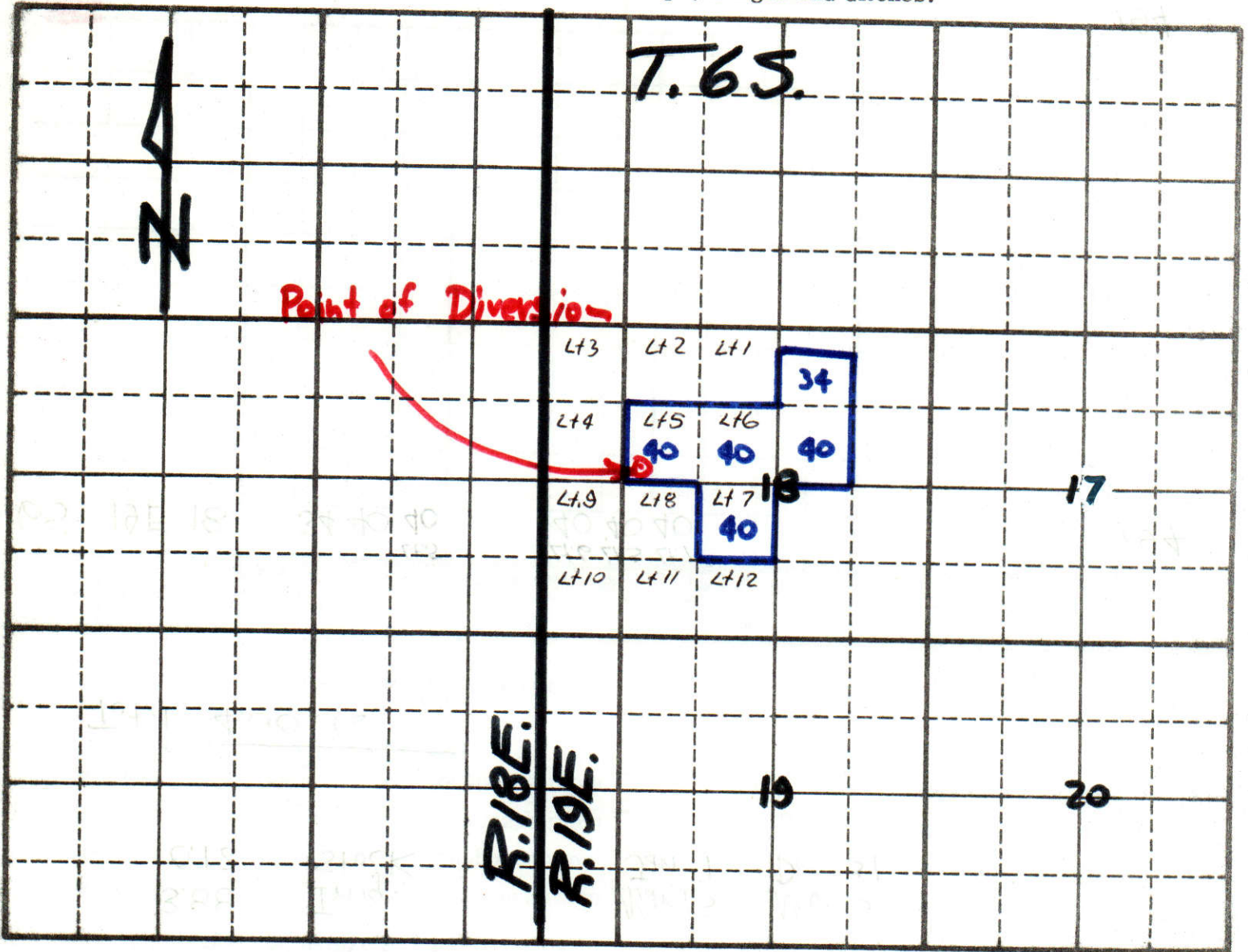


Complete the following map by showing land and point of diversion as proposed by this amendment. Show 40-acre subdivisions, townships, ranges and ditches.



Scale: 2 inches equal 1 mile

That no one will be injured by such change, and that such change will be made at permit holders own risk.

Signed at Twin Falls, this 3 day of March, 19 77.

Jerry R. Nance
(signature)

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

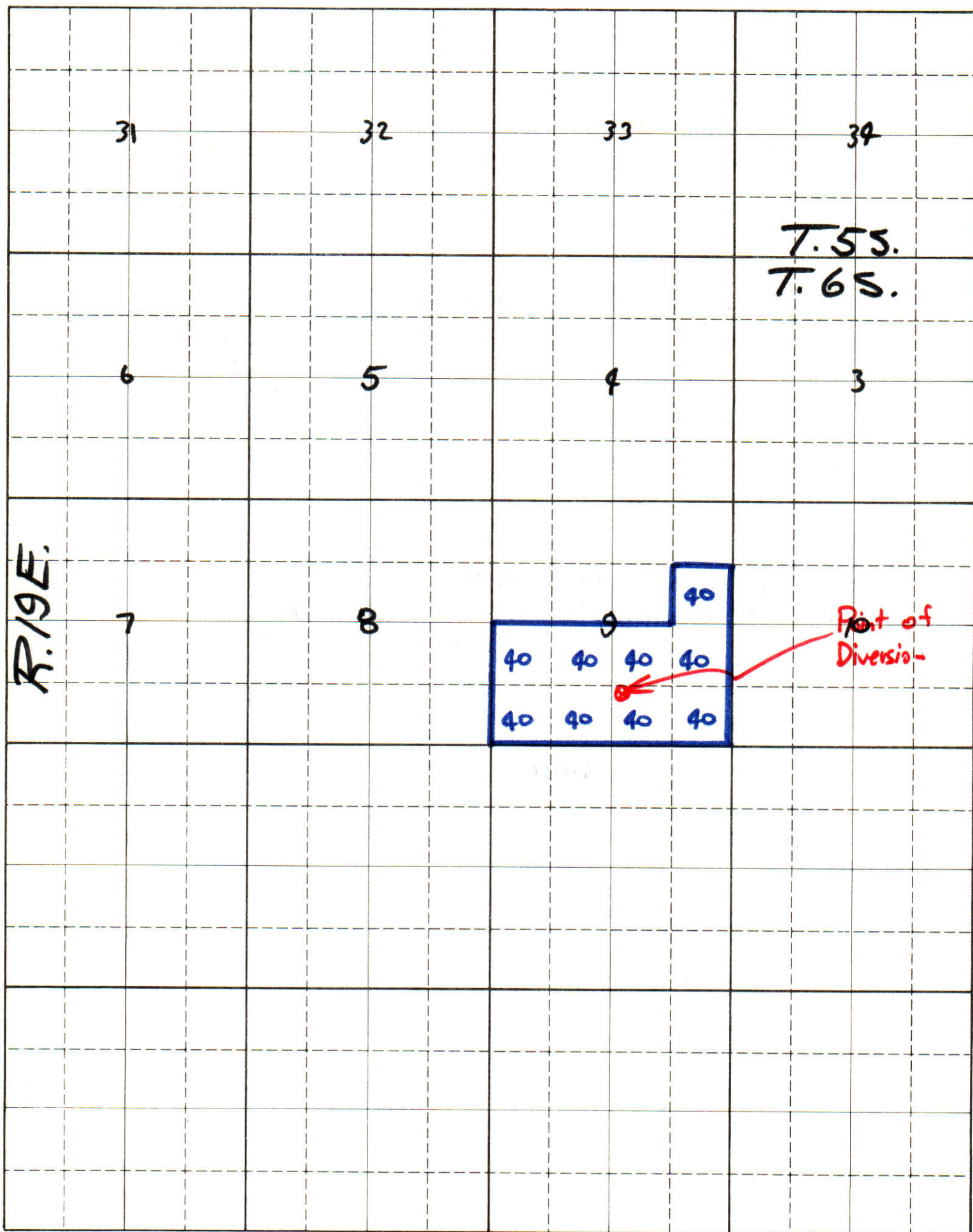
I, A. KENNETH DUNN, ~~Director~~ of the Department of Water Resources hereby APPROVE the above application for amendment on Permit No. 37-7504.

Witness my hand this 16 day of March, 19 77.

Bobby D. Fleener
~~Director~~

for A. KENNETH DUNN
Administrator, Operations Division

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.

Jerry R Nance
(Applicant)

MICROFILMED

T.6S., R.19E., B.M.

18 17 K 21.3

C/18/

A 8.3
B 9.5

C 11.5

E 12.4

D 10.6
C 4.1
B 4.7
A 8.9

LOT 5
40 ac

LOT 6
40 ac

40 ac

C 5

34 ac

D 8.9

C 10

C 9
A 11.4

B 8.3
C 5.4

F 8.8

E 15.8

D 25.4

G 6.1

H 5.0

I 4.4

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L 4.1

M 5.2

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</

AFFIDAVIT OF PUBLICATION

State of Idaho, }
County of Lincoln } SS.

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

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 19 day of Aug., 1976, and the date of the last publication was on the 26 day of Aug., 1976.

Laray Trammel
Subscribed and sworn to before me this 26 day of August, 1976.
(SEAL)

Mary Ann Hagan
NOTARY PUBLIC

LINCOLN COUNTY JOURNAL Shoshone, Idaho COST OF PUBLICATION

Number of Lines in Notice
Number of Insertions
Lines tabular at 315c
Lines straight at 21c
Subsequent lines at 15c
TOTAL COST

COPY OF NOTICE

(Paste Here)

Application for Water Permit
TITLE OF NOTICE
Jerry Nance 37-7504
PLAINTIFF ATTORNEY

LEGAL

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Jerry R. Nance, Route #1, Dietrich, Idaho 83354 has on 7-22-76 submitted Application No. 37-7504 for a permit to appropriate 7.32 cubic feet per second of water from groundwater by means of well, pump, motor and sprinkler system within the SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 9, Twp. 6S, Rge. 19E, B.M. Lincoln County to be used from March 15 to Nov. 15 (irrigation), Jan. 1 to Dec. 31 (stockwater) for irrigation and stockwater within the SE $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 9, Twp. 6S, Rge. 19E, B.M. (360 acres).

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, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before August 23, 1976.

/S/ R. KEITH HIGGINSON
Director

Pub: 8-19, 26

(Idaho Code, Rev. Statutes 1971)		
7 pt. per line, straight		21c
7 pt. per line, tabular		315c
7 pt. per line, successive insertions		15c

OK 9-15-76 AS

RECEIVED
N 1511

SEP 15 1976

Department of Water Resources
Southern District Office

AFFIDAVIT of PUBLICATION

RECEIVED

State of Idaho, }
County of Lincoln } SS.

AUG 16 1976

Department of Water Resources
Southern District Office

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

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication

of said advertisement was on the 5 day of Aug.

19 76, and the date of the last publication was on the 12

day of Aug, 19 76

Subscribed and sworn to before me this 12

day of August, 19 76.
(SEAL)

Maylene Hagen
NOTARY PUBLIC

LINCOLN COUNTY JOURNAL

Shoshone, Idaho

COST OF PUBLICATION

Number of Lines in Notice _____

Number of Insertions _____

Lines tabular at 315c

31 Lines straight at 21c

31 Subsequent lines at 15c

TOTAL COST 11.16

COPY OF NOTICE

(Paste Here)

Water Permit

TITLE OF NOTICE

37-7504

Jerry N Nance

PLAINTIFF ATTORNEY

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/S/ R. KEITH HIGGINSON
Director

Pub: 8-5, 12

PUBLICATION RATES

(Idaho Code, Rev. Statutes 1971)

7 pt. per line, straight 21c

7 pt. per line, tabular 315c

7 pt. per line, successive insertions 15c

No

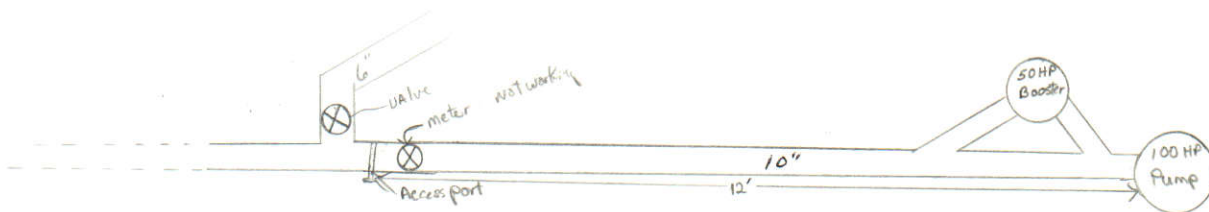
1487

SW $\frac{1}{4}$, SE $\frac{1}{4}$

886-7601

[illegible]

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: Lot #5 (SWNW) Sec. 18, Twp. 6S. Rge. 19E.

Place(s) of Use

[illegible]

$X = \text{Stock use}$

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

Examiner's Signature Lenny A. Blau

Checked by J E Stanton

Approved by

Date 7-27-82

Date 8-24-82

Date 1/3/83

Zd

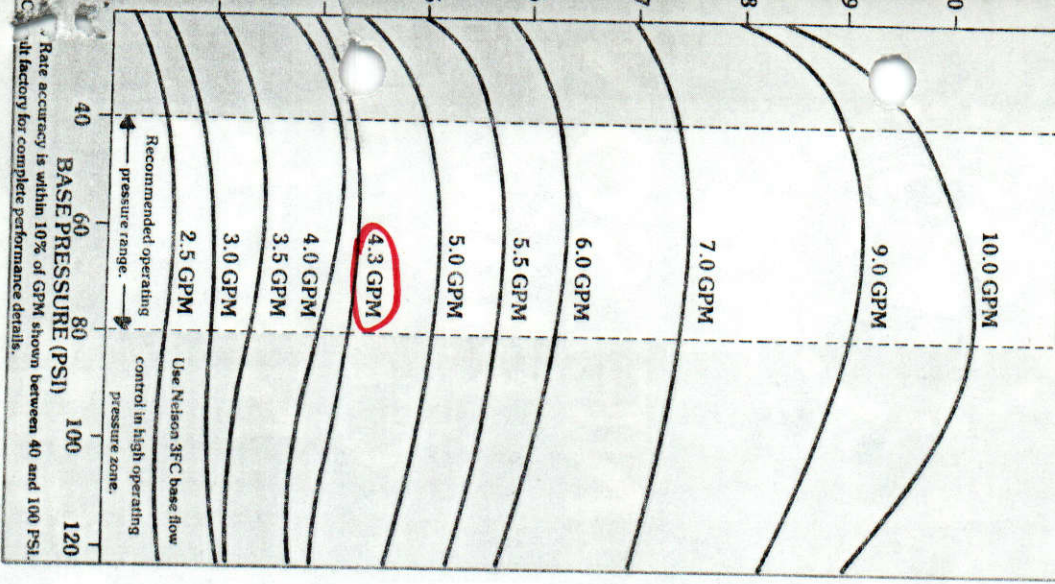


Nelson Flow Control Nozzles — FCN Series

any factors can influence the way you apply water through your sprinkler systems. Differences in field elevation. Excessive pipe friction losses. Even fluctuations in your pump pressure. With the Nelson Flow Control Nozzle (FCN), you can now minimize the effect those factors have on your water application pattern, giving you to achieve a more uniform application of water on all 3 of your field.

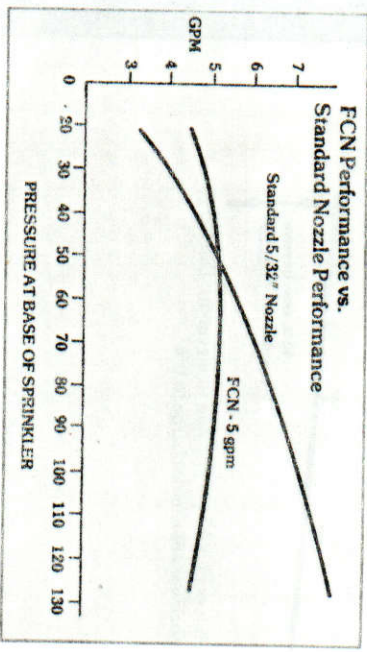
The Nelson FCN is designed to replace the standard nozzles in your center pivot sprinklers. Used with hand line, wheel line or solid set sprink-

FCN PERFORMANCE — GPM vs PSI

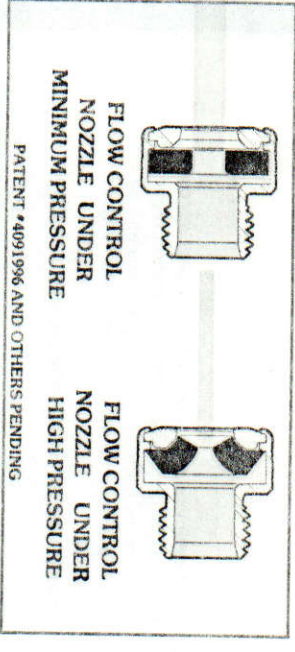


tems, the FCN can help equalize the flow rate from each sprinkler line. Or if you irrigate with a center pivot system, the FCN maintain a constant flow rate.

What does a more uniform water application pattern mean to you as an irrigator? It can mean an increase in your crop yield. A reduction in your pumping costs. And, just as importantly, a savings in water, fertilizer, and costly farm chemicals.



The chart above illustrates how the FCN serves to maintain a constant flow rate over a wide range of pressure. Notice that the GPM of a standard 5/32" nozzle will vary as much as 40% when the pressure changes from 40 psi to 80 psi, while the GPM of the FCN holds nearly constant during an identical pressure change.



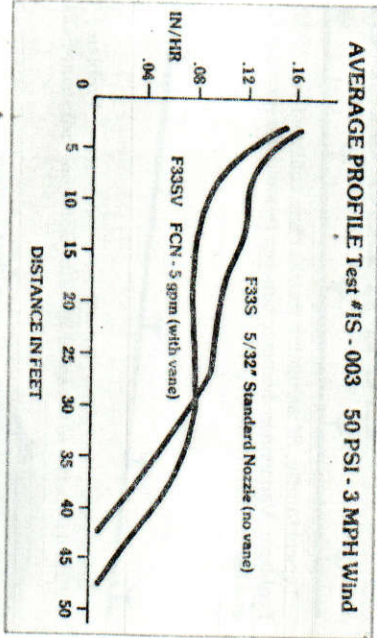
PRINCIPLE OF OPERATION

The FCN is a brass nozzle cartridge which contains a flexible orifice that contracts as the pressure increases, allowing the GPM discharge to be held constant. Since the stream is discharged across the orifice directly into the atmosphere, the pressure drop normally associated with flow control devices does not occur. Additionally, the threshold pressure — the pressure at which the FCN achieves rated flow — is much lower than that of base flow control devices.

WATER DISTRIBUTION

The average water distribution profile of a sprinkler equipped with a FCN is not significantly different from that of a sprinkler equipped with a standard nozzle. The variances shown in the comparative profiles above right are largely a result of differences in arm stroke rate, nozzle exit conditions, and stream-straightener vanes. The total amount of water collected is essentially the same, indicating that under low

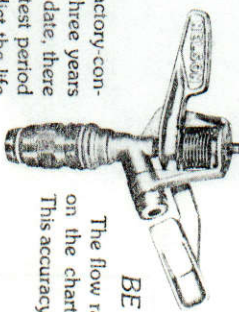
wind conditions there is very little difference in irrigation efficiency or in the amount of water lost as mist. High wind test results are not yet available.



COMMON QUESTIONS ASKED ABOUT THE FCN

WHAT IS THE FUNCTIONAL LIFE EXPECTANCY OF THE FCN?

Flow rate tests on FCN field installations and factory-controlled samples have been performed over the past three years for indications of drift from the original GPM rating. To date, there has been no indication of drift. However, since the test period has been limited, it is not possible to accurately predict the life expectancy of the FCN. Like any rubber product, the FCN's original flexing and flow control ability will begin to diminish at some point in time.



WHAT LEVEL OF ACCURACY CAN BE EXPECTED FROM THE FCN?

The flow rate accuracy is within $\pm 10\%$ of the GPM shown on the chart entitled "FCN Performance — GPM vs. PSI". This accuracy is maintained between 40 psi and 100 psi.

CAN THE FCN BE USED WITH OTHER SPRINKLER BRANDS?

The FCN was developed specifically to fit Nelson's 3/4" imp sprinklers. All testing and performance data shown is with Nelson sprinklers. From a practical standpoint, field experience indicates that the FCN will readily fit most competitive sprinklers. The may, however, be some thread sealing, arm clearance and rotation problems associated with other brands. Again, all data shown and statements made in this brochure are based on the use of FCN in Nelson Impact sprinklers.

WHAT ABOUT WEAR LIFE IN ABRASIVE WATERS?

Many units have been subjected to thousands of hours of operation under abrasive water conditions, and showed no indication of wear after visual inspection. The wear life is expected to exceed that normally associated with a standard brass nozzle. However, no conclusive test data is yet available to support this claim.

DOES THE FCN THROW AS FAR AS A STANDARD NOZZLE?

The stream integrity (and therefore the throw radius) of the FCN is comparable to that of a standard nozzle. It does, however, show more evidence of turbulence in the high pressure zones and high GPM sizes. Field experience indicates that a stream straightener will improve stream integrity, increase radius of throw, and help to fight wind. The manufacturer recommends using vanes whenever possible.

Sprinkler Performance

Base Psi	FCN Size (nominal gpm)										Radius (feet) with vane
	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0	10.0	
40	45	45	46	48	51	53	54	55	56	57	58
50	47	47	47	49	52	54	55	56	57	58	59
60	47	48	48	50	52	55	56	57	58	59	60
70				48	50	52	56	57	58	59	
80				49	51	53	56	59	60		

Suggested Sprinkler Model Usage: F32SV, F32ASV, F33SV, F33ASV, F44SV, F44SV

Stated performance is with F32SV and F33SV sprinklers (w/ no-wind test conditions). Radius is reduced 4% to 12% without vane (highest reduction is in high gpm range). Derate performance 2% to 4% when using F44V series sprinklers. For performance details, consult factory.

INTERMOUNTAIN
IRRIGATION SUPPLY, INC.

McPherson Seward

Telephone (208) 436-9611
Route 2
Reed 436-9611
200 West 50 South



Wheels are fitted for use in sprinkler systems subjected to excessive friction losses, or uneven terrain as shown above.

Warranty

Nelson Corporation Flow Control Nozzles (FCN) are warranted for a year from date of original sale to be free of defective manufacturing when used within the working specifications of the manufacturer. The manufacturer assumes no responsibility for installation, unauthorized repair. The manufacturer's liability under this limited warranty is restricted to replacement of defective FCN and the manufacturer will not be liable for any crop or consequential damages in any delays or breach of warranty. The manufacturer assumes no representation regarding droplet conditions, uniformity, rate, flow rate or life expectancy. Test results used to determine data have been obtained under ideal conditions and may be adversely affected by wind, poor hydraulic conditions, etc. This warranty is expressly in lieu of all other warranties, including the warranties of merchantability and fitness for particular purposes and of all other obligations or liabilities of the manufacturer.

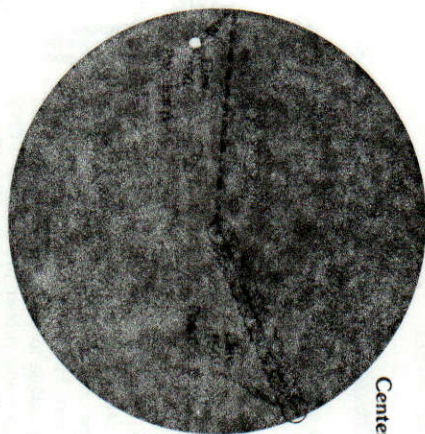
Nelson Irrigation Corporation
Suite 4, Box 169, Airport Road
Bella Walla, Washington 99362
Phone (509) 525-7660

EXAMPLES OF FCN APPLICATION

Typical 1/4 mile, 3" aluminum sprinkler line equipped with 5/32" standard nozzles. Pressure loss due to pipe friction, 18 psi. **Problem:** Variation in discharge between first and last sprinkler 17%. **Solution:** Substitute FCN-5 gpm. Variation between first and last sprinkler reduced to 0%.



Same example as above, but with elevation increase. **Problem:** 18 psi friction loss plus 17 psi loss due to elevation. Discharge variation from first to last sprinkler 32%. **Solution:** Substitute FCN-5 gpm. Reduce variation in discharge to 0%.



Center Pivot System

Typical pivot system with elevation change of 50' between high and low point operating at design pressure of 50 psi. **Problem:** Discharge variation between position A & B, 25%. **Solution:** Equip pivot sprinklers with FCN, reduce variation to 0%.

The above examples are simple, single line systems with problems common to most systems, i.e., excessive friction loss and/or elevation problems. Most systems are more complicated and involve multiple lines and pumps where discharge variation problems due to elevation and friction loss are compounded by lines being turned on and off, by fluctuating pump pressures and by hydraulic imbalance problems. By utilizing the FCN, the pressure variations unique to the system do not cause variations in water application from one part of the field to the next, conserving water, fertilizer and chemicals. **Note:** On multiple line systems, the full value of the FCN may not be realized unless all the sprinklers served by one pump are equipped with the FCN.

CONVERTING EXISTING SYSTEMS TO THE FCN - WHAT TO EXPECT

If the FCN size is correctly selected so that the pump discharge after conversion equals the discharge before conversion, the system pressure will remain nearly the same. However, if the FCN size selected results in a lower total pump discharge than before conversion, the system pressure could increase depending on the pump curve. Conversely, the pressure could drop if too large an FCN size is selected, resulting in a higher discharge than existed before conversion. In some complicated piping networks it may be very difficult to determine the average sprinkler flow rate. In this case, more than one size FCN may have to be determined to correct the correct FCN size.

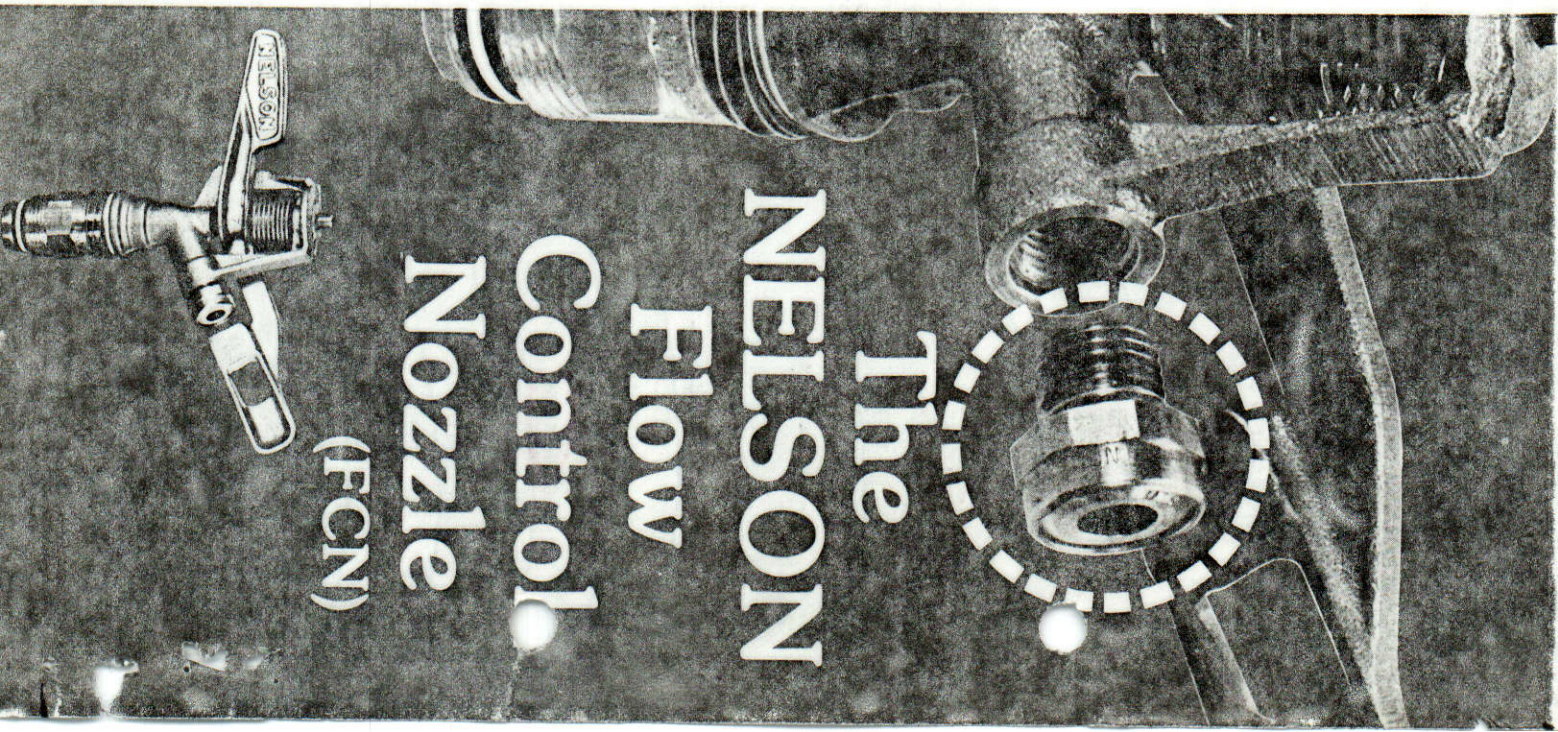
FCN - THE ENERGY SAVER

Under most circumstances, the FCN can reduce the energy requirements of an irrigation system. For example, assume that a typical hand-line with a normal 20% variation in discharge from one end to the other will apply 1/4" of water per hour, and that a 2" application is desired during an eight-hour set. During that eight hours, however, the area receiving 20% less water has only received 1.6". For adequate ir-

rigation in all parts of the field, therefore, the system must be operated another 1.6 hours. This is an obvious waste of pumping time, resulting in higher energy costs and wasted water in the area that has been overwatered. Also, consider the waste of fertilizer or other chemicals, particularly if they are being applied through the system. The use of the FCN will reduce this variation to 0%, thereby reducing energy requirements.

SIGNIFICANCE OF LOW PRESSURE CONTROL

When standard nozzles are used, the deviation in discharge increases dramatically for a given elevation change when operating pressures decline. For example, when a system with an operating pressure of 80 psi is used in a field with a 30-foot elevation change, the gpm deviation from the high to low elevation is 8%. But when operating pressures drop to 40 psi on that same 30-foot elevation change, the gpm deviation increases to 18%. Now apply the same conditions to an FCN-equipped system. As shown in the "GPM vs. Pressure" graph, the FCN holds the deviation in discharge to a minimum.



State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 37-7504 Priority July 22, 1976 Amount 3.30 cfs

THIS IS TO CERTIFY, that Jerry R. Nance
of Dietrich, Idaho, has complied with the terms and conditions of Permit
No. 37-7504 issued pursuant to Application for Permit dated July 22, 1976,
and has submitted proof to the Department of Water Resources on August 27, 1981,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 3.30 cfs of water from a groundwater source,
tributary to _____, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
<u>Irrigation</u>	from <u>March 15</u> to <u>November 15</u> at <u>3.18</u> cfs and	<u>712.0</u> acre feet	
<u>Stockwater</u>	from <u>January 1</u> to <u>December 1</u> at <u>1.2</u> cfs and	<u>6.7</u> acre feet	
	from _____ to _____ at _____ cfs and		
	(both dates inclusive)		

Subject, however, to the condition that no more than 3.30 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
718.7 acre feet per year, said waters to be diverted within the Government Lot 5 (SW 1/4 NW 1/4),
Section 18, Twp. 6S, Rge. 19E in the County of Lincoln

Description and location of place of use:

Twp.	Range	Sec.	NE 1/4				NW 1/4				SW 1/4				Totals
			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	
6S	19E	18				GL 1	GL 2	GL 5	GL 6	GL 7					178
6S	19E	18				X									

Total number of acres irrigated 178

X = Stockwater use.

This right when combined with all other rights shall provide no more than 0.02
cfs per acre nor more than 4.0 afa per acre for the lands above.

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho
Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

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

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 25th day of
April, 19 83.

Acting for the Director

Noam Cygus

STATE OF IDAHO

Licensing

RECEIVED

APPLICATION FOR AMENDMENT OF A PERMIT 1983

Department of Water Resources

To change the point of diversion and/or the place of use.

Comes now Jerry R. Nance Phone 544-2480

of (address) Route #1, Dietrich, ID 83324 , and represents to the

Director of the Idaho Department of Water Resources:

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 37-7504 , and requests that the permit and permit map be changed as follows:

Gov. Lot 5

1. Point of diversion: (SW $\frac{1}{4}$ NW $\frac{1}{4}$) $\frac{1}{4}$, Section 18 , Township 6S , Range 19E , B.M.,
County of Lincoln . Other points of diversion:

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount 3.18 for irrigation purposes from 3/15 to 11/15 (both dates inclusive)
(cfs or acre feet per annum)

Amount 0.12 for stockwater purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

3. Place of use or land to be irrigated:

TWP	RGE	SEC	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTALS
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
6S	19E	18		11	39		GL1 22	GL2 12	GL5 24	GL6 37	GL7 33								178

178

Total number of acres to be irrigated =

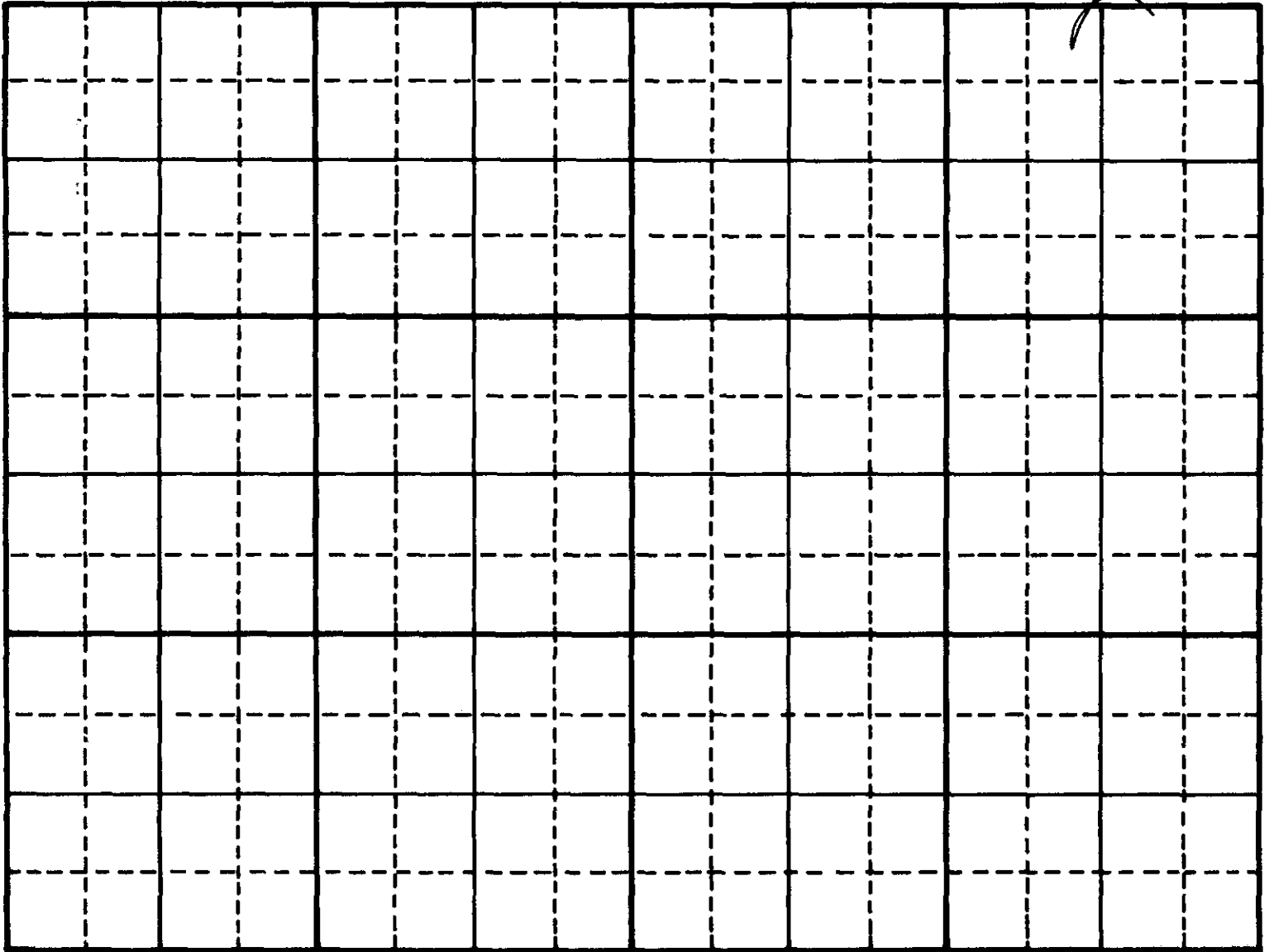
4. a. Who owns the property at the point of diversion? Jerry R Nance
b. Who owns the land to be irrigated or the place of use? Jerry R Nance
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:

MICROFILMED

Complete the following map by showing land and point of diversion as proposed by this amendment.

Show 40-acre subdivisions, townships, ranges and ditches.

Not Necessary



Scale: 2 inches equal 1 mile.

That no one will be injured by such change, and that such change will be made at permit holder's own risk.

Signed at *Detrich, Idaho*, this 18 day of *January*, 19 83.

Jerry R. Vance
(Signature)

FOR DEPARTMENT USE ONLY

Preliminary check by *RC* Fee = \$20.00

Received by *sg* Date *1-21-83 #25837*

Publication prepared by *N/A* Date _____

Published in _____

Publication dates _____

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, A. KENNETH DUNN, of the Department of Water Resources hereby
APPROVE the above Application for Amendment of Permit No. 37-7504.

Witness my hand this 25th day of April, 19 83

Acting for Director

Ronnie C. Young

RECEIVED

RC Over

RECEIVED

APPLICATION FOR AMENDMENT

MAR 3 1977

Permit No. 37-7504

Comes now Jerry R. Nance of (address) _____

Route #2, Dietrich, Idaho, 83324, and represents to the Director of the Idaho Department of Water Resources:

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 37-7504, and requests that the permit and permit map be changed as follows: 1-4 #5

Lot #5

1. Point of diversion: _____ $\frac{1}{4}$ _____ $\frac{1}{4}$, Sec. 18 Twp. 65.
Rge. 19E, B.M., County of Lincoln. Other points of diversion:

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount 3.88 for Irrig. purposes from Mar 15 to Nov 15 (both dates inclusive)

Amount 0.12 for Stock purposes from Jan. 1 to Dec. 31 (both dates inclusive)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)

~~(cfs or acre-foot per annum)~~

Total 4.00 cfs

3. Place of use or land to be irrigated:

[illegible]

Total number of acres to be irrigated

194

REPRODUCED

A hand-drawn map on a grid. A vertical line is labeled "R. 18 E." and "R. 19 E." and a horizontal line is labeled "T. 6 S.". A north arrow is in the top left. A curved arrow points from the "Point of Diversion" to Lt 5. Lt 1 through Lt 12 are labeled in a 3x4 grid. Lt 5, 6, 7, and 8 are boxed. Numbers 34, 40, 18, 17, 19, and 20 are also present.

Lt 3	Lt 2	Lt 1	34
Lt 4	Lt 5 40	Lt 6 40	40
Lt 9	Lt 8	Lt 7 40	18
Lt 10	Lt 11	Lt 12	

That no one will be injured by such change, and that such change will be made at permit holders own risk.

Jerry R. Nance
(signature)

ok

Bobby D. Fleener
Director

for A. KENNETH DUNN
Administrator, Operations Division

RECEIVED

JUL 22 1976

Department of Water Resources
Southern District Office

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

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

APPROVED

Identification No. _____

Application No. 37-7504

1. Name of applicant Jerry R. Nance Phone: 544-2480
post office address Route #1, Dietrich, Idaho 83324

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

3. a. Location of point of diversion is SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 9 Township 6S
Range 19E B.M. Lincoln 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 7.2cfs for irrigation purpose from March 15 to Nov. 15 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 0.12 for stockwater purpose from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

a. 7.32 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, motor and sprinkler
system

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 18 inches; proposed depth of well is 300 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 \$ 80,000.

8. Description of proposed uses:

a. If water is **not** for irrigation:

(1) Give the place of use of water: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____
Range _____ 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 500 range cattle

(4) Name of municipality to be served _____, or number of families to be
supplied with domestic water _____.

(5) If water is to be used for other purposes describe: _____

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	
6S	19E	9				40					40	40	40	40	40	40	40	40	360
6S	19E	9				X					X	X	X	X	X	X	X	X	

Total number of acres to be irrigated 360

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

120 shares of Big Wood Canal Company water

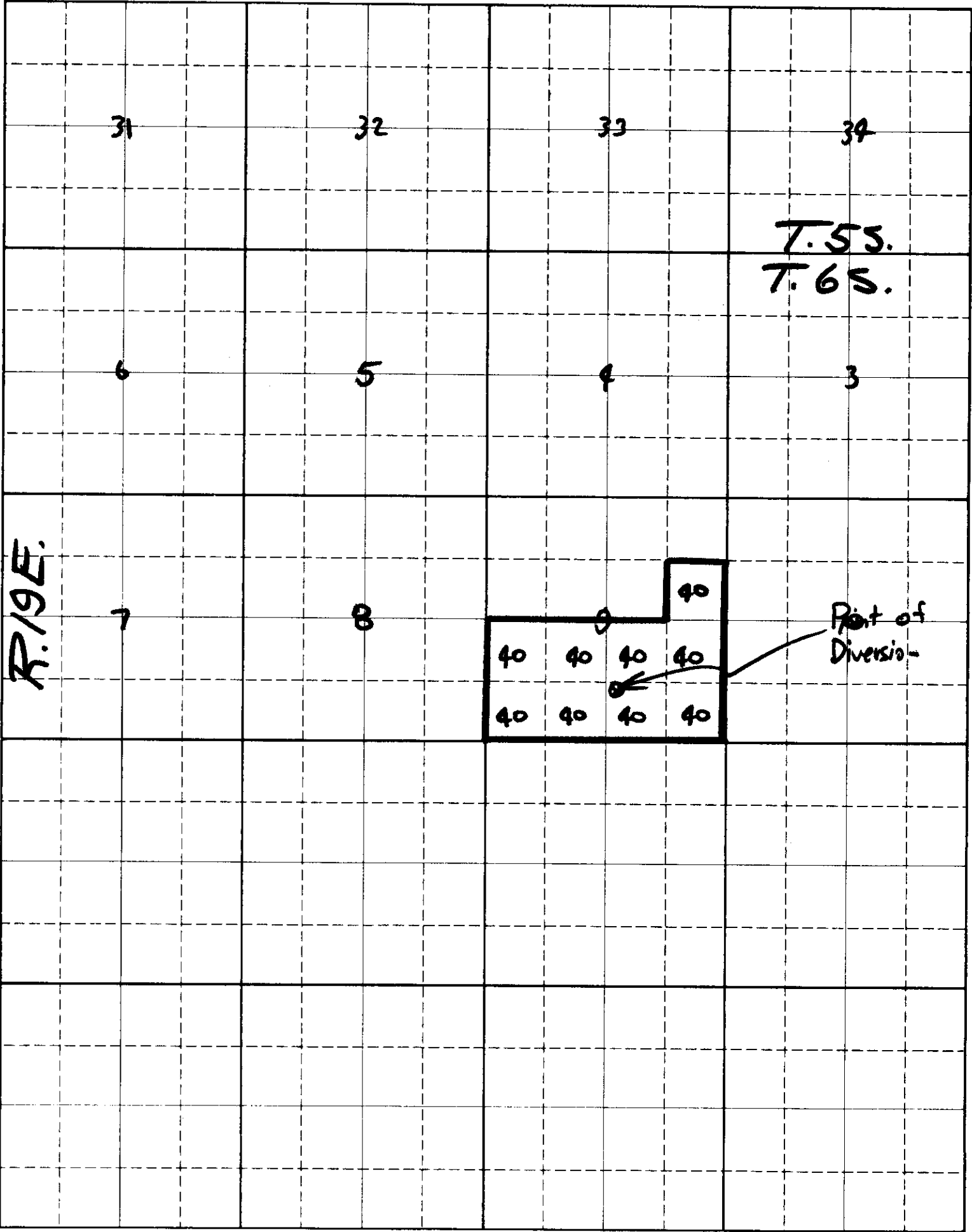
9. a. Who owns the property at the point of diversion Applicant

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

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

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.

Jerry R. Vance
(Applicant)

Proposed Priority 7-22-76

Received by ADM Date 7-22-76 Time 11:45

Preliminary check by TGB Fee \$ 95.00

Receipted by AJ Date 7-22-76 # 2153

Publication prepared by pj Date 7-23-76

Published in Lincoln County Journal

Publication dates July 29 and August 5

Publication approved _____ Date _____

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by mls

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

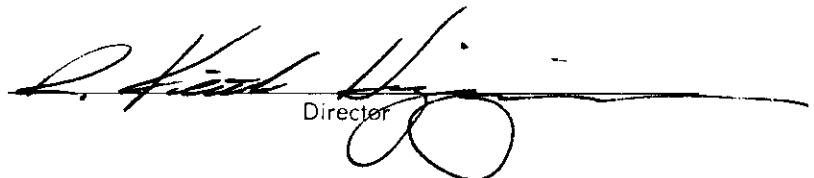
This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 37-7504, and said application is hereby APPROVED.

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

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before September 1, 1981.
- c. Other: A measuring device of a type approved by the Director shall be permanently installed and maintained as part of the diverting works.

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

Witness my hand this 24 day of September, 1976.


Director

MICROFILMED

T.6S., R.19E., B.M.

213

C181

B 9.5
A 8.3

C5

34 ac

C 8.9

E 12.4
D 10.6

LOT 5
40 ac

40 ac

LOT 6
40 ac

C9
A 11.4

B 8.3
C 5.4

LOT 7
40 ac

LOT 8
40 ac

E 15.8
D 8.8

D 25.4

E 6.1

LOT 9
5.4

24 19

18 17
19 20

AFFIDAVIT PUBLICATION

State of Idaho, }
County of Lincoln } SS.

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

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 19 day of Aug. 1976, and the date of the last publication was on the 26 day of Aug. 1976.

Taray Brammel
Subscribed and sworn to before me this 26 day of August, 1976.
(SEAL)

Mary Ann Hager
NOTARY PUBLIC

LINCOLN COUNTY JOURNAL Shoshone, Idaho COST OF PUBLICATION

Number of Lines in Notice
Number of Insertions
Lines tabular at 315c
Lines straight at 21c
Subsequent lines at 15c
TOTAL COST

COPY OF NOTICE

(Paste Here)

Application for Water
TITLE OF NOTICE Permit
Terry Nance 57-2504
PLAINTIFF ATTORNEY



NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Terry R. Nance, Route 31, Lincoln County, Idaho, has on the 19th day of August 1976, applied to the State Engineer for a permit to divert 7.15 cubic feet per second of water from ground water resources of the Shoshone River, Lincoln County, Idaho, for the purpose of irrigating 100 acres of land in Lincoln County, Idaho, and for the purpose of domestic use. The application was filed with the State Engineer on the 19th day of August 1976, and the State Engineer has received the application and is now processing it. The State Engineer has received the application and is now processing it. The State Engineer has received the application and is now processing it.

J. A. HARRIS, REGISTRAR

Page 1 of 1

(Idaho Code, Rev. Statutes 1971)		
7 pt. per line, straight		21c
7 pt. per line, tabular		315c
7 pt. per line, successive insertions		15c

OK 9-15-76 PR

RECEIVED
1511

SEP 15 1976

Department of Water Resources
Southern District Office

AFFIDAVIT PUBLICATION

State of Idaho, }
County of Lincoln } SS.

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

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 19 day of Aug., 1976, and the date of the last publication was on the 26 day of Aug., 1976.

Laray Trammel

Subscribed and sworn to before me this 26 day of August, 1976.
(SEAL)

Mary Ann Haeger
NOTARY PUBLIC

LINCOLN COUNTY JOURNAL Shoshone, Idaho COST OF PUBLICATION

Number of Lines in Notice
Number of Insertions
Lines tabular at 315c
Lines straight at 21c
Subsequent lines at 15c
TOTAL COST

RECEIVED
SEP 15 1976
1511

PLAINTIFF

BILL TO

Dept of Water Resources
1041 Blue Lakes Blvd.
No.
Lewin Falls, Idaho
83301

PUBLICATION RATES	
(Idaho Code, Rev. Statutes 1971)	
7 pt. per line, straight	21c
7 pt. per line, tabular	315c
7 pt. per line, successive insertions	15c

OK 9-15-76 PS

RECEIVED
N 1511

SEP 15 1976

Department of Water Resources
Southern District Office

886-7601

AFFIDAVIT OF PUBLICATION RECEIVED

State of Idaho,
County of Lincoln } SS.

AUG 16 1976

Department of Water Resources
Southern District Office

Laray Trammel, being first duly sworn,
deposes and says that he is the printer (publisher) of the Lincoln
County Journal, a newspaper published every week in Shoshone, Lin-
coln County, State of Idaho; that said newspaper has been continuous-
ly and uninterruptedly published for a period of seventy-eight consecu-
tive weeks prior to the first publication of the annexed notice, and is
a newspaper qualified to publish legal notices as provided by act of
the 1919 session of the legislature of the State of Idaho, known as
House Bill 145; that the annexed advertisement was published once

each week for 2 consecutive issues in said newspaper
proper and not in a supplement; that the date of the first publication
of said advertisement was on the 5 day of Aug.
19 76, and the date of the last publication was on the 12
day of Aug, 19 76

Subscribed and sworn to before me this 12

day of August, 19 76.
(SEAL)

Mayhew Hagen
NOTARY PUBLIC

LINCOLN COUNTY JOURNAL

Shoshone, Idaho

COST OF PUBLICATION

Number of Lines in Notice
Number of Insertions
Lines tabular at 315c
31 Lines straight at 21c 6.51
31 Subsequent lines at 15c 4.65
TOTAL COST 11.16

PLAINTIFF

BILL TO

*Dept. of Water Resources
1041 Blue Lakes
Blond. N.
Twin Falls, Ida.*

PUBLICATION RATES

(Idaho Code, Rev. Statutes 1971)

7 pt. per line, straight	21c
7 pt. per line, tabular	315c
7 pt. per line, successive insertions	15c

N^o 1487

SW 1/4, SE 1/4

666-71001

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF CHANGING THE MEASURING
DEVICE REQUIREMENT FOR PERMIT NO. 37-7504

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,

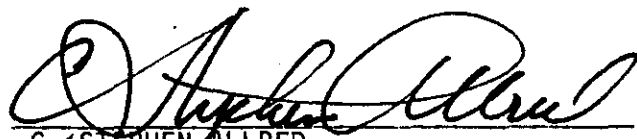
WHEREAS, the measuring device condition effective July 1, 1978, requires less capital expenditure by the permit holder; and,

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 18th day of August, 1978.

RECEIVED
AUG 21 1978
DEPT. OF WATER RESOURCES
BOISE, IDAHO


C. STEPHEN ALLRED
Director

May 2, 1983

RE: Permit No. 37-7504

Jerry R. Nance
Route #2
Dietrich, ID 83324

Dear Mr. Nance:

Enclosed herewith is a copy of your Water Right License issued on the above referenced permit along with a copy of your approved application for amendment. Also enclosed is Departmental Receipt No. 25857 in the amount of \$20.00.

Should you have any questions regarding these documents, please feel free to contact our office.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:kw
Enclosures



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

January 14, 1983

RE: Permit No. 37-7504

Jerry R. Nance
Route #1 Z
Dietrich, ID 83324

Dear Mr. Nance:

A representative of this Department made an examination of the works covered by your Permit No. 37-7504 and has found the following:

Amount of water that can be recognized as beneficially used under
Idaho law: 3.30 cfs Source: groundwater

The maximum quantity diverted shall not exceed 718.7 acre feet
per year.

Point of diversion: Gov. Lot 5(SW $\frac{1}{4}$ NW $\frac{1}{4}$), Sec. 18, Twp. 6S, Rge. 19E,
Lincoln County

Beneficial use: Stockwater and irrigation of 178 acres within the
W $\frac{1}{2}$ NE $\frac{1}{4}$, Gov. Lot 1(NE $\frac{1}{4}$ NW $\frac{1}{4}$), Gov. Lot 2(NW $\frac{1}{4}$ SW $\frac{1}{4}$), Gov. Lot 5(SW $\frac{1}{4}$ NW $\frac{1}{4}$),
Gov. Lot 6(SE $\frac{1}{4}$ NW $\frac{1}{4}$), Gov. Lot 7(NE $\frac{1}{4}$ SW $\frac{1}{4}$), Sec. 18, Twp. 6S, Rge. 19E

Priority date established: July 22, 1976

In order for the Department to issue the above license, it will be necessary for you to amend the permit to correspond with the findings of the field examiner. We are enclosing a partially completed amendment form for your use in this matter.

Please sign the amendment application and return it to this office along with a \$20.00 filing fee within 30 days in order that we might issue your license as set forth above. If you do not concur with these findings or have any questions, please contact us within the 30-day period.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:kw
Enclosure

RECEIVED
JAN 17 1983
WATER RESOURCES



STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

September 19, 1981

Jerry R. Vance
Rt. 1
Dietrich, Idaho 83284

Re: Permit No. 37-7504

Dear Mr. Vance:

We acknowledge receipt of the affidavit submitted as proof of beneficial use for the above referenced permit.

Before a license can be issued, a field examination must be made by a representative of this Department. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

Field examinations must be done while the system is in operation. For this reason we concentrate on irrigation permits during the summer months and do examinations on permits for other uses during the non-irrigating months.

If you have any questions regarding the field examination, please contact our office.

Sincerely,

Gary L. Funderburn
Senior Water Resource Agent

GLE:marva

SEP 23 1981

State of Idaho
DEPARTMENT OF WATER RESOURCES
FIELD REPORT

RECEIVED

DEC 8 1982

Department of Water Resources

37-7504

Permit No.

CONTACT WITH PERMIT HOLDER

	DATE	INITIALS	REMARKS
☒ Appointment letter mailed:	9-18-81		
☒ Telephone call made: (List Telephone No. used)	7-22-82	TB	544-2480
☒ Appointment scheduled for: (Date, time, location)	7-27-82 Hwy-24	TB	1:00 9 mi E of Shoshone on

EXAMINATION

Date 7-27-82 Accompanied by Wayne Kornder (Hired man) Total Q measured 3.18 cfs
If source is surface water, estimate total flow of source 2.53 cfs
Methods of measurement Annubar / Eagle Eye Meets Permit requirements? yes

Measurement calculations: $Q = \frac{3.85 \times (10.02)^2 \times \sqrt{8.6}}{448.8} = 2.53 \text{ cfs} \times 1.023 = 2.59 \text{ cfs}$
10" pipe Annubar # 91421 Eagle Eye # 91464 Reading 8.6
332 Nelson flow control N02265 @ 4.3 gpm (See attachment) 3.18 cfs capacity - See Remarks
Volume: 178 177.6 Acres @ 4 AF/Annubar = 712 AF/Annubar (stock) 500 hdx 12 gal/hd/day x 365 days = 6.7 AF
325,900 gal/AF per stock table
 $V = 3.18 \times 1.9835 \times 245 = 1545.3$

WELL/DIVERSION* NO.	HP	MOTOR MAKE	MOTOR SERIAL NO.	PUMP MAKE	PUMP SERIAL NO.	MEASURING DEVICE TYPE	CONDITION OF MEAS. DEV.	REMARKS
Well pump	100	U.S.	R-9983-00-037	Aurora Vertiline	37771581	Annubar / Eagle Eye	good	poor location
Booster Pump	50	G. E.	5K326JL2058	Single unit Centrifugal		"	"	

System Description Well with pump and booster to 10" and 6" mainlines to 12 handlines. 11 of which were operating at the time of the exam.

*Code with map on reverse side. Disregard code if only one.

RECOMMENDED AMOUNTS

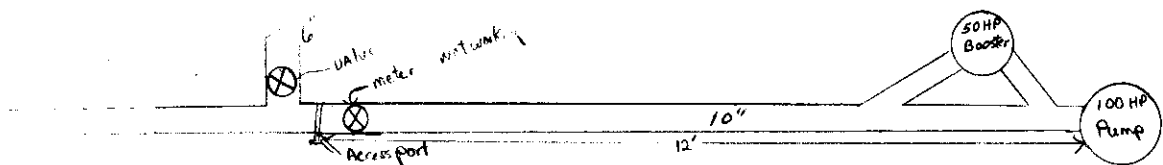
USE	Irrigation requirement =	Q (cfs)	V (afa)	FROM	TO
Irrigation	4.0	3.18 cfs ✓	712 ✓	Mar 15	Nov 15
Stockwater		.12 cfs ✓	6.7 ✓		

Remarks * Access port was installed immediately downstream of a malfunctioning flow meter and immediately upstream of a T. I Am therefore recommending the discharge of the flow control N02265.
Total ✓ 3.3 cfs 718.7 AF
To max. Normal stock use is 300 stock cows with calves a total of approx 500 hd.

No overlapping rights
Recommend condition R16 because of canal shares
dispute 7-83

[illegible]

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: Lot #5 (SWNW) Sec. 18, Twp. 6S. Rge. 19E

Place(s) of Use

[illegible]

$X = \text{Stock use}$

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

Examinee Signature _____

Checke

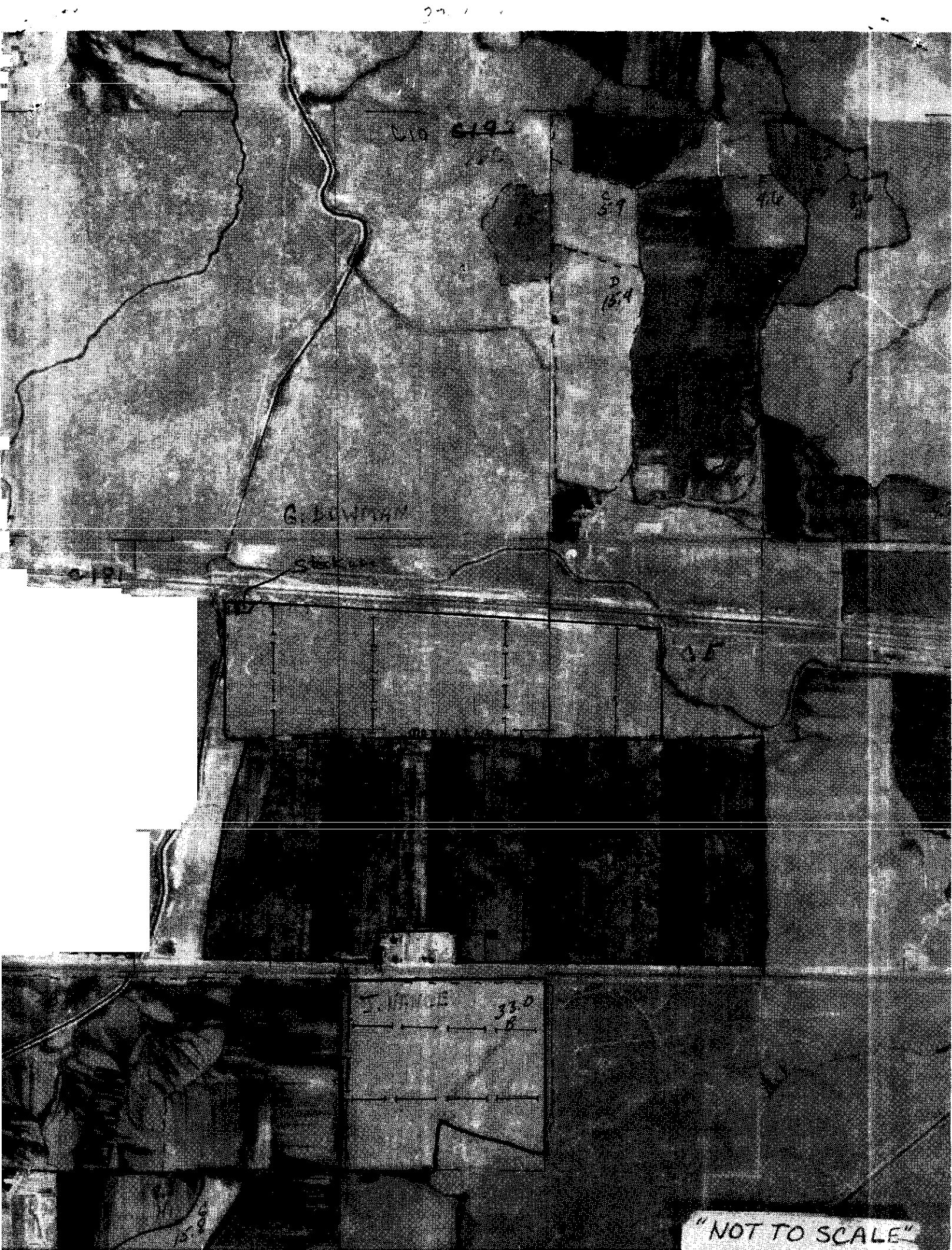
Approved by

Date 7-27-82

Date 8-24-82

Date 1/3/83

examined by _____
checked by _____
approved by _____



PLACE
TEN CENT
STAMP
HERE

RECEIVED

SEP 3 1981

Department of Water Resources



NOT FILMED

RECEIVED

AUG 27 1981

Department of Water Resources
Southern Field Office

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

DEPARTMENT OF WATER RESOURCES

37-7504

The Idaho Department of Water Resources will consider this card a statement that the permit holder(s) has completed development to the extent shown below Permit No. _____

Name(s) of Permit Holder: James R. Wallace

Post Office Address: Route 1 Dietrich Idaho

Tel. No. 544 2480

Source of Water: Ground Water

Extent of Use: ☐ Domestic _____ (number of households)
☒ Stockwater _____ (number and type of stock)
☒ Irrigation _____ (acres)
☐ Other _____

Measuring Device: Required? ☒ Yes ☐ No Installed? ☒ Yes ☐ No
 Access Port: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ No

The above information is a true statement of the extent to which the above numbered permit has been developed.

August 27 1981
 Date

James R. Wallace
 Signature of Permit Holder

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

STATEHOUSE
BOISE, IDAHO 83720
(208) 334-4440
CERTIFIED MAIL

NANCE, JERRY R.
RT. 1
DIETRICH, ID 83324

138318

JUNE 30, 1981

DEAR PERMIT HOLDER:

ONE OF THE CONDITIONS OF APPROVAL OF YOUR WATER PERMIT NO. 37-7504 WAS THAT EVIDENCE OF THE EXTENT OF DEVELOPMENT MUST BE SUBMITTED TO THIS OFFICE ON OR BEFORE SEPTEMBER 01, 1981. (SEE LAST PAGE OF YOUR APPROVED PERMIT). ENCLOSED IS A POST CARD WHICH MAY BE USED TO SUBMIT THE REQUIRED PROOF OF BENEFICIAL USE.

IF YOU HAVE NOT FULLY COMPLETED YOUR PROJECT, AND YOU HAVE NOT PREVIOUSLY RECEIVED AN EXTENSION OF TIME, YOU MAY REQUEST AN EXTENSION OF TIME PROVIDED THE DELAY IS FOR REASONABLE CAUSE AS INDICATED IN SECTION 42-204, IDAHO CODE, AMENDED. IF YOU HAVE BEEN PREVENTED FROM PROCEEDING BY A GOVERNMENTAL AGENCY OR BY LITIGATION, MORE THAN ONE EXTENSION OF TIME CAN BE GRANTED. A REQUEST FOR EXTENSION OF TIME FORM IS ENCLOSED FOR YOUR CONVENIENCE. PLEASE NOTE THAT A FEE OF \$15.00 MUST BE SUBMITTED WITH THIS FORM.

EITHER THE BENEFICIAL USE POST CARD OR A REQUEST FOR AN EXTENSION OF TIME MUST BE RECEIVED BY THIS DEPARTMENT ON OR BEFORE THE ABOVE MENTIONED DATE, OTHERWISE, THE PERMIT WILL LAPSE AND BE OF NO FURTHER FORCE OR EFFECT WITHIN 60 DAYS.

SINCERELY,

RITA FLECK
SR. SECRETARY

ENCLOSURES

RECEIVED
JUN 30 1981



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

C. STEPHEN ALLRED

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

September 29, 1980

Dear Wateruser:

The enclosed Order changes the measuring device condition of approval on your water right permit.

The changed condition is less restrictive and provides you the option to install an access port or have your system measured and certified by a professional engineer. Instructions for access port installation are also enclosed.

If you have questions regarding this matter, please contact the Regional Office nearest to you.

Sincerely,

David R. Tuthill Jr.

DAVID R. TUTHILL JR., P.E.
Supervisor, Water Allocations Section

DRT:jg

Enclosures

Northern Region Office
Rt. #5 Box 203, Government Way
Coeur d'Alene, Idaho 83814

Eastern Region Office
1515 Lincoln Road
Idaho Falls, Idaho 83401

Southern Region Office
1041 Blue Lake Boulevard North
Twin Falls, Idaho 83301

Western Region Office
92 South Cole Road
Boise, Idaho 83705

RECEIVED
SEP 30 1980

March 17, 1977

Re: Permit No. 37-7504

Jerry R. Nance
Route 1
Dietrich, Idaho 83324

Dear Mr. Nance:

Enclosed is a copy of the approved application for amendment issued on the above referenced permit.

Sincerely,

BOBBY D. FLEENOR
Chief, Water Rights

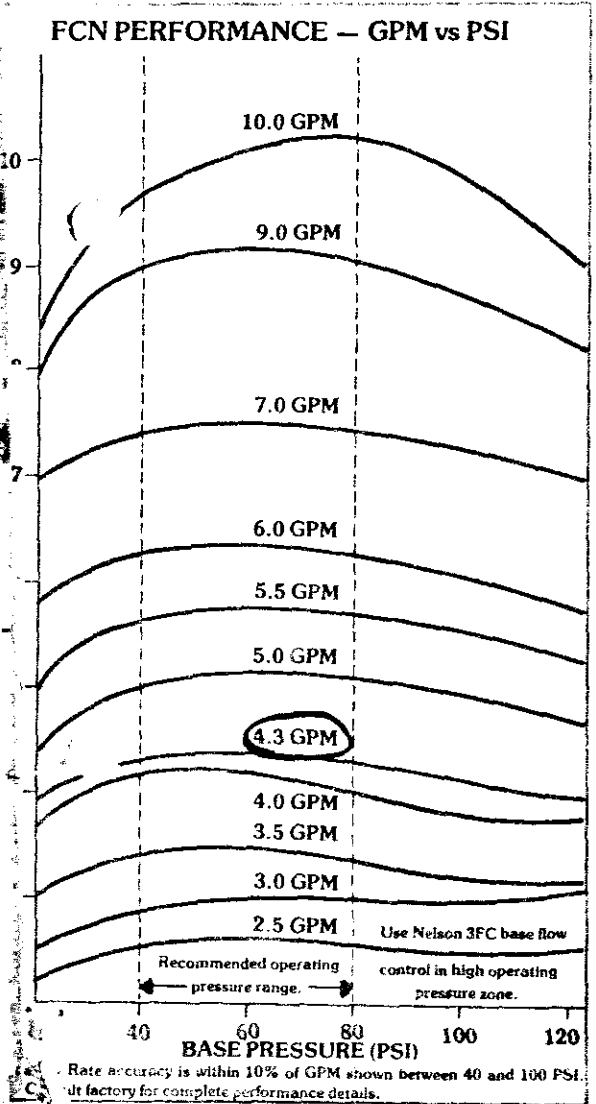
BDF:JFR

Encl.

MICROFILMED

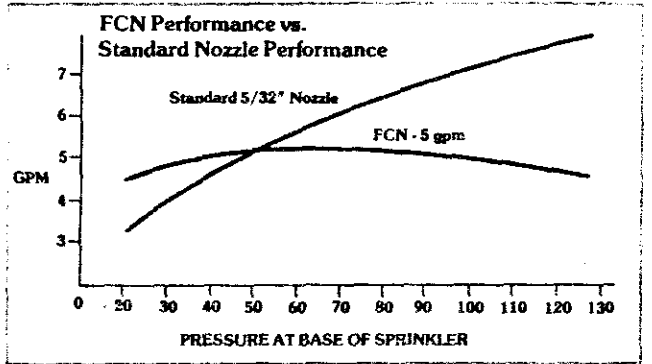
Nelson Flow Control Nozzles — FCN Series

Many factors can influence the way you apply water through your sprinkler systems. Differences in field elevation. Excessive pipe friction losses. Even fluctuations in your pump pressure. With the Nelson Flow Control Nozzle (FCN), you can now minimize the effect those factors have on your water application pattern, giving you to achieve a more uniform application of water on all parts of your field. The Nelson FCN is designed to replace the standard nozzles in your impact sprinklers. Used with hand line, wheel line or solid set sprink-

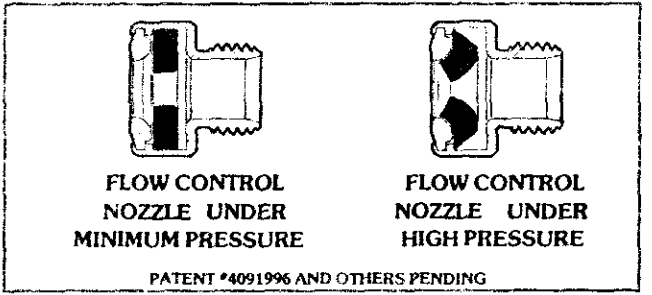


systems, the FCN can help equalize the flow rate from each sprinkler line. Or if you irrigate with a center pivot system, the FCN maintain a constant flow rate.

What does a more uniform water application pattern mean to you as an irrigator? It can mean an increase in your crop yield. A reduction in your pumping costs. And, just as importantly, a savings in water, fertilizer, and costly farm chemicals.



The chart above illustrates how the FCN serves to maintain a constant flow rate over a wide range of pressure. Notice that the GPM of a standard 5/32" nozzle will vary as much as 40% when the pressure changes from 40 psi to 80 psi, while the GPM of the FCN holds nearly constant during an identical pressure change.



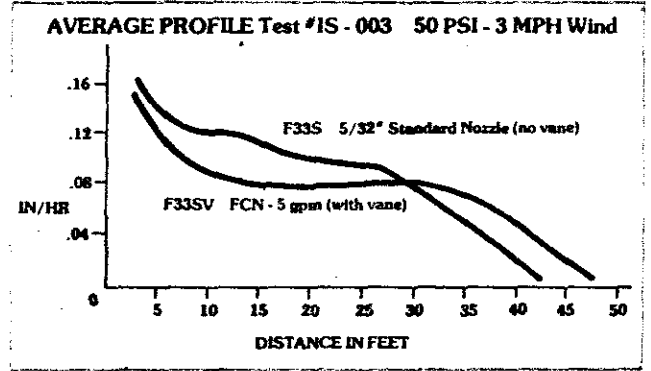
PRINCIPLE OF OPERATION

The FCN is a brass nozzle cartridge which contains a flexible orifice that contracts as the pressure increases, allowing the GPM discharge to be held constant. Since the stream is discharged across the orifice directly into the atmosphere, the pressure drop normally associated with flow control devices does not occur. Additionally, the threshold pressure — the pressure at which the FCN achieves rated flow — is much lower than that of base flow control devices.

WATER DISTRIBUTION

The average water distribution profile of a sprinkler equipped with a FCN is not significantly different from that of a sprinkler equipped with a standard nozzle. The variances shown in the comparative profiles above right are largely a result of differences in arm stroke rate, nozzle exit conditions, and stream-straightener vanes. The total amount of water collected is essentially the same, indicating that under low

wind conditions there is very little difference in irrigation efficiency or in the amount of water lost as mist. High wind test results are not yet available.



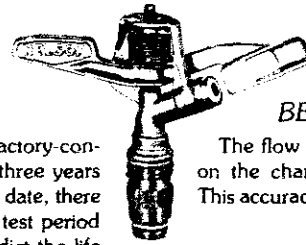
Sprinkler Performance Radius (feet) with vane

Base Psi	FCN Size (nominal gpm)							
	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0
40	45	45	46	48	51	53	54	55
50	47	47	47	48	52	54	55	56
60	47	48	48	50	52	55	56	58
70			48	50	52	56	57	58
80			49	51	53	56	58	59

Suggested Sprinkler Model Usage: F32SV, F32ASV F33SV, F33ASV F44BSV, F44SV

Stated performance is with F32SV and F33SV sprinklers (w/ vane) in no-wind test conditions. Radius is reduced 4% to 12% w/ out vane (highest reduction is in high gpm range). Derate performance 2% to 4% when using F44V series sprinklers. For performance details, consult factory.

COMMON QUESTIONS ASKED ABOUT THE FCN



WHAT IS THE FUNCTIONAL LIFE EXPECTANCY OF THE FCN?

Flow rate tests on FCN field installations and factory-controlled samples have been performed over the past three years for indications of drift from the original GPM rating. To date, there has been no indication of drift. However, since the test period has been limited, it is not possible to accurately predict the life expectancy of the FCN. Like any rubber product, the FCN's original flexing and flow control ability will begin to diminish at some point in time.

WHAT ABOUT WEAR LIFE IN ABRASIVE WATERS?

Many units have been subjected to thousands of hours of operation under abrasive water conditions, and showed no indication of wear after visual inspection. The wear life is expected to exceed that normally associated with a standard brass nozzle. However, no conclusive test data is yet available to support this claim.

DOES THE FCN THROW AS FAR AS A STANDARD NOZZLE?

The stream integrity (and therefore the throw radius) of the FCN is comparable to that of a standard nozzle. It does, however, show more evidence of turbulence in the high pressure zones and high GPM sizes. Field experience indicates that a stream straightener will improve stream integrity, increase radius of throw, and help to fight wind. The manufacturer recommends using vanes whenever possible.

WHAT LEVEL OF ACCURACY CAN BE EXPECTED FROM THE FCN?

The flow rate accuracy is within $\pm 10\%$ of the GPM shown on the chart entitled "FCN Performance — GPM vs. PSI". This accuracy is maintained between 40 psi and 100 psi.

CAN THE FCN BE USED WITH OTHER SPRINKLER BRANDS?

The FCN was developed specifically to fit Nelson 3/4" impact sprinklers. All testing and performance data shown is with Nelson sprinklers. From a practical standpoint, field experience indicates that the FCN will readily fit most competitive sprinklers. There may, however, be some thread sealing, arm clearance and rotation problems associated with other brands. Again, all data shown and statements made in this brochure are based on the use of the FCN in Nelson impact sprinklers.

HOW DOES THE FCN AFFECT SPRINKLER ROTATION?

INTERMOUNTAIN IRRIGATION SUPPLY, INC.

MICROFILMED Seward

Telephone (208) 436-9611 Route 2 200 West 50 South Rex 428 0451

EXAMPLES OF FCN APPLICATION

Typical 1/4 mile, 3" aluminum sprinkler line equipped with 5/32" standard nozzles. Pressure loss due to pipe friction, 18 psi. **Problem:** Variation in discharge between first and last sprinkler 17%. **Solution:** Substitute FCN-5 gpm. Variation between first and last sprinkler reduced to 0%.

Same example as above, but with elevation increase. **Problem:** 18 psi friction loss plus 17 psi loss due to elevation. Discharge variation from first to last sprinkler 32%. **Solution:** Substitute FCN-5 gpm. Reduce variation in discharge to 0%.

Center Pivot System

Typical pivot system with elevation change of 50' between high and low point operating at design pressure of 50 psi. **Problem:** Discharge variation between position A & B, 25%. **Solution:** Equip pivot sprinklers with FCN, reduce variation to 0%.

The above examples are simple, single line systems with problems common to most systems, i.e., excessive friction loss and/or elevation problems. Most systems are more complicated and involve multiple lines and pumps where discharge variation problems due to elevation and friction loss are compounded by lines being turned on and off, by fluctuating pump pressures and by hydraulic imbalance problems. By utilizing the FCN, the pressure variations unique to the system do not cause variations in water application from one part of the field to the next, conserving water, fertilizer and chemicals.

Note: On multiple line systems, the full value of the FCN may not be realized unless all the sprinklers served by one pump are equipped with the FCN.

CONVERTING EXISTING SYSTEMS TO THE FCN - WHAT TO EXPECT

If the FCN size is correctly selected so that the pump discharge after conversion equals the discharge before conversion, the system pressure will remain nearly the same. However, if the FCN size selected results in a lower total pump discharge than before conversion, the system pressure could increase depending on the pump curve. Conversely, the pressure could drop if too large an FCN size is selected, resulting in a higher discharge than existed before conversion. In some complicated piping networks it may be very difficult to determine the average sprinkler flow rate. In this case, more than one size FCN may have to be tried to determine the correct FCN size.

FCN - THE ENERGY SAVER

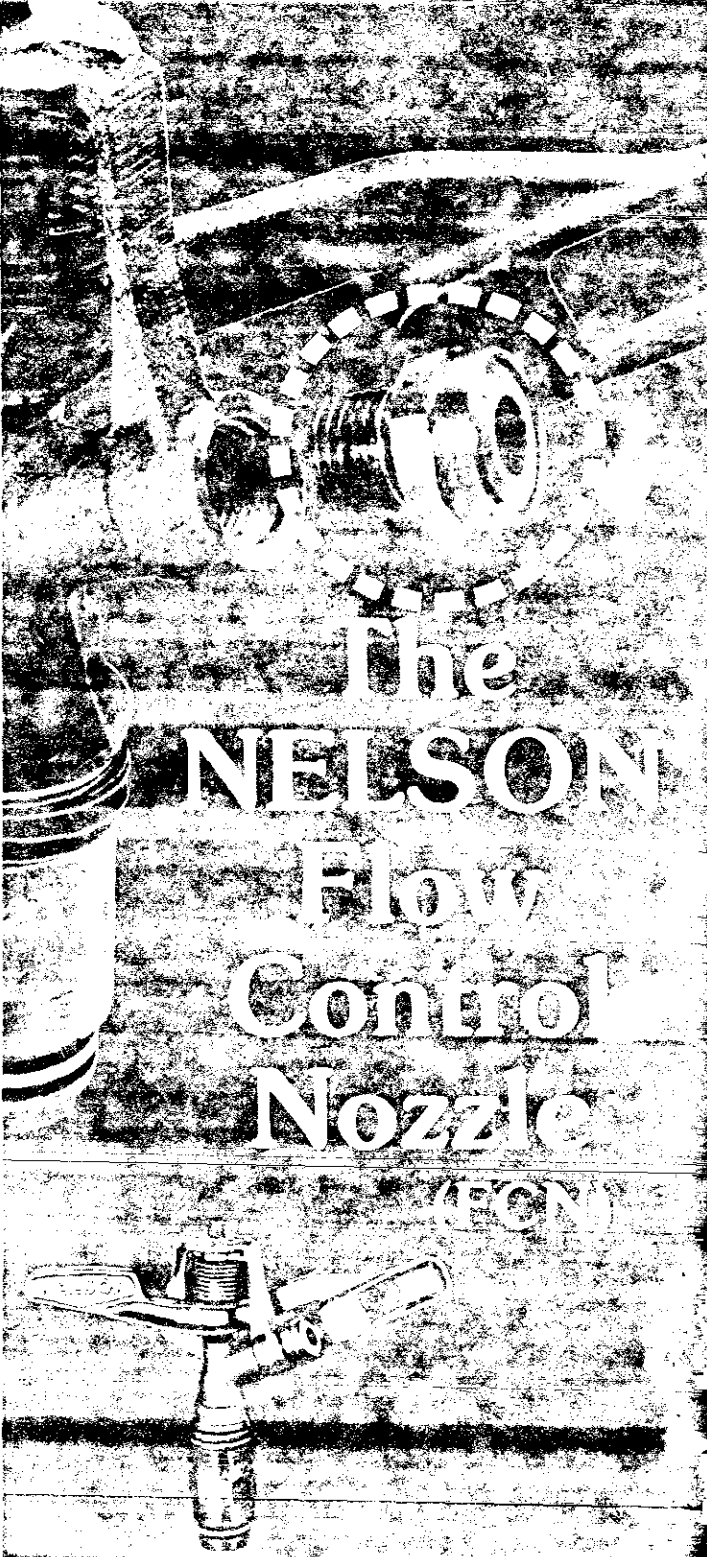
Under most circumstances, the FCN can reduce the energy requirements of an irrigation system. For example, assume that a typical hand-line with a normal 20% variation in discharge from one end to the other will apply 1/4" of water per hour, and that a 2" application is desired during an eight-hour set. During that eight hours, however, the system applying 20% less water has only received 1.6". For adequate ir-

rigation in all parts of the field, therefore, the system must be operated another 1.6 hours. This is an obvious waste of pumping time, resulting in higher energy costs and wasted water in the area that has been overwatered. Also, consider the waste of fertilizer or other chemicals, particularly if they are being applied through the system. The use of the FCN will reduce this variation to 0%, thereby reducing energy requirements.

SIGNIFICANCE OF LOW PRESSURE CONTROL

When standard nozzles are used, the deviation in discharge increases dramatically for a given elevation change when operating pressures decline. For example, when a system with an operating pressure of 80 psi is used in a field with a 30-foot elevation change, the gpm deviation from the high to low elevation is 8%. But when operating pressures drop to 40 psi on that same 30-foot elevation change, the gpm deviation increases to 18%.

Now apply the same conditions to an FCN-equipped system. As shown in the "GPM vs. Pressure" graph, the FCN holds the deviation in discharge to a minimum.



The
NELSON
Flow
Control
Nozzle
(FCN)

zies are ideal for use in sprinkler systems subjected to excessive friction losses, or uneven terrain as shown above.

Warranty

Installation Capabilities Flow Control Nozzles (FCN) are warranted for a period of one year from date of original sale to be free of defective materials and workmanship when used within the working specifications as stated on the manufacturer's literature. The manufacturer assumes no responsibility for installation, unauthorized repair. The manufacturer's liability under this limited warranty is restricted to replacement of defective FCN and the manufacturer will not be liable for any crop or consequential damages in any claims or breach of warranty. The manufacturer makes no representation regarding droplet conditions, uniformity of flow rate or life expectancy. Test results used to determine performance data have been obtained under ideal conditions and may be adversely affected by wind, poor hydraulic conditions or other factors. This warranty is expressly in lieu of all other warranties, including the warranties of merchantability and particular purposes and of all other obligations or liabilities of the manufacturer.

The employee or representative of manufacturer has authorized to add to the provisions of this warranty nor to make any alterations or warranty not contained herein. The manufacturer reserves the right to change the FCN design or material which may affect performance in this brochure. This warranty is void when the FCN is not used with Nelson Corporation.

Nelson Irrigation Corporation
Route 4, Box 169, Airport Road
Walla Walla, Washington 99362
Phone (509) 525-7660

September 27, 1976

Re: Permit No. 37-7504

Jerry R. Nance
Route #1
Dietrich, ID 83324

Dear Mr. Nance:

Enclosed is a copy of your approved Application for Permit No. 37-7504. We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note that a special condition requiring you to install and maintain a measuring device at your point of diversion has been placed upon your permit. We are enclosing a letter describing different types of measuring devices accepted by this office.

Sincerely,

BOBBY D. FLEENOR
Chief, Water Rights

Enclosure: Copy of permit

DEPARTMENT OF WATER RESOURCES
- STAFF ANALYSIS -

Item Initial Date
TGB 7-23-76

Application No. 37-7504 Jerry R. Nance

☒ 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) TGB 7-23

In form to receipt

(2) TGB 7-23

Send Copies to:

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

(3) TGB 7-23

Request Special Use Permit from U.S.F.S.
Request Easement from B.L.M.
Request Information from Applicant

(4) ADM 7-23

In form for advertising

(5) _____

Platted on Map No. _____

(6) _____

Located within Water District No. _____

(7) mls 9-15-76

Critical groundwater area: yes _____ no ☒

(8) mls 9-15-76

Groundwater levels:

Declining, ☒ Stable, _____ Increasing

(comment) _____

(9) _____

Other rights on the same place of use

(10) _____

Comments: _____

(11) _____

Affidavit of Publication received (date) _____
FIRST AFFIDAVIT RECEIVED IN ERROR 8-16-76

(12) _____

Final date for protests SEPTEMBER 6, 1976
Protests received: yes _____ no ☒

(13) _____

All requested information received from agencies or applicant: yes _____ no _____

(14) mls 9-15-76

Action recommended:

☒ Approve _____ Deny

Proposed Priority _____

Reason for Reduction _____

☒ Measuring device required

See attached sheet for other conditions of approval

No special conditions for approval

(15) District Southern By Michael Steub Date 9-15-76

Copy of App. sent to Boise 7-26-76 DJ

July 23, 1976

Lincoln County Journal
P. O. Box 704
Shoshone, Idaho 83352

Re: Application for Permit No 37-7504 - Jerry R. Nance

Gentlemen:

Enclosed you will find a legal notice which we wish to have published once a week for two consecutive weekly issues of your newspaper. We have inserted the publication dates allowing ample time for you to submit us a galley proof for review before publication.

After sending us a galley proof, proceed with the publication on the dates we have inserted, assuming the notice is correct. If we have any corrections, we will notify you before the first publication. If you cannot publish the notice on the proposed dates, please contact us immediately.

In order to receive payment, an affidavit of publication must be submitted to the Department along with the publication bill.

Sincerely,

Michael L. Steele
Southern Region Supervisor

MLS:pj

Enc.

Bill submitted: _____

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Jerry R. Nance
Route #1, Dietrich, Idaho 83324
has on 7-22-76 submitted Application No. 37-7504
for a permit to appropriate 7.32 cubic feet per second ~~above flood plain~~
of water from groundwater
by means of well, pump, motor and sprinkler system
within the SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 9, Twp. 6S, Rge. 19E, B.M., Lincoln County

to be used from March 15 to Nov. 15 (irrigation), Jan. 1 to Dec. 31 (stockwater)
for irrigation and stockwater

Error from newspaper
within the SE $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 9, Twp. 6S, Rge. 19E, B.M. (360 acres)

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, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before August 16, 1976.
" 23, 1976
Sept. 6, 1976

R. KEITH HIGGINSON

Director

Published in the Lincoln County Journal
on July 29 and August 5, 1976
Publishing dates changed to 8-5-76 & 8-18-76 AS
August 19th August 26th NEWSPAPER ERROR

SHONI LEGAL — le

**NOTICE OF APPLICATION
FOR WATER PERMIT**

Notice is hereby given that Jerry R. Nance, Route #1, Dietrich, Idaho 83324 has on 7-22-76 submitted Application No. 37-7504 for a permit to appropriate 7.32 cubic feet per second of water from ground-water by means of well, pump, motor and sprinkler system within the SW¹/₄SE¹/₄, Sec. 9, Twp. 6S, Rge. 19E, B.M. Lincoln County to be used from March 15 to Nov. 15 (irrigation), Jan. 1 to Dec. 31 (stockwater) for irrigation and stockwater within the SE¹/₄NE¹/₄, SW¹/₄, Sec. 9, Twp. 6S, Rge. 19E, B.M. (360 acres). 23
1/4

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, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before August 23, 1976.

/S/ R. KEITH HIGGINSON
Director