVICE

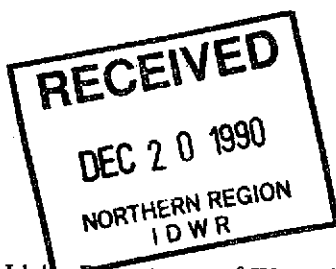
- ☒ Measuring device or access port required?
☒ Installed?
☒ Waiver requested or needed?

DEFICIENCIES OR ACTION ITEMS

Proof acceptable

PRIORITY CALCULATION

Date proof received JB
Date proof due
No. of days late
Priority date
NEW PRIORITY DATE



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
PROOF OF BENEFICIAL USE

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

Permit No. 95-8672 Telephone No. 667-9533

Name(s) of Permit Holder(s): City of Coeur d'Alene

Post Office Address: E. 710 Mullan Ave. Coeur d'Alene, Id. 83814-3958

Source of Water: Groundwater

If ground water, well driller's name: Joe Waller 1955 (Hand dug) Date drilled: Installed Well Screening

Extent of Use:
Domestic (No. of households) Irrigation (No. of acres)
Stockwater (No. and type of stock) Other Municipal

Total rate and/or volume for which proof is submitted 3.0 cfs acre/feet

Show date water was first diverted and beneficially used under this permit: July, 1990

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

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

OR

Flow Measurement Port: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ No

Fee Enclosed: \$ (See License Examination Fee Schedule)

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

Larry Patton 667-9533 X 211
Name Telephone No.
Same as above.
Address

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FEB 08 1991

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.

12/17/90 Rodger Wm Lewerenz Public Works Director
Date Signature (and title if on behalf of a company or organization)



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

December 3, 1990

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

Mr. Ralph Capaul
Water Superintendent
City Hall
8th and Mullan
Coeur d'Alene, ID 83814

Dear Mr. Capaul:

Enclosed with this letter is a copy of a report documenting the results of energy efficiency evaluations which were recently conducted for pumps in the City of Coeur d'Alene, Idaho. This letter specifically contains important information regarding the results of flow measurements made during the tests.

Four instruments have been used to determine flow rates, including the City's Sparling meters, the Hall modified pitot tube, the Collins meter, and the Polysonics TF-P. Following is a short description of each measuring device and how it was used to calculate the flow rate.

SPARLING METER

The Sparling meter is a propeller driven flow meter, permanently installed at both pumping locations, which gives an instantaneous flow reading as well as a total volume reading. Flow was calculated by timing revolution of the totalizing meter. A set amount of meter revolution was timed, and the average time was divided into the volume represented by the revolution, resulting in a flow rate with units of gallons per minute.

HALL MODIFIED PITOT TUBE

The Hall modified pitot tube is inserted into the pipe through a 3/4" threaded access port, and is used in conjunction with a manometer (an inverted "U" tube). The Hall meter has a series of holes on one side of the tube and one hole on the opposite side. The series of holes faces upstream and is connected to the "pitot tube," while the "static tube" is connected to the single downstream hole. The static tube measures the static pressure in the pipe while the pitot tube measures the static pressure plus the flow pressure. These two tubes are connected to either side of the manometer which is partially filled with water. The resulting difference between the two levels of water in the manometer tubes

can be correlated with the average velocity of flow in the pipe. Flow rate is calculated by multiplying the velocity by the inside area of the pipe.

COLLINS METER

The Collins meter works on the same principal as the Hall meter; it is a Pitot flow device used in conjunction with a manometer. The Collins meter is a tube inserted into the flow pipe through two holes tapped on either side of the pipe. The Collins tube has two holes in it; one facing upstream, the other facing downstream. These pitots are connected to either side of the manometer, and the holes are moved to certain positions across the cross-section of the flow pipe while the velocity is recorded from the manometer. The average velocity is computed and multiplied by the inside area of the pipe resulting in the flow rate.

POLYSONICS TF-P

The Polysonics TF-P meter is a non-contact flowmeter that utilizes sound waves to determine the flow velocity. Two transducers are mounted on the outside of the pipe, one a certain distance downstream from the other. Each transducer sends sound waves to, and receives sound waves from, the other. The flow of water speeds downstream-travelling sound and slows upstream-travelling sound. A computer measures the difference in velocities and uses this information to calculate an average velocity of flow in the pipe. This velocity is multiplied by the inside area of the pipe resulting in a flow rate (gpm).

FLOW MEASUREMENT RESULTS

ATLAS ROAD PUMP

Flow at the Atlas Road pumping station was measured on 11/15/90 using the City's Sparling meter and IDWR's Polysonics TF-P meter. Flow measurements were also conducted in 1987 with the Collins meter and the City's Sparling meter. Following are the results of the measurements:

<u>DATE</u>	<u>FLOW RATE (GPM)</u>			<u>DISCHARGE PRESSURE (PSI)</u>		
	<u>IDWR</u>	<u>CITY</u>	<u>% DIFFERENCE</u>	<u>IDWR</u>	<u>CITY</u>	<u>% DIFFERENCE</u>
11/15/90	3628*	3909	+7.7	82	82	0.0
8/04/87	1155**	1243	+7.6	46	--	---

* Polysonics TF meter

** Collins meter

The previous IDWR flow measurements of the Atlas Road pump seem to confirm the +7.7 percent difference between the actual flow and the City's Sparling meter reading (multiply the Sparling meter reading by 0.928 for correct flow).

LOCUST STREET PUMP

Three flow measurement devices were used at the Locust Street pump because of discrepancies between readings. Following are the results from the 11/15/90 measurements:

FLOW RATE (GPM)			DISCHARGE PRESSURE (PSI)		
IDWR	CITY	% DIFFERENCE	IDWR	CITY	% DIFFERENCE
3127.8**	3041.0	-2.8	56	57	+1.8
2538.0*		+19.8			

* Polysonics TF-P meter

** Hall meter

The highest reading was obtained with IDWR's Hall meter. The City's meter recorded a flow rate about 3 percent less. However, IDWR's sonic meter measured a flow rate of 2538 gpm, which is nearly 20 percent less than the City's meter recorded. The difference between measurements can probably be attributed to a variety of factors. First, because three different meters were used, each with very different principles of operation, three different flow readings are likely. Second, none of the meters were installed in a completely satisfactory location. Disturbances to the flow, particularly because of the upstream check valve, can substantially affect the readings obtained with each meter.

Since I have used a Hall meter for several years for the majority of municipal pumps tested, and since IDWR only recently obtained sonic meters, I tend to have more confidence in the Hall meter. I may not be justified in feeling this way, since my feelings may simply be based on lack of experience in using the sonic meter. Nevertheless, IDWR continually evaluates the performance of various meters on the basis of many factors including accuracy and convenience. It is not unexpected to obtain different results with different meters. The significant difference in flow measurements may warrant a fourth flow measurement by a third party to help determine the actual efficiency of this pumping station. I would recommend that if any additional flow meters are used that they be installed in a variety of locations and orientations in order to minimize the effects of flow disturbances.

FEB 08 1991

If you have any questions about the results of the efficiency tests, if you need further assistance in identifying pumping plant problems, or if you need information or assistance concerning the loan program, please let me know. I can be reached by mail at the above address or by phone at 327-7961.

Sincerely,

Rick Sterling

Rick Sterling, P.E.
Resource Development and
Conservation Section Manager

RS/sk

Enclosure

cc: Larry Patton
City of Coeur d'Alene

Joe Stump
CH₂M Hill, Spokane

Mike Galante
H₂O Well Drilling

Don Wiley
Walker Construction

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FEB 08 1981



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 -(208) 327-7900

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

November 16, 1990

CITY OF COEUR D ALENE
E. 710 MULLAN AVE.
COEUR D ALENE, ID 838143958

PERMIT APPROVAL NOTICE

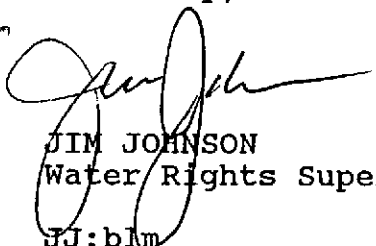
RE: PERMIT NO. 95-08672

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.

Be sure to note the special condition requiring you to install a measuring device. Enclosed, for your reference, is a list of measuring device options.

Sincerely,


JIM JOHNSON
Water Rights Supervisor

JJ:blm

Enclosures

MicroFILMED

NOV 28 1990

APPLICATION FOR PERMIT REVIEW

Date: 11-5-1990

Reviewer: ~~Jim Johnson~~
Pam Skaggs

Existing:

No - 26A-P17
Complete in 1 year - P16

Yes

Proof not submitted - P16
Proof submitted - N/A

Groundwater:

GT. 0.7 cfs - 01G-P03, 01C-P03(existing well)
LT. 0.7 cfs - N/A

Drilling Permit:

Approved w/permit - P99
Not included - 046-P23

Location:

Water Districts - WD No. _____
surface water - 005-P01, 005-01H-P01, 005-01J-P08, P04
groundwater - P05, 005-01H-P01(lock device)

Irrigation Districts - 023
Canal Co. Areas - 023
Drainage Districts - 024
Boise Front (63) - 58 (Groundwater)
Trust (see list) - (051, 052, 053)-P74
Non Trust (see list) - 048, 049

River Basins:

Boise (63) SW - 11D-P72
Payette (65) - 047, 059-P71
Surface - 005,
Snake (01) - 11A, 061-P22

Use:

Fish Propagation - (P06) 002, 06A, 007, 09E-P10, 010, 042, 044
Power - (less than 25cfs P18), 01F-P19, 008, 08A, 09E-P10, 017K, 017G, 017M, 025
Mining - 06A, 006, 09E-P10, 010, 54
Storage - 18A-P09, 18B-P09
Domestic - (restricted areas) 021

Ownership:

Non land owner - 004

Protested:

Agreement - 020

Minimum Stream Flow:

Overlapping uses - 029-P20

Beneficial Use Due Date: - 11-1-1991

Swan Falls Flag: - Blank

Form No. 202a.
4/87-8/89N

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

INITIAL REVIEW BY: TDK DATE: 8/28/90 APPLICATION NUMBER: 95-08672

APPLICANT: _____

REQUIRED INFORMATION

- (1). (X) Name & Address: (If applicant is a corporation or partnership, names must be provided for the director, officers, and other partners.)
- (2). (X) Source: (See USGS Quad for names of water sources)
- (3). (X) Point of Diversion including county: (spring/10 ac., Subd. lot & block)
- (4). (X) Quantity: (flow and/or volume)
(X) Nature of proposed use: (Include description of use)
(X) Period of use:
- (5). (X) Total Quantity: (flow and/or volume)
- (6). (X) Description of diverting works:
- (7). (X) Time required for beneficial use of water:
- (8). (X) Proposed uses:
- (9). (X) Place of use or acres irrigated:
- (10). (X) Other Water Rights:
- (11). (X) Ownership:
- (13). (X) Map:
(X) Signature: (signator title required for corp., partnership, etc)
(X) Fee: (Amount, receipt number and date recorded on application)
(X) Acknowledgement Letter:
(X) Overlap Review: Attachment? (Y) X (N) _____ Remarks? (Y) _____ (N) _____

ADDITIONAL INFORMATION

YES NO

- ___ X Field check required: Field check by: _____
- ___ X Field report attached:
- ___ X Critical groundwater area:
- ___ X Groundwater management area:
- ___ X Send dam safety information:
- ___ X Send fish farm requirement letter:
- ___ X Send power requirement letter:
- ___ X Send Power residency affidavit:
- ___ X Send Power efficiency form:
- ___ X Within trust water boundry: (Attach Trust Water Supp. Analysis Sheet):
- ___ X Diversion greater than 5 cfs or 500 af, supp. analysis sheet attached:
- ___ X Well drilling permit required:

PROCESSING

YES NO

- X ___ In form for advertising:
- ___ X Statewide advertising: (10.00 or more cfs.)

Send Copies To

YES NO

- X ___ I.D. H & W
- ___ X I.D. F & G
- ___ X I.D. Lands
- ___ X Adj. Bur.

YES NO

- ___ X U.S. BLM
- ___ X U.S.F.S.
- ___ X W District # _____
- X ___ G.W. Prot. Div.

YES NO

- ___ X Other _____

RECEIVED
OCT 09 1990
Department of Water Resources

Application Number 95-08672

FINAL REGIONAL PROCESSING REVIEW

YES NO

 ☒ Additional information received:

 ☒ Notice of pending void order issued: Final date of order response.

 ☒ Affidavit of publication received:

 ☒ Application published correctly: If not, record action taken.

 ☒ Publication dates and paper recorded on application:

 ☒ Protests received, Final date for protest 9/24/90

 ☒ Recommendations attached:

 ☒ Measuring device required:

 ☒ Measuring port required:

 ☒ Water delivered by water master? District #

 ☒ Special conditions of approval or cover letter: (see additional info. below)

Recommended Date of Priority 8/27/90

Recommended by: TDK P4A Date 10/3/90

STATE OFFICE REVIEW

 See remarks for additional information. By Date

REMARKS

95-08672

CITY OF COEUR D ALENE
E. 710 MULLAN AVE.
COEUR D ALENE, ID 838143958

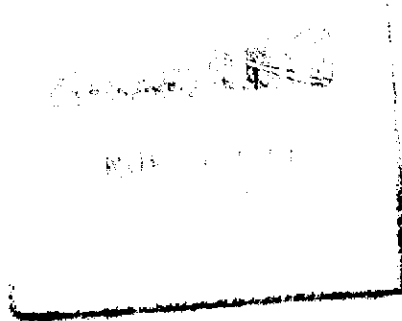
Source: GROUNDWATER

Diversion Pt: NWSW Sec 12 T 50N R 04W

Use: MUNICIPAL (3.000 CFS)
Total Diversion: (3.000 CFS)

Date Filed: 8/27/ 1990

In: PLACE OF USE IS LOCATED WITHIN THE CITY LIMITS OF COEUR D ALENE.





State of Idaho

DEPARTMENT OF WATER RESOURCES

NORTHERN REGION, Suite 210 • 1910 Northwest Blvd. • Coeur d'Alene, Idaho 83814 • (208) 765-4639

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

August 29, 1990

Idaho Divn. of Environment
2110 Ironwood Parkway, #101
Coeur d'Alene, Id. 83814

Re: 95-8672

Gentlemen:

Enclosed is a recent filing with this Department that may be of interest to your agency.

Sincerely,

ROBERT G. HAYNES, P.E.
Regional Manager

RGH/pms

Enclosure

