

State of Idaho  
Department of Water Resources

# WATER RIGHT LICENSE

WATER RIGHT NO. 95-07779

Priority: September 1, 1977

Maximum Diversion Rate:  
Maximum Diversion Volume:<sup>1</sup>

0.66 CFS  
244.7 AF

This is to certify, that CARL NAGEL  
RT. 3 BOX 206A

RATHDRUM, ID 838580000 has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated September 1, 1977; and has submitted Proof of Beneficial Use on October 4, 1982. An examination indicates that the works have a diversion capacity of .660 cfs of water from a **GROUNDWATER** source, and a water right has been established as follows:

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>RATE OF DIVERSION</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|--------------------------|----------------------|
| IRRIGATION            | 04/01 to 11/01       | 0.66 CFS                 | 241.5 AF             |
| STOCKWATER            | 01/01 to 12/31       | 0.02 CFS                 | 1.4 AF               |
| DOMESTIC              | 01/01 to 12/31       | 0.08 CFS                 | 1.8 AF               |
|                       | Totals               | 0.66 CFS                 | 244.7 AF             |

LOCATION OF POINT(S) OF DIVERSION:

SWNW , Sec. 1, Township 51N, Range 05W  
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        | 05W        | 1          | NWNW 30      | SWNW 39      |              | 69           |

PLACE OF USE: STOCKWATER

| <u>TWN</u> | <u>RGE</u> | <u>SEC</u> |
|------------|------------|------------|
| 51N        | 05W        | 1          |

SWNW

PLACE OF USE: DOMESTIC

| <u>TWN</u> | <u>RGE</u> | <u>SEC</u> |
|------------|------------|------------|
| 51N        | 05W        | 1          |

SWNW

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to reflect cropping patterns or acceptable standards of water delivery efficiency.

**MICROFILMED**

SEP 25 1989

State of Idaho  
Department of Water Resources

**WATER RIGHT LICENSE**

WATER RIGHT NO. 95-07779

CONDITIONS/REMARKS:

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

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 22<sup>ND</sup> day of AUGUST, 1989.

  
R. Keith Higginson, Director

RECEIVED  
SEP 22 1989

SEP 22 1989

BEFORE THE DEPARTMENT OF WATER RESOURCES  
OF THE STATE OF IDAHO

IN THE MATTER OF REMOVING THE MEASURING DEVICE )  
REQUIREMENT FOR PERMIT NO. 95-7779 IN ) ORDER  
THE NAME OF CARL NAGEL )

WHEREAS, on November 17, 1977, the Department of Water Resources issued Permit No. 95-7779 in the name of Carl Nagel with the requirement that:

For licensing purposes a scientific measurement of the diversion rate of the system as it is normally operated shall be provided by either properly installing an approved type of measuring device or by having a professional engineer certify the rate of diversion to the Department prior to submitting proof of beneficial use of water; and,

WHEREAS, on June 1, 1981, the department modified the measuring device requirement to:

The permit holder shall either install a measuring device or provide a certified measurement by a professional engineer or install an access port or other device as specified by the Department;

WHEREAS, on June 5, 1986, the Department received a request from the permit holders to remove the measuring device requirement; and,

WHEREAS, the Department of Water Resources has determined that no type of measuring device is required at this time for a determination of the quantity of water appropriated;

THEREFORE, the condition of approval requiring any type of measuring device is REMOVED.

Dated this 11<sup>th</sup> day of June, 1986.

  
L. GLEN SAXTON  
Chief, Operations Bureau

RECEIVED

BEFORE THE DEPARTMENT OF WATER RESOURCES  
OF THE  
STATE OF IDAHO

IN THE MATTER OF CHANGING THE MEASURING  
DEVICE REQUIREMENT FOR PERMIT NO. 95-7779

ORDER

WHEREAS, the above numbered permit was approved with the condition that a measuring device of a type approved by the Department be permanently installed and maintained as part of the diverting works; and,

WHEREAS, on July 1, 1978, the Department adopted a new water measurement condition which states: "An access 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"; and,

WHEREAS, the former condition required the permit holder to purchase and install a measuring device or hire a professional engineer to certify the rate of diversion; and,

WHEREAS, the measuring device condition effective July 1, 1978, requires less capital expenditure by the permit holder; and,

WHEREAS, to be equitable to holders of permits issued prior to July 1, 1978, the new condition should be retroactive;

NOW THEREFORE, it is hereby ordered that the condition of approval of this permit related to water measurement is hereby changed as follows:

"The permit holder shall either install a measuring device or provide a certified measurement by a professional engineer or install an access port or other device as specified by the Department".

Dated this 1<sup>st</sup> day of June 1981.

*Glen Saxton*

GLEN SAXTON  
Chief, Operations Bureau

Identification No. \_\_\_\_\_

Application No. 95-7779

**STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES**

**APPLICATION FOR PERMIT APPROVED**

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

1. Name of applicant Carl Nagel Phone: 772-5688  
post office address Hayden Lake, Idaho 83835
2. Source of water supply underground which is a tributary of \_\_\_\_\_
3. a. Location of point of diversion is SW  $\frac{1}{4}$  of NW  $\frac{1}{4}$  of Section 1 Township 51N  
Range 5W B.M. Kootenai County; additional points of diversion if any: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- b. If water is not consumed, it will be discharged into \_\_\_\_\_ at a point in \_\_\_\_\_  $\frac{1}{4}$   
of \_\_\_\_\_  $\frac{1}{4}$  of Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ B.M. \_\_\_\_\_
4. Water will be used for the following purposes:  
Amount 2.5 for IRRIGATION purpose from MAY 1 to OCT. 31 (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount 0.10 for DOMESTIC purpose from JAN. 1 to DEC. 31 (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount 0.02 for STOCK purpose from JAN. 1 to DEC 31 (both dates inclusive)  
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:  
a. 2.72 cubic feet per second and/or  
b. \_\_\_\_\_ acre feet per annum.
6. Proposed diverting works:  
a. Description of ditches, flumes, pumps, headgates, etc. \_\_\_\_\_  
well - pump - main + laterals  
\_\_\_\_\_  
\_\_\_\_\_  
b. Height of storage dam \_\_\_\_\_ feet, active reservoir capacity \_\_\_\_\_ acre feet; total reservoir  
capacity \_\_\_\_\_ acre feet, materials used in storage dam: \_\_\_\_\_  
Period of year during which storage will occur \_\_\_\_\_ to \_\_\_\_\_ inclusive.  
(Mo. Day) (Mo. Day)  
c. Proposed well diameter is 8 inches; proposed depth of well is 200 feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use  
is 5 years.  
b. Estimated construction cost is \$ 20,000.00.
8. Description of proposed uses:  
a. If water is **not** for irrigation:  
(1) Give the place of use of water: SW  $\frac{1}{4}$  of NW  $\frac{1}{4}$  of Section 1 Township 51N  
Range 5W B.M.  
(2) Amount of power to be generated: \_\_\_\_\_ hp under \_\_\_\_\_ feet of head.  
(3) List number of each kind of livestock to be watered 10 horses  
25 cows  
(4) Name of municipality to be served \_\_\_\_\_, or number of families to be  
supplied with domestic water 6.  
(5) If water is to be used for other purposes describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

| TWP. | RANGE | SEC. | NE 1/4 |        |        |        | NW 1/4 |        |        |        | SW 1/4 |        |        |        | SE 1/4 |        |        |        | TOTALS |
|------|-------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |       |      | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 |        |
| 51   | 5     | 1    |        |        | 40     |        |        | 30     | 40     | 40     |        |        |        |        |        |        |        |        | 150    |
| 52   | 5     | 36   |        |        |        |        |        |        |        |        | 10     |        | 20     | 5      |        |        |        |        | 35     |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

Total number of acres to be irrigated 185 -

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

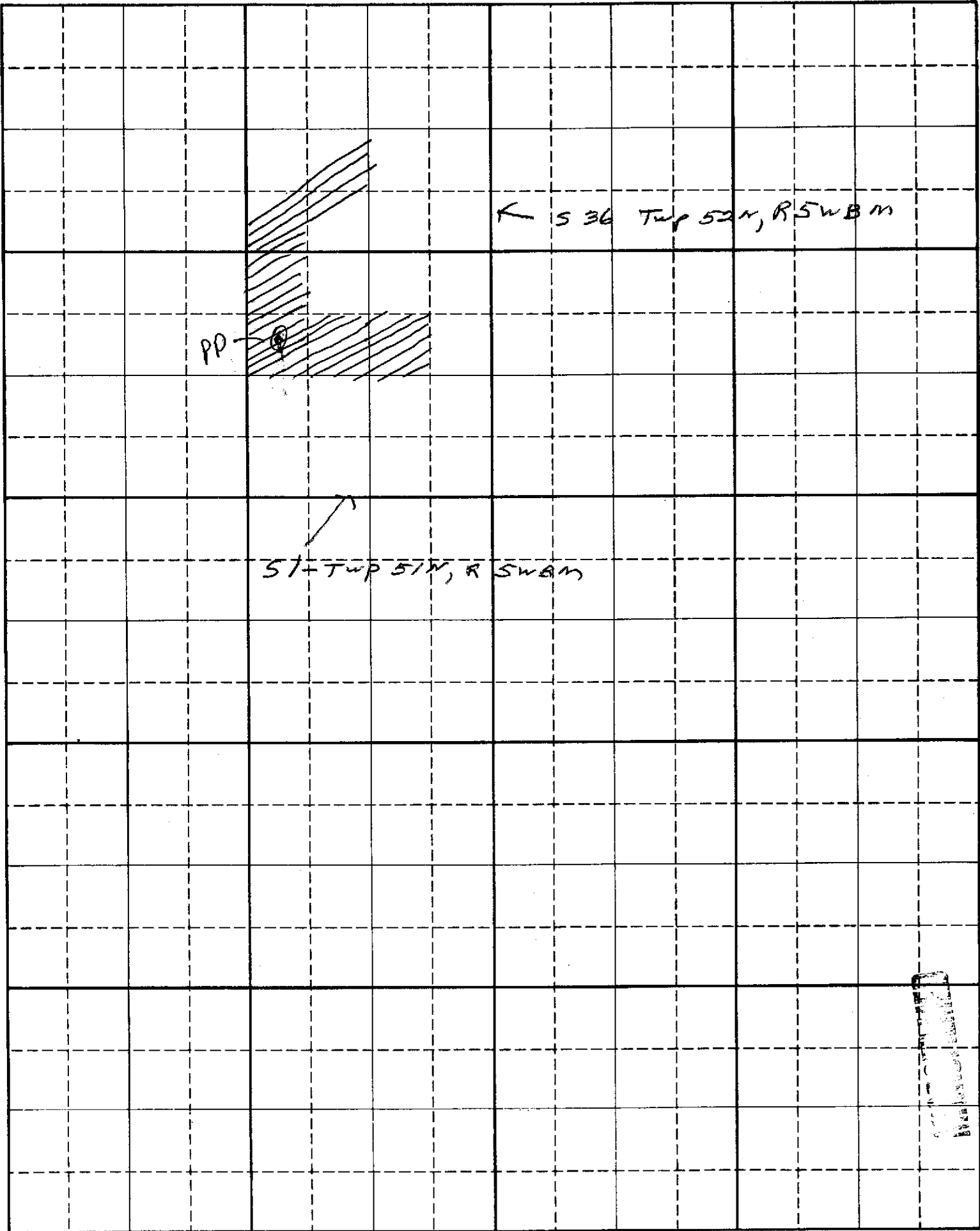
9. a. Who owns the property at the point of diversion Carl Nagel

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

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

10. Remarks

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



Scale: 2 inches equal 1 mile

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

Carl Nagel  
(Applicant)

Proposed Priority 9/1/77

Received by VR Date 9-1-77 Time 1:00 PM  
Preliminary check by VR Fee \$ 55.00  
Receipted by B Date 9-2-77 (5271)  
Publication prepared by B Date 9-2-77  
Published in Camden P. News  
Publication dates 9-8-15-22  
Publication approved B Date 9-29-77  
Priority reduced to \_\_\_\_\_ Reason \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Protests filed by: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Copies of protests forwarded by \_\_\_\_\_  
Hearing held by \_\_\_\_\_ Date \_\_\_\_\_  
Recommended for approval denial by RAH:jg

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. 95-7779, and said application is hereby APPROVED.

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

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before November 1, 1982.

c. Other: For licensing purposes a scientific measurement of the diversion rate of the systems as it is normally operated shall be provided by either properly installed an approved type of measuring device or by having a professional engineer certify the rate of diversion to the Department prior to submitting proof of beneficial use of water.

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

Witness my hand this 17 day of November 1977.

[Signature]  
Deputy Director

DEC 21 1987  
Department of Water Resources

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

95-7779  
Permit No.

Staff Analysis Sheet  
for  
Beneficial Use Field Report

A. Prior to Conducting the Exam, the File Contains:

- ☒ Blank Field Report Form
- ☒ Copy of Permit
- ☒ Copies of any Amendments/Orders with conditions of approval
- ☒ Computer Data Proof Report
- ☒ Copy of U.S.G.S. Quad
- ☒ Check for Government Lots. If so, make a copy of Government Plat

Check of P/D index R 9/18/86 (Initial and date)

Overlap? ☐ yes ☒ no If yes: ☐ copy of exam(s) attached?  
Type of Overlap? ☐ Add acres or uses to existing system  
☐ Increase rate of flow or volume  
☐ Other: \_\_\_\_\_

Check of P/U index R 9/18/86 (Initial and date)

Overlap? ☐ yes ☒ no If yes: ☐ copy of water right(s) attached?  
Type of Overlap? ☐ Increase rate of flow or volume  
☐ Add P/D's  
☐ Increase number of acres within tracts  
☐ Other: \_\_\_\_\_

Aerial Photo

Required? ☒ yes ☐ no If yes: ☒ copy attached?

Scheduling Letter sent? \_\_\_\_\_ (Initial and date)

☐ Appointment made and telephone conversation memo attached

B. After Conducting the Exam, the File Contains:

- ☐ Fully completed and signed Field Report Form
- ☐ Photographs of Point of Diversion and Place of Use
- ☐ Corrected Computer Data Proof Report with recommended license information, and date and signature of examiner.

C. Review and Processing:

Exam Completed Jennifer A. Jones (Signature of examiner and date)  
Exam Reviewed by Senior Water Resource Agent R 8/87 (Initial and date)  
Exam Reviewed by Manager of Regional Office PVA 12/16/87 (Initial and date)  
Exam Date Entered in Computer m 12/16/87 (Initial and date)  
Exam sent to State Office m 12/17/87 (Initial and date)  
Copy of Staff Analysis Sheet sent to Manager of Regional Office and Original  
Refiled in White File \_\_\_\_\_ (Initial and date)

7-31-87

7/87

State of Idaho  
DEPARTMENT OF WATER RESOURCES  
SUPPLEMENTAL FIELD REPORT FOR COX/HALL MEASUREMENT

Measured by: Jennifer ArgravesDate 7-6-87Owner: Carl NagelPermit No. 95-2279

## Description of well &amp;/or measuring site

- Include any clarifications of the sketch

- Include legal description if more than one p.d. is described in the Field Report

dia = 5" thickness = 1/8"CIR =  $2\pi(\frac{5}{2}) = 15.7$ 

## MEASURED INSIDE PIPE RADIUS IN INCHES (IR)

CIR = Pipe Circumference in Inches = 15.7T = Pipe Thickness in Inches = 1/8"IR = [ ( 0.1592 X CIR ) - T ] = ..... 2.38

## DIFFERENTIAL PRESSURE READING IN INCHES OF H2O (H)

High Reading = 22.5Low Reading = 10.5High - Low = H = ..... 12

## COX/HALL DESCRIPTION &amp; FACTOR DETERMINATION (H#)

State ID No. \_\_\_\_\_

Size of tip used \_\_\_\_\_

Number of holes in  
meter taped or blocked \_\_\_\_\_

To determine Cox/Hall Factor (H#) use table to the right.  
Using the Differential Pressure Reading (H) find appropriate  
Row and Column to determine (H#).  
(example: H = 12.4 then H# = 17.0)

Determine (H#) and enter here: 16.7

## CALCULATION OF DISCHARGE IN CFS (Q)

$$Q = \frac{(3.1416)(IR)^2(H\#)}{(448.8)}$$

$$Q = \frac{(3.1416)(2.38)^2(16.7)}{(448.8)} = \frac{.66}{.66} \text{ CFS}$$

SKETCH (If not shown on Field Report)

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SEP 25 1989

|    | .0   | .1   | .2   | .3   | .4   | .5   | .6   | .7   | .8   | .9   |
|----|------|------|------|------|------|------|------|------|------|------|
| 0  | 0.0  | 0.0  | 1.3  | 1.4  | 2.2  | 2.3  | 2.9  | 3.3  | 3.7  | 4.0  |
| 1  | 4.3  | 4.5  | 4.8  | 5.0  | 5.2  | 5.4  | 5.6  | 5.8  | 6.0  | 6.2  |
| 2  | 6.3  | 6.5  | 6.7  | 6.9  | 7.0  | 7.2  | 7.3  | 7.5  | 7.6  | 7.7  |
| 3  | 7.9  | 8.0  | 8.2  | 8.3  | 8.5  | 8.6  | 8.7  | 8.8  | 9.0  | 9.1  |
| 4  | 9.3  | 9.4  | 9.5  | 9.6  | 9.7  | 9.8  | 10.0 | 10.1 | 10.2 | 10.3 |
| 5  | 10.4 | 10.5 | 10.6 | 10.7 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 |
| 6  | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 |
| 7  | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 |
| 8  | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 14.0 | 14.0 | 14.1 | 14.2 |      |
| 9  | 14.3 | 14.4 | 14.5 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 15.0 | 15.0 |
| 10 | 15.1 | 15.2 | 15.3 | 15.4 | 15.5 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 |
| 11 | 15.9 | 16.0 | 16.1 | 16.2 | 16.3 | 16.3 | 16.4 | 16.5 | 16.5 | 16.6 |
| 12 | 16.7 | 16.7 | 16.8 | 16.9 | 17.0 | 17.0 | 17.1 | 17.2 | 17.3 | 17.3 |
| 13 | 17.4 | 17.5 | 17.5 | 17.6 | 17.7 | 17.8 | 17.8 | 17.9 | 18.0 | 18.1 |
| 14 | 18.1 | 18.2 | 18.3 | 18.3 | 18.4 | 18.5 | 18.5 | 18.6 | 18.7 | 18.7 |
| 15 | 18.8 | 18.9 | 18.9 | 19.0 | 19.1 | 19.1 | 19.2 | 19.3 | 19.3 | 19.4 |
| 16 | 19.5 | 19.5 | 19.6 | 19.6 | 19.7 | 19.7 | 19.8 | 19.9 | 19.9 | 20.0 |
| 17 | 20.1 | 20.1 | 20.2 | 20.2 | 20.3 | 20.4 | 20.4 | 20.5 | 20.5 | 20.6 |
| 18 | 20.7 | 20.7 | 20.8 | 20.9 | 20.9 | 21.0 | 21.0 | 21.1 | 21.2 | 21.2 |
| 19 | 21.3 | 21.3 | 21.4 | 21.4 | 21.5 | 21.6 | 21.6 | 21.7 | 21.7 | 21.8 |
| 20 | 21.9 | 21.9 | 22.0 | 22.0 | 22.1 | 22.2 | 22.2 | 22.3 | 22.3 | 22.4 |
| 21 | 22.4 | 22.5 | 22.5 | 22.6 | 22.6 | 22.7 | 22.7 | 22.8 | 22.9 | 22.9 |
| 22 | 23.0 | 23.0 | 23.1 | 23.1 | 23.2 | 23.2 | 23.3 | 23.4 | 23.4 | 23.5 |
| 23 | 23.5 | 23.6 | 23.6 | 23.7 | 23.7 | 23.8 | 23.8 | 23.9 | 23.9 | 24.0 |
| 24 | 24.0 | 24.1 | 24.2 | 24.2 | 24.3 | 24.3 | 24.4 | 24.4 | 24.5 | 24.5 |
| 25 | 24.6 | 24.6 | 24.7 | 24.7 | 24.8 | 24.8 | 24.9 | 24.9 | 25.0 | 25.0 |
| 26 | 25.1 | 25.1 | 25.2 | 25.2 | 25.3 | 25.3 | 25.4 | 25.4 | 25.5 | 25.5 |
| 27 | 25.6 | 25.6 | 25.7 | 25.7 | 25.8 | 25.8 | 25.9 | 25.9 | 26.0 | 26.0 |
| 28 | 26.1 | 26.1 | 26.2 | 26.2 | 26.3 | 26.3 | 26.4 | 26.4 | 26.5 | 26.5 |
| 29 | 26.6 | 26.6 | 26.7 | 26.7 | 26.8 | 26.8 | 26.9 | 26.9 | 27.0 | 27.0 |
| 30 | 27.0 | 27.1 | 27.1 | 27.2 | 27.2 | 27.3 | 27.3 | 27.4 | 27.4 | 27.5 |
| 31 | 27.5 | 27.5 | 27.6 | 27.6 | 27.7 | 27.7 | 27.8 | 27.8 | 27.9 | 27.9 |
| 32 | 28.0 | 28.0 | 28.0 | 28.1 | 28.1 | 28.2 | 28.2 | 28.3 | 28.3 | 28.4 |
| 33 | 28.4 | 28.5 | 28.5 | 28.5 | 28.6 | 28.6 | 28.7 | 28.7 | 28.8 | 28.8 |
| 34 | 28.9 | 28.9 | 29.0 | 29.0 | 29.0 | 29.1 | 29.1 | 29.1 | 29.2 | 29.2 |
| 35 | 29.3 | 29.3 | 29.3 | 29.4 | 29.4 | 29.5 | 29.5 | 29.5 | 29.6 | 29.6 |
| 36 | 29.7 | 29.7 | 29.8 | 29.8 | 29.9 | 29.9 | 30.0 | 30.0 | 30.0 | 30.1 |
| 37 | 30.1 | 30.2 | 30.2 | 30.3 | 30.3 | 30.4 | 30.4 | 30.5 | 30.5 | 30.5 |
| 38 | 30.6 | 30.6 | 30.7 | 30.7 | 30.8 | 30.8 | 30.8 | 30.9 | 30.9 | 31.0 |
| 39 | 31.0 | 31.0 | 31.1 | 31.1 | 31.2 | 31.2 | 31.2 | 31.3 | 31.3 | 31.4 |
| 40 | 31.4 | 31.5 | 31.5 | 31.5 | 31.6 | 31.6 | 31.7 | 31.7 | 31.7 | 31.8 |
| 41 | 31.8 | 31.9 | 31.9 | 31.9 | 32.0 | 32.0 | 32.1 | 32.1 | 32.2 | 32.2 |
| 42 | 32.2 | 32.3 | 32.3 | 32.3 | 32.4 | 32.4 | 32.5 | 32.5 | 32.5 | 32.6 |
| 43 | 32.6 | 32.6 | 32.7 | 32.7 | 32.7 | 32.8 | 32.8 | 32.9 | 32.9 | 33.0 |
| 44 | 33.0 | 33.0 | 33.1 | 33.1 | 33.2 | 33.2 | 33.2 | 33.3 | 33.3 | 33.4 |
| 45 | 33.4 | 33.5 | 33.5 | 33.5 | 33.6 | 33.6 | 33.7 | 33.7 | 33.7 | 33.8 |
| 46 | 33.8 | 33.9 | 33.9 | 33.9 | 34.0 | 34.0 | 34.0 | 34.1 | 34.1 | 34.1 |
| 47 | 34.2 | 34.2 | 34.2 | 34.3 | 34.3 | 34.4 | 34.4 | 34.4 | 34.5 | 34.5 |
| 48 | 34.6 | 34.6 | 34.6 | 34.7 | 34.7 | 34.8 | 34.8 | 34.8 | 34.9 | 34.9 |



# STATE OF IDAHO

## F WATER RESOURCES

PERMIT # 95-7779

INITIALS



Three P/U

→ #1 home

→ #3 home

→ #2 home



**MICROFILMED**

**SEP 25 1989**



STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
NORTHERN REGION

REMARKS / PHOTOS

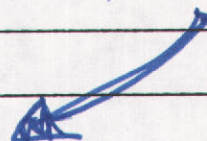
PERMIT # 95-7779

DATE

INITIALS

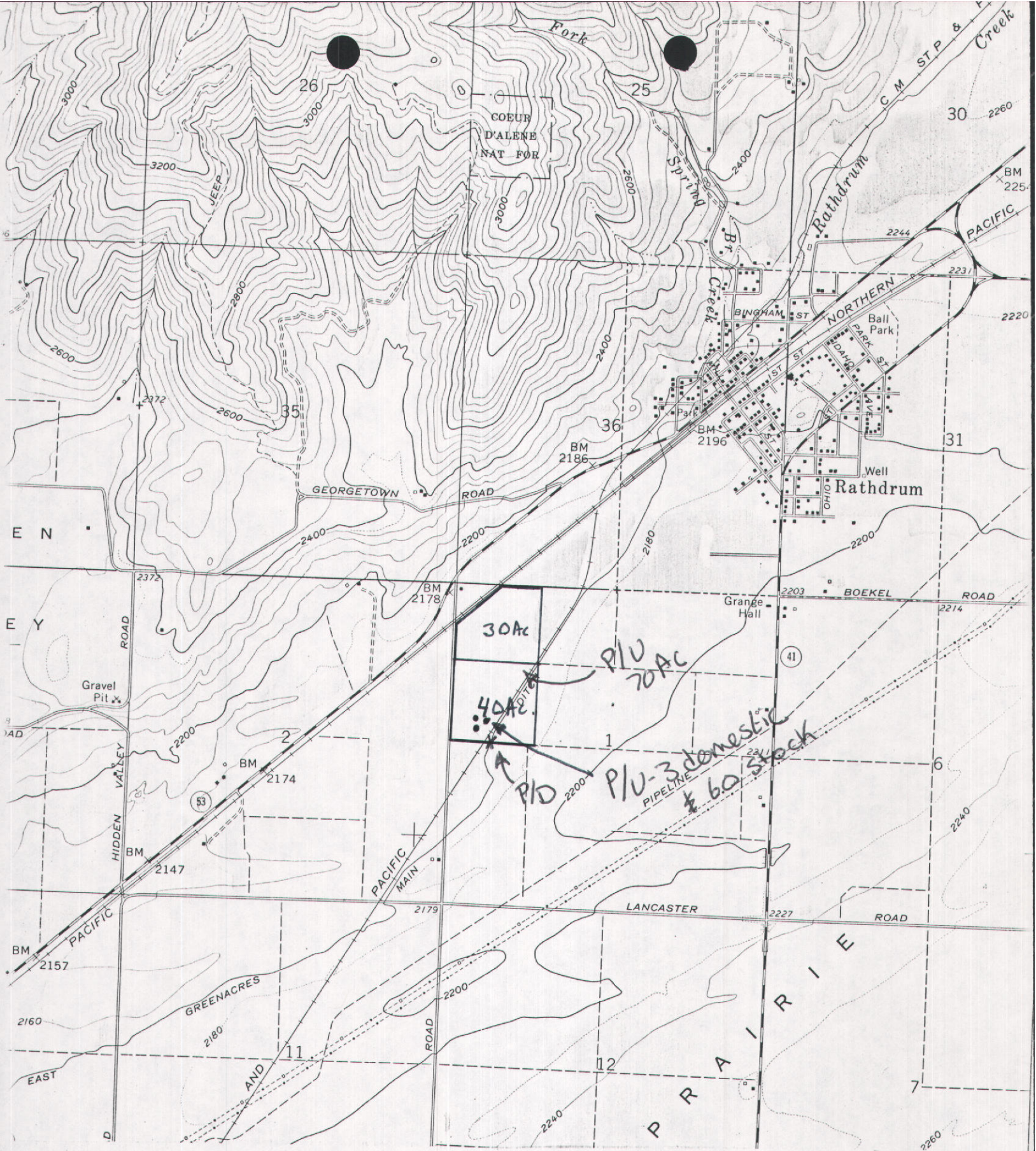


P/D  
w/ Access port



MICROFILMED

SEP 25 1989



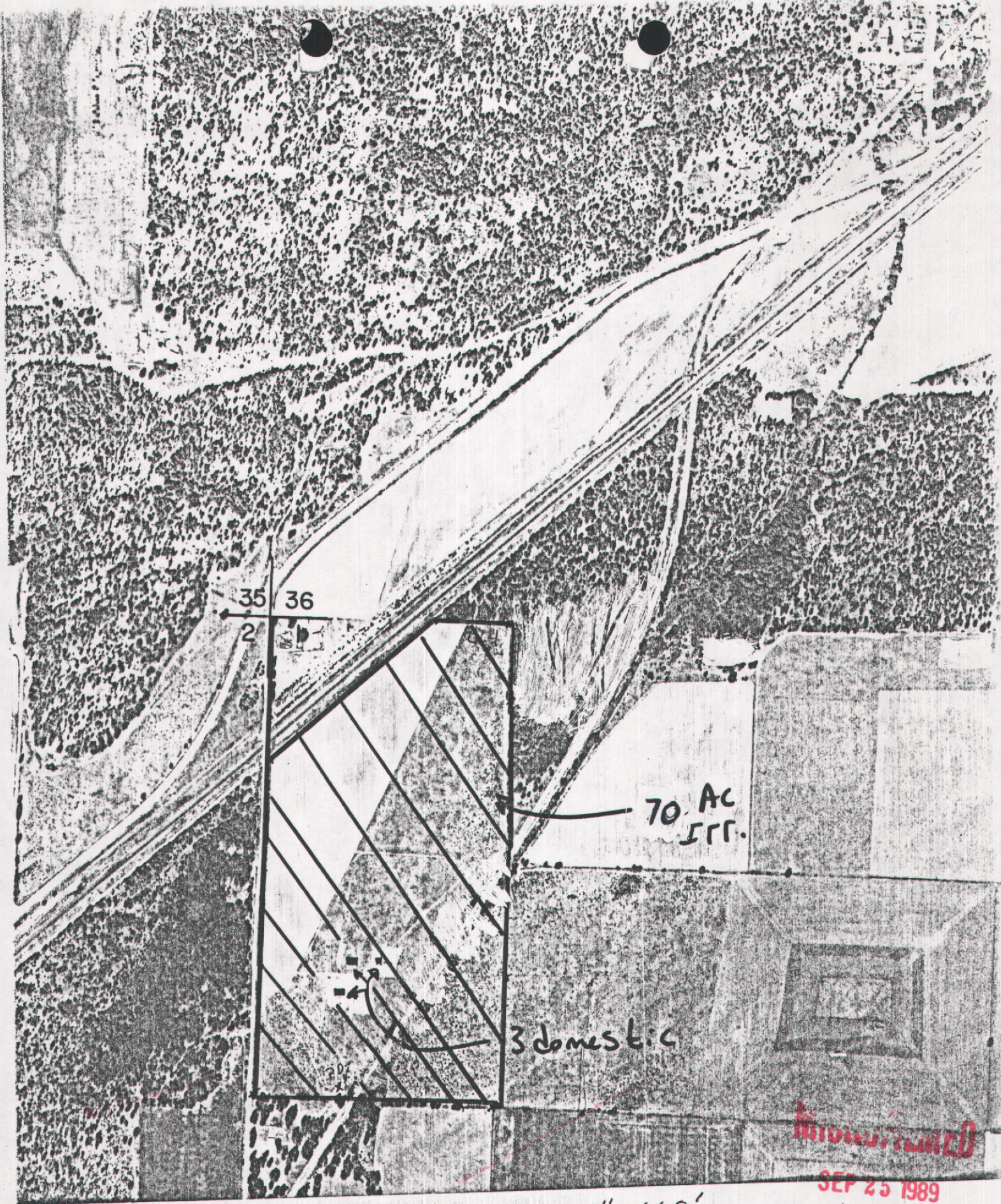
**MICROFILMED**

SEP 23 1989

T51N R5W Sec 1

Date 7-6-87

# 95-7779



TWP. 51 N., RGE. 5W SEC. 1 MAP # ~~6775-56~~ PERMIT # 95-7779  
DATE OF EXAM 7-6-87

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

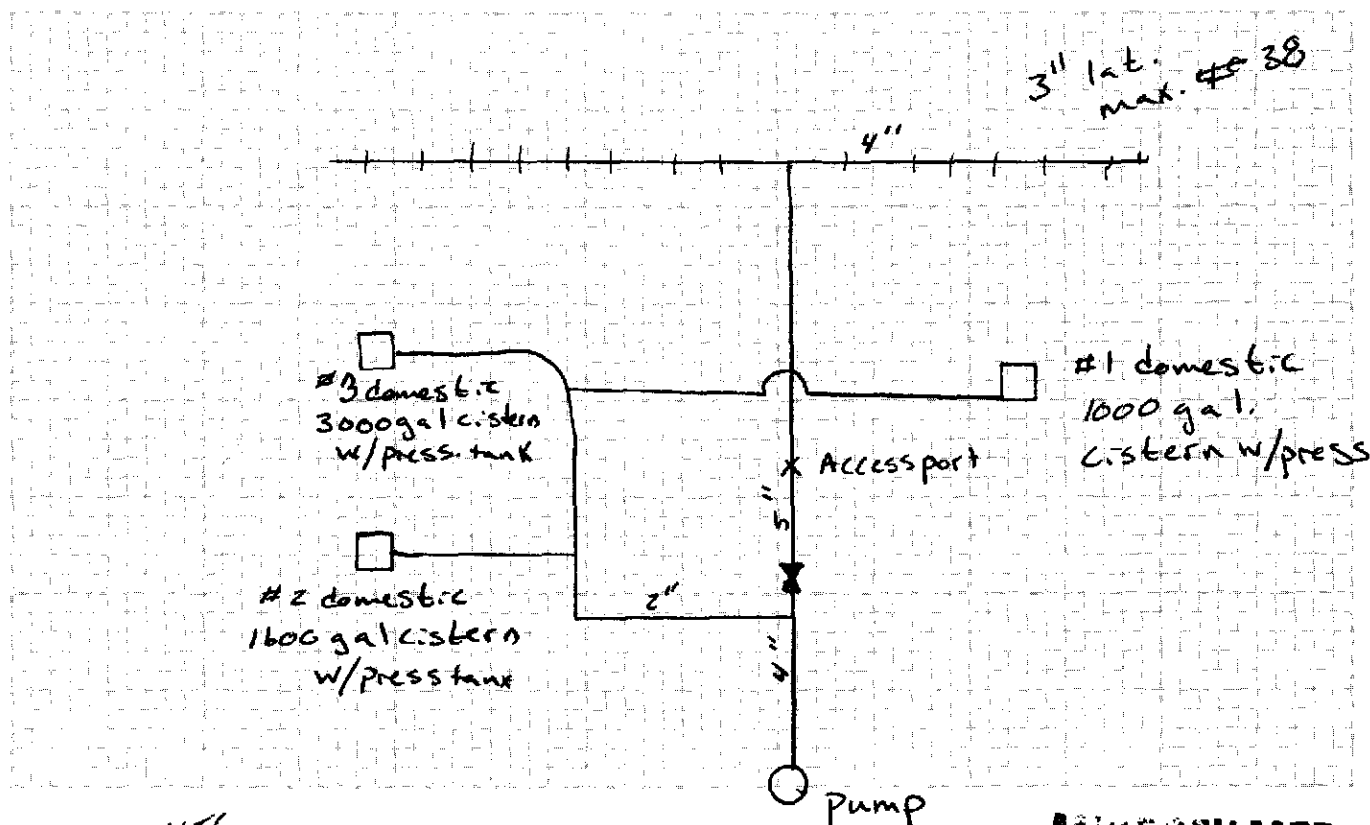
Permit No. 95-7779  
1. Owner: Carl Nagel Phone No. 687-1210  
Current Address: Rt. 3 Box 206A, Rathdrum, Idaho 83858  
2. Accompanied by: SAME EXAM. DATE: 7-6-87  
Address: SAME Phone No. \_\_\_\_\_  
Relationship to Permit Holder: \_\_\_\_\_  
3. Source: Ground water tributary to \_\_\_\_\_

**B. OVERLAP REVIEW**

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

**C. SYSTEM DESCRIPTION**

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



Scale: 1" = NTS

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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).

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**System Description (continued)**

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

From pump 4" outlet to 5" main line to irr.  
2" line brake off from 4" line from pump 40  
3 domestics each + 1/2 Ac. lawn & garden each. Also  
≈ 60 head.

≈ 45 spr. hd., use to run ≈ 60 sp @ 30 psi;  
press. @ pump ≈ 22 psi

☐ See Remarks on page 4 for continuation

4.

| Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------------------|------------|----|------------------|-----------|-----------------------------------|
|                                       |            | 40 |                  |           | 4"                                |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |

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

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

| Ident. No. | Gov't. Lot | 1/4 | 1/4 | 1/4 | Sec. | Twp. | Rge. | County | Method of Determination/Remarks |
|------------|------------|-----|-----|-----|------|------|------|--------|---------------------------------|
|            |            |     |     |     |      |      |      |        |                                 |
|            |            |     |     |     |      |      |      |        |                                 |
|            |            |     |     |     |      |      |      |        |                                 |
|            |            |     |     |     |      |      |      |        |                                 |

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

Indicate Method of Determination

| Twp.  | Rge. | Sec. | NE 1/4 |        |        |        | NW 1/4 |        |        |        | SW 1/4 |        |        |        | SE 1/4 |        |        |        | Totals |
|-------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       |      |      | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 |        |
| 1/2   | 5N   | 5W   |        |        | 1      |        |        |        | 30     | 40     |        |        |        |        |        |        |        |        | 70     |
|       | 5N   | 5W   |        |        | 1      |        |        |        |        | PS     |        |        |        |        |        |        |        |        |        |
| 1/2   | 5N   | 5W   |        |        | 1      |        |        |        | 30     | 39     |        |        |        |        |        |        |        |        | 69     |
|       |      |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|       |      |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|       |      |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|       |      |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Total |      |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 70 69  |

INDEXED

Do not use this space

SEP 23 1989

Do not use this space

UNRECORDED

# D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| CoX                   |      |      |           |            | 5"   |             |
|                       |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. Measurements:

.66 cfs

$Q = 25 \text{ cfs}$

cat

Cal. on cox measurement sheet.

FOR ~~X~~ SEE ATTACHED - JK

# E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

$$Q = \frac{8.8(75)(40)}{2.3(22) + 197} = 1.07 \text{ cfs}$$

$Q_{irr} = .66 \text{ cfs}$

$Q_{3Dom} = .08$

$Q_{stock} = .03 \text{ cfs}$

2. Alternate Method for Checking Purposes:

$Q_{Total} = .67 \text{ via permit - fee}$

# 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:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 241.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 239.6 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 239.6 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$V_{Domestic} = 1.2(3) = 3.6 \text{ AF}$$

+ 1/2 Ac. lawn/garden each  
 $.6(3) = 1.8$

$$V_{stock} = 1.4 \text{ AF}$$

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# H. REMARKS AND OVERLAP REVIEW ANALYSIS

NONE

# I. RECOMMENDATIONS

## 1. Recommended Amounts

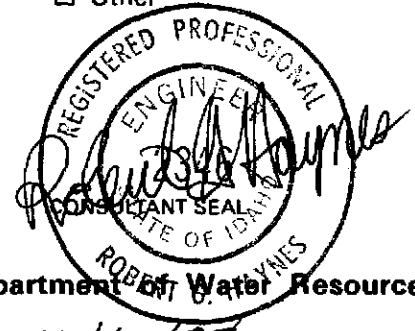
| Beneficial Use | Period of Use |       | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) 1.8 AF |
|----------------|---------------|-------|------------------------------|---------------------------------|
|                | From          | To    |                              |                                 |
| Domestic       | 1-1           | 12-31 | .08 cfs                      | 3.6 AF                          |
| Irrigation     | 5-1           | 10-30 | .66 cfs                      | 239.6 AF                        |
| Stock          | 1-1           | 12-31 | .03 cfs                      | 1.4 AF OK                       |
| Totals:        |               |       | .67 cfs                      | 244.6 AF                        |

## 2. Recommended Amendments

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

# J. AUTHENTICATION

Field Examiner's Name Jennifer Argraves  
 Signature Jennifer Argraves  
 Certification Date \_\_\_\_\_  
 Field Report Preparation Date 7-31-87



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

Ryanne McCortney

12/13/88

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SEP 25 1989

★

95-7779

$$\left. \begin{array}{l} \text{C.6} \\ \text{G.1} \end{array} \right\} \left\{ \begin{array}{l} \text{ROADWAY ON SECTION LINE 60' ROW} \\ \therefore \frac{(\frac{60}{2})(1320)}{43560} \approx 1 \text{ ACRE} \quad \text{SWNW} = 39 \text{ AC} \end{array} \right.$$

E.2. PRESSURE READING AT WELL HEAD WAS MADE USING MR NAGEL PRESSURE GAUGE. ACCORDING MR. NAGEL NO PRESSURE READING ON SPRINKLER HEADS WAS MADE AT THE TIME OF THE EXAM. DURING A PREVIOUS ATTEMPT AT EXAMINATION OF THIS SYSTEM I FOUND THE FOLLOWING 1050 LF 5" MAIN, 1320 LF 4" MAIN W/ 3" LATERALS AND 60 RB 30 1/64 NO2 @ 35 PSI  $\therefore \frac{496 \text{ gpm/SP (60 SP)}}{449.8} = .66 \text{ cfs}$  WHICH MEANS PUMP EFF IS DOWN BELOW 75%

G.2 } (IRR OF LAWN & GARDEN CALCULATED IN  
1.1 } 39 ACRES WITHIN SWNW

Prepared by J. King

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SEP 25 1989

4/86

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
EXAMINATION FEE INFORMATION

For Office Use Only  
Fee Received 100.00  
Date 6/3/86  
Receipt # 32117  
Receipt by R  
Sent to S.O. 6/4/86

RECEIVED  
JUN 6 1986

1. Permit No. 95-7779

ONE OF THE FOLLOWING BOXES SHOULD BE MARKED TO DESIGNATE YOUR CHOICE:

☒ I choose to have the department make the field examination of this permit; attached is the examination fee. (If this box is marked, complete items 1 thru 8.)

2. Permit Holder: Carl Nagel

3. Post Office Address: RT. 3 - Box 206A -

Bathory, Idaho 83858 Telephone No. 687-1210

4. Source of Water: Weir

5. Extent of Use:

Domestic 3 (No. of households) Stockwater 60 (No. and type of stock)

Irrigation 80 (acres) Other/Remark Horses & Cows

6. Total rate &/or volume for which proof is submitted 2.67 cfs \_\_\_\_\_ acre-feet

7. Show the date water was first diverted and beneficially used under this permit:

May 1978

8. Person to contact to accompany the department representative during the field examination:

Carl Nagel (Name)

RT 3 - Box 206A Green Ferry Road Bathory 687-1210  
(Address) (Telephone Number)

☐ I choose to have the field examination conducted by a certified water right examiner. Attached is a statement from the certified examiner I have selected verifying that he has been retained to conduct the examination. (If this box is marked, complete items 1 thru 7.)

6-2-86  
Date

Carl Nagel SEP 25 1989  
Signature of Permit Holder (and title, if appropriate)

MICROFILMED

3/79

IDENT. NO. 95-7779

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

WATER RIGHT  
DATA ENTRY LOG

[illegible]

DEPARTMENT OF WATER RESOURCES  
- STAFF ANALYSIS -

Item Initial Date

Application No. 95-7779 Nogel

☒ Source  
☒ Point of Diversion  
☒ County  
☒ Quantity of Water and Period of Use  
☒ Description of Diverting Works  
☒ Time required for B/U of water  
☒ Place of Use or Acres Irrigated  
☒ Map  
☒ Signature  
☒ Fee

(1) JK 9-1-77

In form to receipt

(2) \_\_\_\_\_

Send Copies to:

\_\_\_\_\_ Idaho State Health Department  
\_\_\_\_\_ Idaho Fish and Game Department  
\_\_\_\_\_ Bureau of Land Management

(3) \_\_\_\_\_

\_\_\_\_\_ Request Special Use Permit from U.S.F.S.  
\_\_\_\_\_ Request Easement from B.L.M.  
\_\_\_\_\_ Request Information from Applicant  
\_\_\_\_\_ Request Dam Safety Information

(4) JK 9-1-77

In form for advertising

(5) \_\_\_\_\_

Platted on Map No. \_\_\_\_\_

(6) \_\_\_\_\_

Located within Water District No. \_\_\_\_\_

(7) \_\_\_\_\_

Critical groundwater area: yes \_\_\_\_\_ no ☒

(8) \_\_\_\_\_

Groundwater levels:

\_\_\_\_\_ Declining, ☒ Stable, \_\_\_\_\_ Increasing

(comment) \_\_\_\_\_

(9) \_\_\_\_\_

Other rights on the same place of use

(10) \_\_\_\_\_

Comments: none kw

(11) \_\_\_\_\_

Affidavit of Publication received(date) 9-29-77

(12) \_\_\_\_\_

Final date for protests 9-26-77  
Protests received: yes \_\_\_\_\_ no ☒

(13) \_\_\_\_\_

All requested information received from agencies or applicant: yes ☒ no \_\_\_\_\_

(14) \_\_\_\_\_

Action recommended:

☒ Approve \_\_\_\_\_ Deny

9-1-77 Proposed Priority

Reason for Reduction \_\_\_\_\_

☒ Measuring device required

See attached sheet for other conditions of approval

No special conditions for approval

(15) District Northern

By Bob Layman Date 9-30-77

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Carl Hagel

Hayden Lake, Id

has on September 1, 1977 submitted Application No. 95-7779

for a permit to appropriate 3.72 cubic feet per second ~~acres feet per annum~~

of water from a groundwater source

by means of well pump & pipeline

within the SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> Sec 1, T51N, R5W, B.M., Kootenai County

to be used from Jan 1 to Dec 31 for stock water (0.02 cfs) and domestic

~~for~~ purposes for 6 households (0.10 cfs) and from May 1 to Oct 30 for the

irrigation of 185 acres (3.6 cfs)

within the SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> Sec 1, T51N, R5W; T51N, R5W; SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> & SW<sup>1</sup>/<sub>4</sub> Sec 36, T56N, R5W, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Resources, 4055 Government Way, Coeur d'Alene, Idaho 83814, on or before September 26, 1977.

C. STEPHEN ALLRED  
Director

Published in the Coeur d'Alene Press, Coeur d'Alene, Id

on September 8 and September 15, 1977