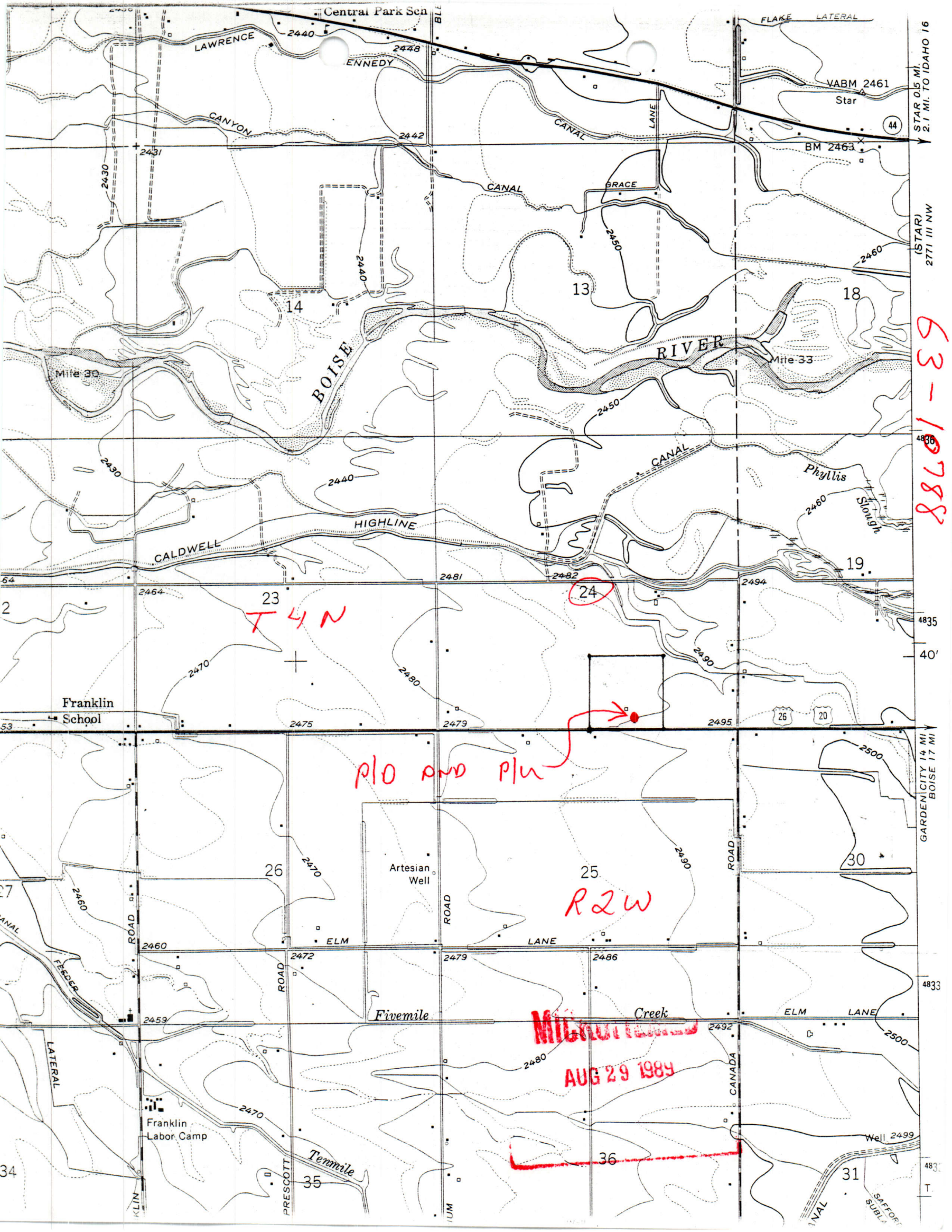




T4N

p10 and p1u

R2W

MILITARY

AUG 29 1989

63-10788

STAR 0.5 MI.
2.1 MI. TO IDAHO 16
(STAR)
2771 III NW

GARDEN CITY 14 MI
BOISE 17 MI

RECEIVED
MAY 25 1989

Department of Water Resources
Western Regional Office

**NOTICE OF APPLICATION
FOR WATER RIGHT**

The following applications have
been filed to appropriate the public
waters of the State of Idaho:

63-10788 ✓

ROGERS BROTHERS SEED CO.
P.O. Box 4727
BOISE, ID 83711-0727
Source: GROUNDWATER
Diversion Pt: SWSE Sec 24 T 04N
R 02W
Use: COMMERCIAL (.670 CFS)
Date Filed: May 1, 1989

In: T04N R02W S24 SWSE
63-10789

SLOVIACZEK, TAMARA
SOMMER, TIM
11741 BULLOCK LN.
MIDDLETON, ID 83644
Source: GROUNDWATER
Diversion Pt: LOT 3 (NWNWSW)
Sec 19 T 05N R 02W
Use: IRRIGATION (.200 CFS)
COMMERCIAL (.200 CFS)
Date Filed: April 12, 1989
In: T05N R02W S19 Lot 3 (NWSW)
10.0 ACRES TOTAL
63-10791

LAKEY, LENA C.
c/o LAKEY'S TRAILER CT.
CALDWELL, ID 83605
Source: GROUNDWATER
Diversion Pt: SWSESE Sec 24 T
04N R 03W
Use: IRRIGATION (.030 CFS)
COMMERCIAL (.100 CFS)
DOMESTIC (.100 CFS)
Date Filed: April 21, 1989
In: T04N R03W S24 SESE
1.0 ACRES TOTAL

The permits will be subject to all
prior water rights. Protests must
be filed with the Director, Dept. of
Water Resources, Western Region,
2735 Airport Way, Boise, Idaho
83705 on or before JUNE 5, 1989.

R. KEITH HIGGINSON
Director
May 17, 24, 1989

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO)
) ss.
County of Canyon)

Debra Martin del Campo

of Nampa, Canyon County, Idaho, being first duly sworn, deposes
and says:

1. That I am a citizen of the United States of America, and at all
times hereinafter mentioned was over the age of eighteen years,
and not a party to the above entitled action.

2. That I am the Principal Clerk of the Idaho Press-Tribune, a
daily, (except Saturday) newspaper published in the City of
Nampa and Caldwell, in the County of Canyon, State of Idaho;
that the said newspaper is in general circulation in the said
County of Canyon, and in the vicinity of Nampa and Caldwell, and
has been uninterruptedly published in said County during a period
of seventy-eight consecutive weeks prior to the first publication of
the notice, a copy of which is hereto attached.

3. That the notice, of which the annexed is a printed copy, was
published in said newspaper

Two times

—in the regular and entire issue of said paper, and was printed in
the newspaper proper, and not in a supplement.

4. That said notice was published the following dates:

May 17, 24, 1989

STATE OF IDAHO)
)
COUNTY OF CANYON)

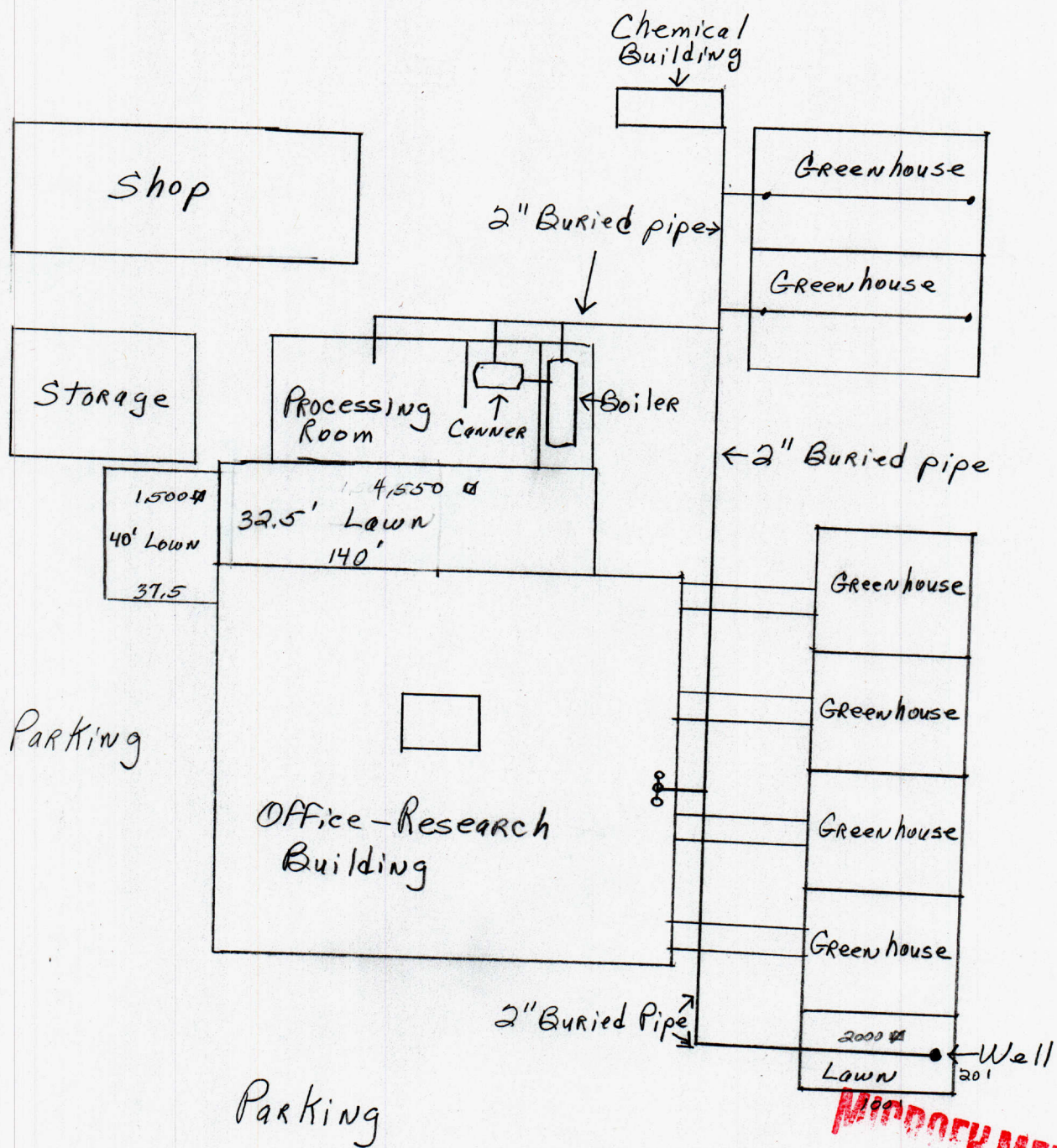
On this 24th day of May in the
year of 1989, before me, a Notary Public, personally
appeared Debra Martin del Campo, known
or identified to me to be the person whose name subscribed to the
within instrument, and being by me first duly sworn, declared
that the statements therein are true, and acknowledged to me that
he/she executed the same.

Jannel Lee
Notary Public for Idaho
Residing at Nampa

MY COMMISSION EXPIRES
JULY 12th, 1991

MICROFILMED
AUG 29 1989

63-10788 System Diagram



Lawn 1,200 sq ft
10'

Lawn 10,800 sq ft 40'
270

Lawn area = 20,050 sq ft = .45 acres.

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OCT 27 1992

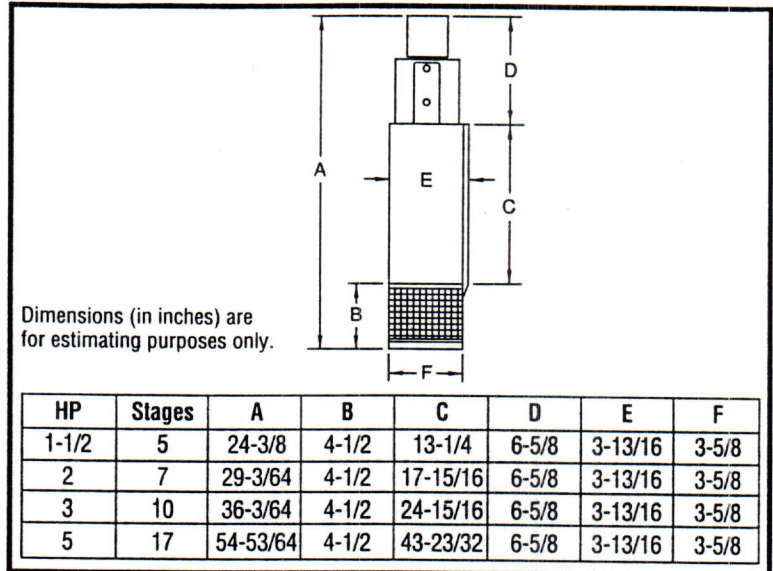
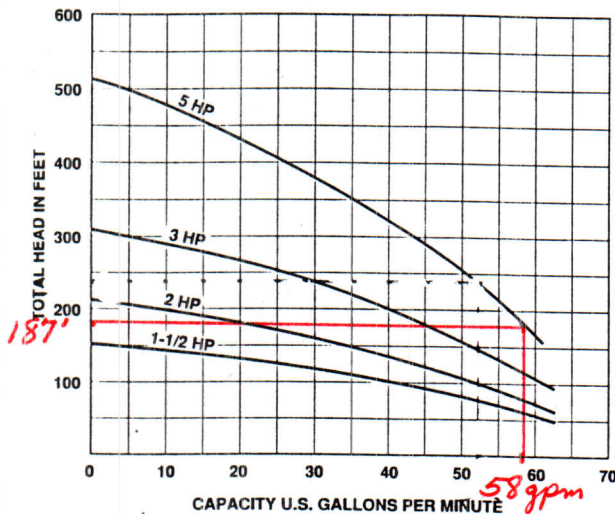
4" Submersible Pumps

63-10788

40 GPM

Design Series

Pump Performance



Pump Performance

$$2.3 \times 55 = 127$$

$$\text{lift} = \frac{60}{187} = \text{TPH}$$

HP	Series	PSI	Pumping Depth in Feet																
			20'	40'	60'	80'	100'	125'	150'	175'	200'	250'	300'	350'	400'	450'	500'	550'	600'
			Capacity — Gallons Per Minute																
1-1/2	40	0	—	—	59.3	50.8	40.0	24.0	4.4										
		30	46.6	35.5	22.0	9.1													
		40	33.1	18.8	1.5														
		50	16.0																
		60																	
2	40	0	—	—	63.1	58.5	52.8	46.0	33.1	21.5	8.0								
		30	56.4	50.0	42.4	34.0	24.8	11.5											
		40	48.8	40.8	32.0	22.8	12.4												
		50	40.0	31.1	21.5	10.8													
		60	29.5	20.0	9.1														
3	40	0	—	—	—	—	61.0	56.4	51.4	45.5	38.4	23.0	4.0						
		30	63.0	59.5	60.0	51.8	47.1	40.4	32.8	23.5	16.4								
		40	58.8	55.0	50.8	46.4	40.4	33.1	25.4	17.1	7.1								
		50	54.4	50.4	45.5	39.5	33.0	25.0	17.0	8.0									
		60	49.5	46.8	38.8	32.8	26.8	18.4	9.0										
5	40	0	—	—	—	—	—	—	59.1	64.7	50.6	43.7	35.3	26.1	16.0	4.2			
		30	—	—	—	—	59.7	57.0	54.3	51.2	48.1	40.5	32.0	22.3	12.0				
		40	—	—	—	59.2	57.2	54.5	51.7	48.3	44.9	36.9	27.9	17.9	6.9				
		50	—	—	59.0	56.9	54.9	51.8	48.5	45.0	41.0	33.0	33.2	13.0					
		60	60.7	58.7	56.5	54.3	51.9	48.6	45.3	41.3	37.1	21.6	18.1	7.3					

CAUTION: DO NOT use pump at flow rates indicated by the symbol —. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a CON-AIRE® tank require a 100# relief valve. Pumps installed with a conventional tank require a 75# relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

STA-RITE / a WICOR company

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S4527WS (Rev. 4/91)

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Central Park Sch

PERMIT 63-10788 INIT

T. R. S. Q/Q

P/D 4W 2W 24 SWSE

SCALE

PHOTO ID. X6

VABM 2461

DM 2463

Mile 88

Phyllis

P/D
P/U

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63-10788



#1

P/D



#2

P/U - offices
for research
center

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63-10788



#3

View of office
and greenhouses
looking Northwest
across Hwy 20-26.



#4.

View of the interior
of one of four
research greenhouses.
The cooling pads are
at the rear of the
greenhouse and
the method of
irrigating is the
gardenhose in the
middle of the building

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63-10788



#5-

View of the
interior of one
research greenhouse
containing bean
seedlings



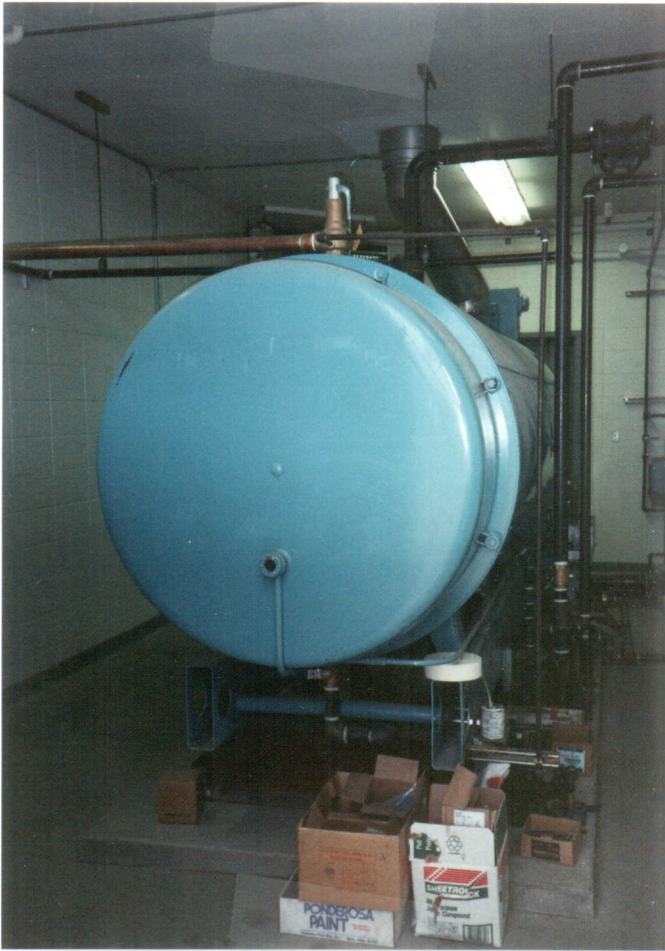
#6.

View of the two
Spring greenhouses
and chemical
building.

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OCT 27 1992

63-10788



#7

The boiler that provides hot water to the canner that is located in an adjacent room to the boiler room.



#8.

The shop building

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63-10788



#9.
The storage
building



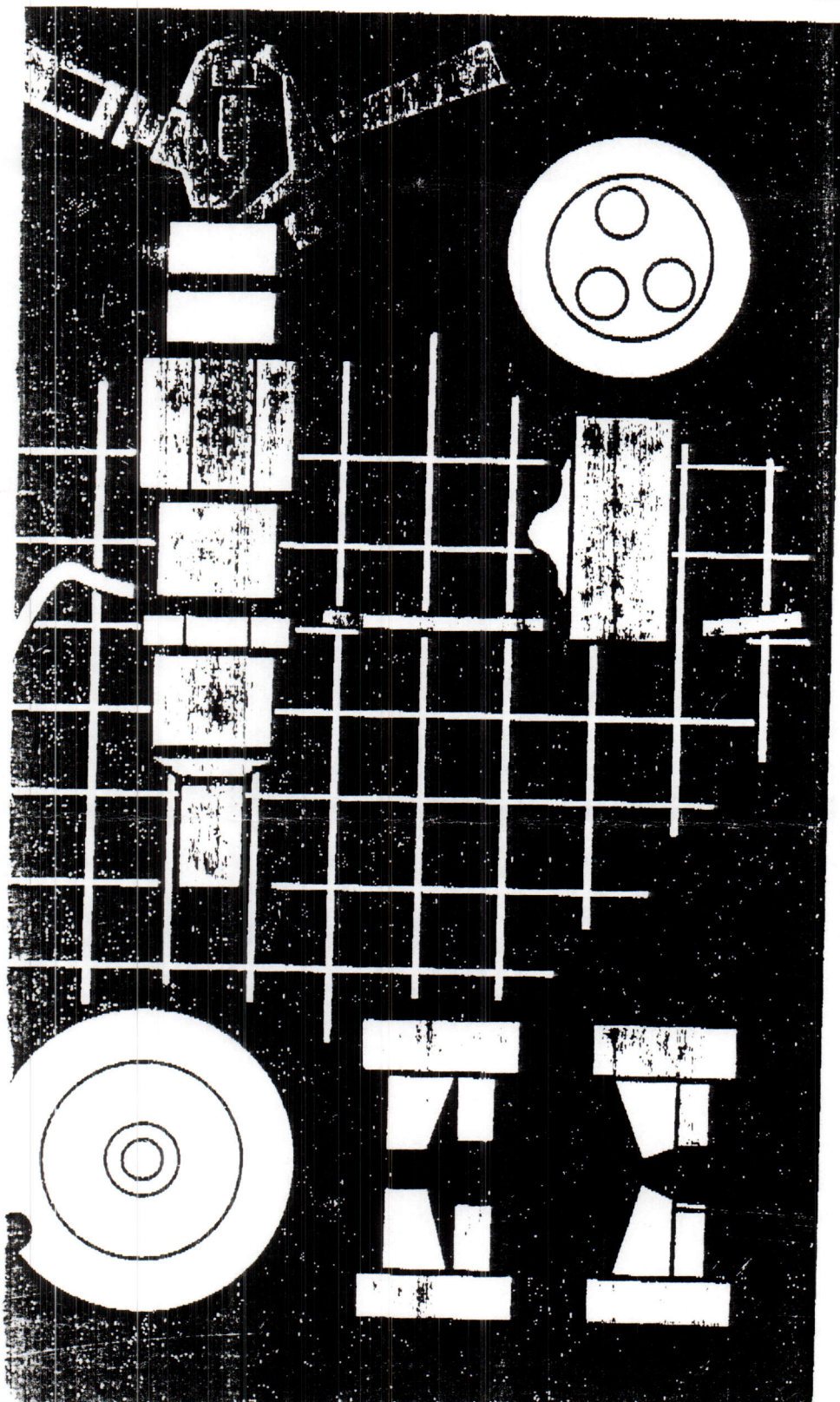
#10
View of the shop,
storage and
office/research
building looking
Northeast from
 Hwy 20/26.

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OCT 27 1992

RECEIVED OCT 12 1989

Dole® Flow Regulators



For
Energy
Conservation
and
Water
Management

MICROFILMED

APR 12 1990

Dole® Flow Regulators for Industrial Applications

Cooling Tower Bleeds • Tankless Heaters • Irrigation Sprinklers • Condensers • Cooling Jackets
Pumps • Water Softeners • Water Filters, etc.

MODEL	FLOW G.P.M.	INLET CONN. Nickel Plated	OUTLET CONN.
1/4G	.125	1/4" F NPT	1/4" F NPT
1/4G	.25	1/4" F NPT	1/4" F NPT
1/4G	.50	1/4" F NPT	1/4" F NPT
1/4G	.75	1/4" F NPT	1/4" F NPT
1G	1.00	1/4" F NPT	1/4" F NPT

1 1/4G	1.5	1/4" F NPT	1/4" F NPT
2G	2.0	1/4" F NPT	1/4" F NPT
2 1/2G	2.5	1/4" F NPT	1/4" F NPT
3G	3.0	1/4" F NPT	1/4" F NPT
3 1/2G	3.5	1/4" F NPT	1/4" F NPT
4G	4.0	1/4" F NPT	1/4" F NPT

5G	5.0	1/4" F NPT	1/4" F NPT
6G	6.0	1/4" F NPT	1/4" F NPT
7G	7.0	1/4" F NPT	1/4" F NPT
8G	8.0	1/4" F NPT	1/4" F NPT
9G	9.0	1/4" F NPT	1/4" F NPT
10G	10.0	1/4" F NPT	1/4" F NPT

MODEL	FLOW G.P.M.	INLET CONN. Nickel Plated	OUTLET CONN.
2GX	2.0	1" F NPT	1" F NPT
2 1/2GX	2.5	1" F NPT	1" F NPT
3GX	3.0	1" F NPT	1" F NPT
3 1/2GX	3.5	1" F NPT	1" F NPT
4GX	4.0	1" F NPT	1" F NPT
4 1/2GX	4.5	1" F NPT	1" F NPT
5GX	5.0	1" F NPT	1" F NPT
6GX	6.0	1" F NPT	1" F NPT
7GX	7.0	1" F NPT	1" F NPT
8GX	8.0	1" F NPT	1" F NPT
9GX	9.0	1" F NPT	1" F NPT
10GX	10.0	1" F NPT	1" F NPT
12GX	12.0	1" F NPT	1" F NPT
15GX	15.0	1" F NPT	1" F NPT
20GX	20.0	1" F NPT	1" F NPT
25GX	25.0	1" F NPT	1" F NPT
30GX	30.0	1" F NPT	1" F NPT

MODEL	FLOW G.P.M.	INLET CONN. Zinc Plated	OUTLET CONN.
35GH	35.0	2 1/2" M NPT	2 1/2" M NPT
40GH	40.0	2 1/2" M NPT	2 1/2" M NPT
45GH	45.0	2 1/2" M NPT	2 1/2" M NPT
50GH	50.0	2 1/2" M NPT	2 1/2" M NPT
55GH	55.0	2 1/2" M NPT	2 1/2" M NPT
60GH	60.0	2 1/2" M NPT	2 1/2" M NPT
70GH	70.0	2 1/2" M NPT	2 1/2" M NPT
80GH	80.0	2 1/2" M NPT	2 1/2" M NPT
90GH	90.0	2 1/2" M NPT	2 1/2" M NPT

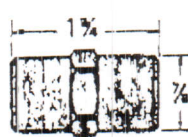
NOTE: We do not recommend using the "G" series flow regulators in conjunction with plumbing fixtures.

*Use of strainer ahead of the 1/4 G Flow Regulator is recommended.

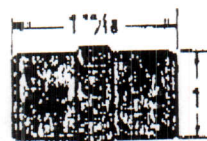
Physical Dimensions

Basic "G" Series

(see above chart for data)



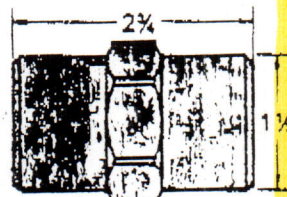
1/4G-1G
3 oz. each



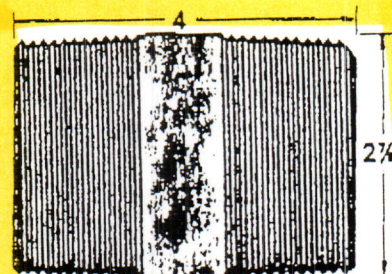
1 1/4G-2G-2 1/2G-3G-3 1/2G-4G
3 1/2 oz. each



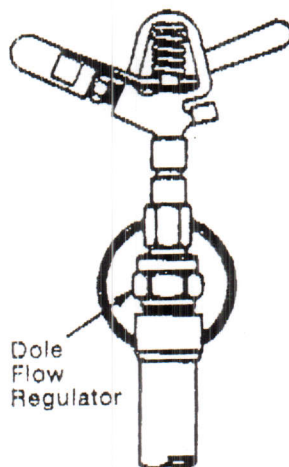
5G-8G-7G
8G-9G-10G
7 1/2 oz. each



2GX-2 1/2GX-3GX-3 1/2GX-4GX
4 1/2GX-5GX-6GX-7GX-8GX
9GX-10GX-12GX-15GX-20GX
25GX-30GX
12 oz. each



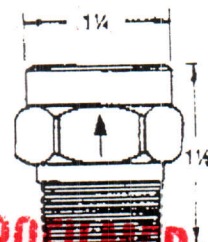
35GH-40GH-45GH-50GH-55GH
60GH-70GH-80GH-90GH
3 lbs. each



Dole
Flow
Regulator

GY Series Flow Regulators For Irrigation

Brass Model	Flow Rate G.P.M.	Inlet Connection	Outlet Connection
2GY	2.0	1/4" M NPT	1/4" F NPT
2 1/2GY	2.5	1/4" M NPT	1/4" F NPT
3GY	3.0	1/4" M NPT	1/4" F NPT
3 1/2GY	3.5	1/4" M NPT	1/4" F NPT
4GY	4.0	1/4" M NPT	1/4" F NPT
5GY	5.0	1/4" M NPT	1/4" F NPT
6GY	6.0	1/4" M NPT	1/4" F NPT
7GY	7.0	1/4" M NPT	1/4" F NPT
8GY	8.0	1/4" M NPT	1/4" F NPT
9GY	9.0	1/4" M NPT	1/4" F NPT
10GY	10.0	1/4" M NPT	1/4" F NPT



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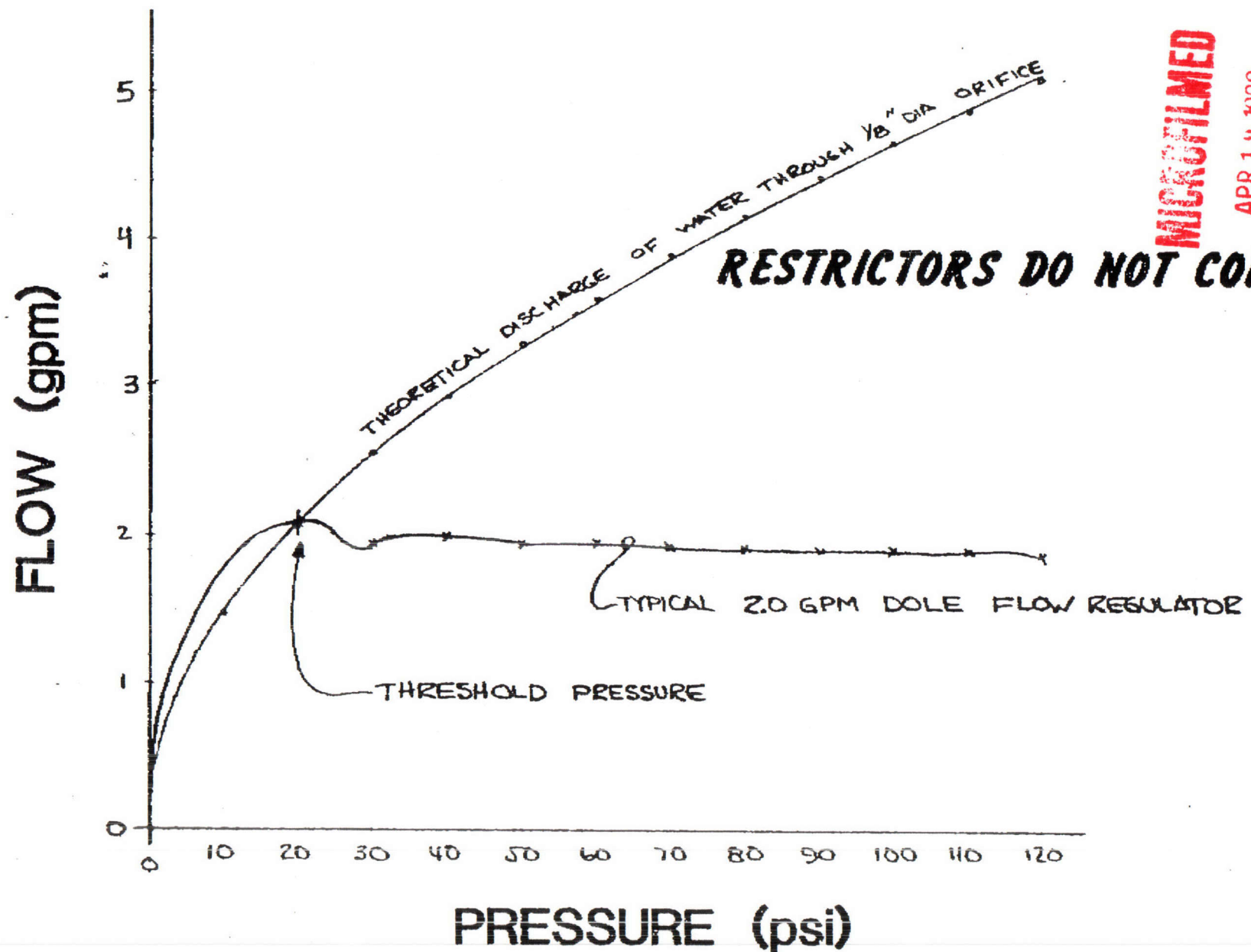
All fittings approximate net shipping weight 4oz. each in unfinished brass. Also available is a tough nylon version of the GY series at 1 1/4 oz. each. Information supplied upon request.

EATON Control Systems

Eaton Corporation
Control Systems
Energy Controls
191 East North Ave.
Carol Stream, Illinois 60187

FLOW COMPARISON

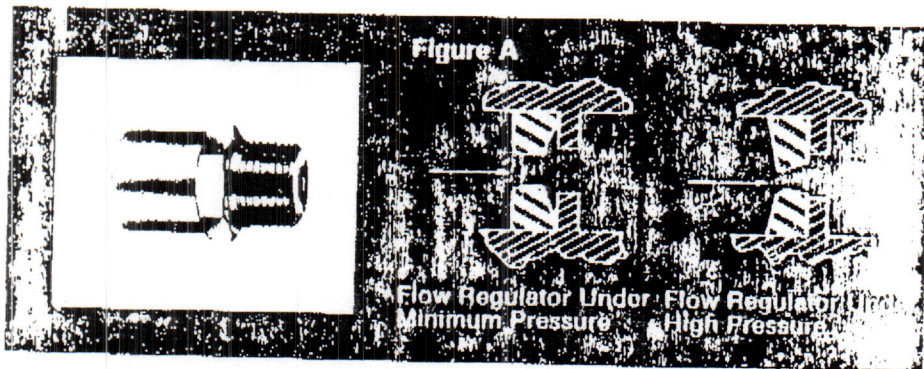
DOLE FLOW REGULATOR vs. A FLOW RESTRICTOR



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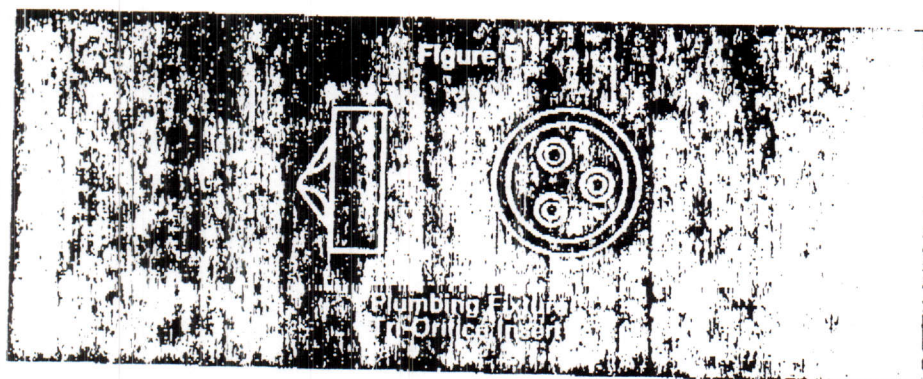
APR 19 1990

Dole® FLOW REGULATORS FOR ENERGY CONSERVATION AND WATER MANAGEMENT



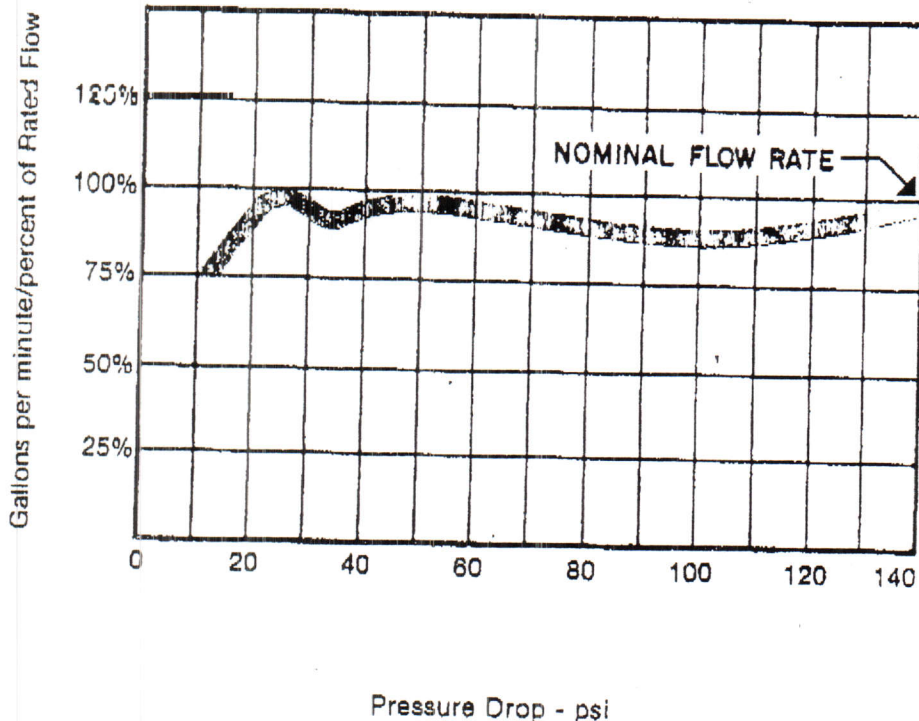
How Dole Flow Regulators Work

The Dole Flow Regulator is a simple, self-cleaning device designed to deliver a constant volume of water from any outlet whether the pressure drop is 20 psi or as high as 125 psi. The controlling mechanism consists of a flexible orifice that varies its area inversely with the pressure so that a constant flow rate is maintained. Figure A illustrates how a single orifice, for simplicity of explanation, changes shape to maintain a constant flow rate as the inlet pressure increases. As with any small orifice or restriction in a plumbing system, an audible sound may develop, depending on system design. Dole Tri-Orifice inserts are used wherever possible to minimize this phenomenon.



Control Accuracy

Until the inlet pressure reaches the threshold pressure, generally 20 psi, the flexible insert remains as a fixed orifice. After the threshold pressure is reached, the pressure drop will be whatever is necessary to absorb the energy not required to overcome the system resistance and to sustain a rated flow. The curve shown is typical of most regulators regardless of the rated flow. It is possible to approximate the flow of an individual regulator by using the line marked "Nominal Flow Rate" as the desired rate. Flow rates are accurate within plus or minus 15% of the nominal flow rate. Good accuracy is maintained to about 125 psi. The above figures represent pressure drop across the valve. Maximum allowable working temperature is 160°F.



APR 19 1990

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE
WATER RIGHT NO. 63-10788

Priority: May 1, 1989

Maximum Diversion Rate: 0.11 CFS
Maximum Diversion Volume: 20.0 AF

This is to certify, that ROGERS BROTHERS SEED CO
PO BOX 4727
BOISE ID 837110727

has complied with the terms and conditions
of the permit, issued pursuant to Application for Permit dated May 1, 1989; and
has submitted Proof of Beneficial Use on February 12, 1990. An examination indicates
that the works have a diversion capacity of .130 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>
COMMERCIAL	01/01 to 12/31	0.11 CFS	20.0 AF

LOCATION OF POINT(S) OF DIVERSION: SWSE , Sec. 24, Township 04N, Range 02W
CANYON County

PLACE OF USE: COMMERCIAL
TWN RGE SEC

04N 02W 24 SWSE

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 more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
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. Water used under this right if discharged into a natural channel or subsurface system shall meet Idaho Water Quality Standards.
6. Commercial use is for a research center.

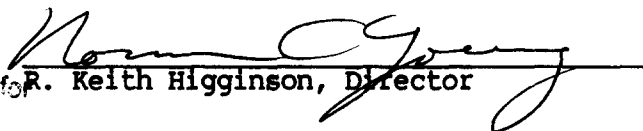
Microfilm

OCT 27 1992

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE
WATER RIGHT NO. 63-10788

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 8TH
day of OCTOBER, 1992


Acting for R. Keith Higginson, Director

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OCT 27 1992

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-10788

Proposed Priority: May 1, 1989

Maximum Diversion Rate:

0.67 CFS

This is to certify, that **ROGERS BROTHERS SEED CO.**
P.O. BOX 4727
BOISE, ID 837110727

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

BENEFICIAL USE

PERIOD OF USE

RATE OF DIVERSION

COMMERCIAL

01/01 to 12/31

0.67 CFS

LOCATION OF POINT(S) OF DIVERSION:

SWSE

Sec. 24, Township 04N, Range 02W
CANYON County

PLACE OF USE: COMMERCIAL

TWN RGE SEC

04N 02W 24

SWSE

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **August 1, 1990.**
2. Subject to all prior water rights.
3. Permit holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
4. Water used under this permit if discharged into a natural channel or subsurface system shall meet Idaho Water Quality Standards.
5. Prior to the diversion of water under this permit a flow measurement port or other device as specified by the Department shall be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
6. Commercial use is for research center.

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

25th day of July, 1989

R. Keith Higginson
for R. Keith Higginson, Director

MICROFILMED
AUG 29 1989

Ident. No. 63-10788

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name: ROGERS BROTHERS SEED CO. 208-322-7272
Address: P.O. BOX 4727
BOISE, ID 83711-0727
2. Source: GROUNDWATER Trib. to:
3. Location of point of diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
04N	02W	24	SW	SE			CANYON
4. Water will be used for the following purposes:

Purpose	From	To	CFS	(or)	AFA
COMMERCIAL	01/01	12/31	0.670		
5. Total quantity appropriated is:
0.670 CFS (and/or) AFA
6. Proposed diverting works:
 - a. Description of ditches, flumes, pumps, headgates, etc.
PUMP, PRESSURE TANKS, PIPELINES
 - b. Height of storage dam feet; active reservoir capacity
acre-feet; total reservoir capacity acre-feet; period of
year when water will be diverted to storage: to inclusive.
 - c. Proposed well diameter is inches; proposed depth of well is
feet.
 - d. Is groundwater with a temperature greater than 90F being sought? NO
7. Time required for the completion of the works and application of
the water to the proposed beneficial use is 1 years.
8. Description of proposed uses:

I

NOT RECORDED

AUG 29 1989

9. Description of place of use:

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
04N	02W	24	SW SE		COMMER	

10. Describe any other water rights used for the same purposes.
NONE

11. a. Who owns the property at the point of diversion?

APPLICANT

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

APPLICANT

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

12. Remarks:

13. Map of proposed point of diversion and place of use attached? ☒

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.

Leon A. Hansen
Applicant

VICE PRESIDENT - RESEARCH

Received by SL Date 5/1/89 Time 10:30 Preliminary check by SL

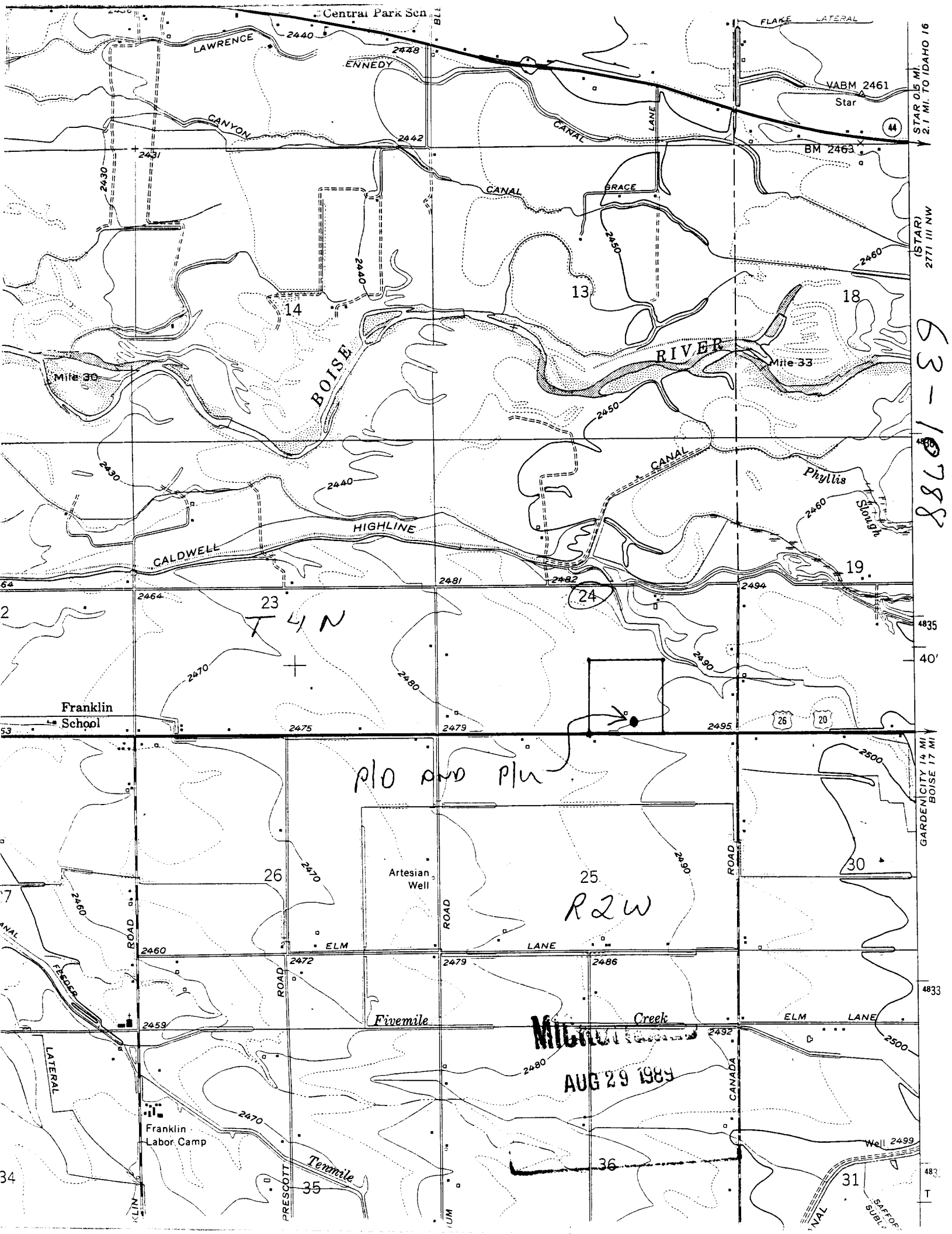
Fee \$ 45 Receipted by SL # W002650 Date 5/1/89

Publication prepared by GG Date 5/10/89 Published in Press Tribune

Publication approved ST Date 5/17 & 5/24/89
6-20-89

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AUG 29 1989



STAR 05 MI.
2.1 MI. TO IDAHO 16

(STAR)
2771 III NW

63-10788

GARDEN CITY 14 MI.
BOISE 17 MI.

4833

483

T

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO)
) ss.
County of Canyon)

**NOTICE OF APPLICATION
FOR WATER RIGHT**
The following applications have
been filed to appropriate the public
waters of the State of Idaho:

63-10788 ✓

ROGERS BROTHERS SEED CO.
P.O. Box 4727
BOISE, ID 83711-0727
Source: GROUNDWATER
Diversion Pt: SWSE Sec 24 T 04N
R 02W

Use: COMMERCIAL (.670 CFS)

Date Filed: April 12, 1989

APPROVED
SLOVIACZ, TAMARA
SOMMER, TIM
11741 BULLOCK LN.
MIDDLETON, ID 83644
Source: GROUNDWATER
Diversion Pt: LOT 3 (NWNWSW)
Sec 19 T 05N R 02W

Use: IRRIGATION (.200 CFS)

COMMERCIAL (.200 CFS)

Date Filed: April 12, 1989

In: T05N R02W S19 Lot 3 (NWSW)
10.0 ACRES TOTAL

63-10791

LAKEY, LENA C.
c/o LAKEY'S TRAILER CT.
CALDWELL, ID 83605
Source: GROUNDWATER
Diversion Pt: SWSESE Sec 24 T
04N R 03W

Use: IRRIGATION (.030 CFS)

COMMERCIAL (.100 CFS)

DOMESTIC (.100 CFS)

Date Filed: April 21, 1989

In: T04N R03W S24 SESE

1.0 ACRES TOTAL

The permits will be subject to all
prior water rights. Protests must
be filed with the Director, Dept. of
Water Resources, Western Region,
2735 Airport Way, Boise, Idaho
83705 on or before JUNE 5, 1989.

R. KEITH HIGGINSON

Director

May 17, 1989

Debra Martin del Campo

of Nampa, Canyon County, Idaho, being first duly sworn, deposes
and says:

1. That I am a citizen of the United States of America, and at all
times hereinafter mentioned was over the age of eighteen years,
and not a party to the above entitled action.

2. That I am the Principal Clerk of the Idaho Press-Tribune, a
daily, (except Saturday) newspaper published in the City of
Nampa and Caldwell, in the County of Canyon, State of Idaho;
that the said newspaper is in general circulation in the said
County of Canyon, and in the vicinity of Nampa and Caldwell, and
has been uninterruptedly published in said County during a period
of seventy-eight consecutive weeks prior to the first publication of
the notice, a copy of which is hereto attached.

3. That the notice, of which the annexed is a printed copy, was
published in said newspaper

Two times

—in the regular and entire issue of said paper, and was printed in
the newspaper proper, and not in a supplement.

4. That said notice was published the following dates:

May 17, 24, 1989

Debra Martin del Campo

STATE OF IDAHO)

COUNTY OF CANYON)

On this 24th day of May in the
year of 1989, before me, a Notary Public, personally
appeared Debra Martin del Campo, known
or identified to me to be the person whose name subscribed to the
within instrument, and being by me first duly sworn, declared
that the statements therein are true, and acknowledged to me that
he/she executed the same.

Jeanne Lee
Notary Public for Idaho
Residing at Nampa

MY COMMISSION EXPIRES
JULY 12th, 1991



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

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

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

October 14, 1992

ROGERS BROTHERS SEED CO
PO BOX 4727
BOISE ID 837110727

RE: WATER RIGHT NO. 63-10788

Dear Water Right Holder(s):

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

Sincerely,

PAMELA SKAGGS
Water Resource Agent

PS:cz

Enclosure

OCT 27 1992

Telecon

09-01-92

w/ Jim Berry

Rogers/NK Seed Co.

6338 HWY 20-26

Nampa ID 83687

Requested Info RE: Volume Calculations

+ general questions.

Also - need Assignment Co. has

merged + has new name.

Mailed Info + Assignment 09-01-92

Hold an Additional 15 days for response.

CALL-UP 09-25-92

Should
be on
Assignment

{ New - PO Box 4188

83711-4188

PROCESSED

OCT 27 1992

August 27, 1992

ROGERS BROTHERS SEED CO
PO BOX 4727
BOISE ID 837110727

RE: WATER RIGHT NO. 63-10788

Dear Water Right Holder(s):

Enclosed is a draft copy of the license proposed to be issued on the above referenced water right.

This right is currently being reviewed by this office for licensing. The enclosed preliminary copy is subject to change upon further administrative review.

We ask that you review the proposed license and if you do not concur with the information, please let us know within 10 days.

Sincerely,

PAMELA SKAGGS
Water Resource Agent

PS:cz

Enclosure

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LICENSE REVIEW CHECKLIST

Permit # 63-10788

Date 8-26-92
GB

	<u>Yes</u>	<u>No</u>	
NAME	<u> </u>	<u>✓</u>	Address Change?
PRIORITY DATE	<u> </u>	<u>✓</u>	Advance? <u> </u>
	<u> </u>	<u>✓</u>	Memo to Advance <u> </u>
	<u> </u>	<u>✓</u>	Order to Reinstate Needed? <u> </u>
TOTAL CFS	<u> </u>	<u>✓</u>	Incorrect Fee for rate recommended?
	<u>NA</u>	<u> </u>	Disagree with Actual Measurement?
	<u> </u>	<u> </u>	<u>50 gpm (regulator) = .11 cfs (COMM)</u>
	<u>NA</u>	<u> </u>	Disagree with Theoretical? <u>5 x 8.8 x .7 = .16 (estimate)</u>
	<u> </u>	<u>✓</u>	Limited by Capacity? <u>.13 cfs 60' + (2.31 x 55)</u> <u>pump curve</u>
TOTAL VOLUME			Rate/ac <u> </u> AFA Irr. Season <u> </u>
			<u> </u> Standard Irr. Season
			<u> </u> Season Recommended
	<u> </u>	<u>✓</u>	Disagree with Examiner's Calculations?
	<u> </u>	<u>✓</u>	<u>20.0 cfs (COMM)</u>
	<u> </u>	<u>✓</u>	Limited by Flow? <u>.11 x 365 x 1.9835 = 79.6 > 20</u>
SOURCE	<u> </u>	<u>✓</u>	Changes? Clarification of <u>Originally</u>
	<u> </u>	<u>✓</u>	<u>Intended</u> source
	<u> </u>	<u>✓</u>	Notice of Intent to Void.
P/D	<u> </u>	<u>✓</u>	Verify with Map
	<u> </u>	<u>✓</u>	Amendment Needed? <u> </u>
	<u> </u>	<u>✓</u>	Is Overlap Analysis a Consideration?
P/U	<u> </u>	<u>✓</u>	Verify with Map
	<u> </u>	<u>✓</u>	Amendment Needed? <u> </u>
	<u> </u>	<u>✓</u>	Is Overlap Analysis a Consideration?
USES	<u> </u>	<u>✓</u>	Change(s) in Nature of Use? <u> </u>
	<u> </u>	<u>✓</u>	Amendment Needed? <u> </u>
REMARKS	<u> </u>	<u>✓</u>	Multiple P/Ds in 1/4 1/4? <u> </u>
	<u>✓</u>	<u> </u>	Non-Irr. Uses <u>COMM/Research Center</u>
	<u> </u>	<u>✓</u>	Special Overlap Condition <u> </u>
	<u> </u>	<u>✓</u>	Other <u> </u>
CONDITIONS	<u> </u>	<u>✓</u>	<u>Regulator</u>
	<u> </u>	<u>✓</u>	Measuring Device
	<u> </u>	<u>✓</u>	W/Master Control
	<u> </u>	<u>✓</u>	Overlap
	<u>✓</u>	<u> </u>	Water Quality
	<u>Permit</u>	<u> </u>	DATES/MISC
	<u> </u>	<u>✓</u>	Water Dist.
	<u> </u>	<u>✓</u>	App Rec'd
	<u> </u>	<u>✓</u>	Exam Made
COMMENTS/MEMOS	<u>Permit</u>	<u>NEEDED:</u>	<u>Reduced Rate</u>
			<u>Used FE estimates used on pump curve/HP eqn.</u>
			<u>Rate never > 50 gpm per FE (regulator)</u>
License	<u> </u>	<u>10-Day</u>	<u>✓</u> <u>15-Day</u> <u> </u> <u>Special Correspondence</u> <u> </u>

WR0749NP
No. L63-10788

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT
(REGIONAL)

DATE: 08/26/92
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	ROGERS BROTHERS SEED CO PO BOX 4727 BOISE ID 837110727 (208) 466-0319	05/01/1989	COMMERCIAL	01-01 12-31	0.11 CFS	20.0 AFA
TOTAL DIVERSION:					0.11 CFS	20.0 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: LICENSE

Point(s) of Diversion Capacity: 0.13 CFS

Point(s) of Diversion: T04N R02W S24 SW SE

Place of use Legal Description for: COMMERCIAL

				NE				NW				SW				SE								
T	R	S	:	NENE	NWNE	SWNE	SENE	:	NENW	NWNW	SWNW	SESW	:	NESW	NWSW	SWSW	SESW	:	NESE	NWSE	SWSE	SESE	:	
				Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:	Lt	Ac	Lt	Ac	:	Lt	Ac	Lt	Ac	:
04N	02W	24	:					:					:					:					:	

Pou County: CANYON

Other Water Rights Listing Overlapping Place(s) of use:
63-10584

Conditions of Approval:

- 09E - Water used under this right if discharged into a natural
- channel or subsurface system shall meet Idaho Water Quality
- Standards.

Remarks: Commercial use is for a research center.

Dates: App. Received: 05/01/1989 Priority Date: 05/01/1989
Proof Due Date: 08/01/1990 Proof Made Date: 02/12/1990
Exam Made Date: 09/12/1991 Exam Sent to S.O.: 04/10/1992
Licensed Date:

Misc: Water District Number: Field Exam Fee: R (Received)

Audit: 08/26/92 SKAGGS

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
APR 15 1992

Department of Water Resources

A. GENERAL INFORMATION

1. Owner: Rogers Bros. Seed Co. Permit No. 63-10788
Current Address: P.O. Box 4727, Boise, Id. Phone No. 466-0319
83711
2. Accompanied by: Died Schreffler EXAM. DATE: 9-12-91
Address: 6388 Hwy 20-26, Nampa, Id. Phone No. same
Relationship to Permit Holder: Services Manager
3. Source: groundwater tributary to none

B. OVERLAP REVIEW

1. Other water rights with same place of use: 63-10584 ☒ Copies Attached
2. Other water rights with same point of diversion: 63-10583, 63-10584 ☒ 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

See attached

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Scale: 1" = see attached

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).

System Description (continued)

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

See attached

☐ 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
	<i>Unknown</i>	<i>5</i>	<i>Unknown</i>	<i>Sta-Rite</i>	<i>2" Series 40</i>

*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
			<i>SW</i>	<i>SE</i>	<i>24</i>	<i>4N</i>	<i>2W</i>	<i>Canyon</i>	<i>Ortho photo quad map</i>

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	
<i>4N</i>	<i>2W</i>	<i>24</i>															<i>C</i>		

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Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
<i>None</i>						

2. Measurements:

None - No measurement taken due to flow regulated by flow regulator at 50 gpm.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

58 gpm per pump curve = .13 cfs.

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:

~~###~~ *See attached for lawn area which is considered the same as domestic lawn.*

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

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

2. Volume Calculations for Other Uses:

See attached

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H. REMARKS AND OVERLAP REVIEW ANALYSIS

63-10583 & 63-10584 are license for irrigation of the test fields adjacent to the P14 for this permit. They are from a separate groundwater source and have no effect on this permit.

Recommended diversion rate of .13 cfs is based on pump curve. An actual measurement would ~~have~~ be limited to 50 gpm or .11 cfs because the system contains the flow regulator.

Note: per Sharla C., OK to include Small lawn watering in Commercial (business) uses. Volume reflects lawn requirements. (See attachments)

gjt 3/9/92

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Commercial	1-1	12-31	.13 cfs	19.4 afa 20.0
				20.0
Totals:			.13 cfs	19.4 afa

2. Recommended Amendments

☐ Change P.D. as reflected above

☐ Add P.D. as reflected above

☒ None

☐ Change P.U. as reflected above

☐ Add P.U. as reflected above

☐ Other

J. AUTHENTICATION

Field Examiner's Name

Melvin T. Schulte

Signature

Melvin T. Schulte

Certification Date

gjt 3/9/92

Field Report Preparation Date

2-19-92



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

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63-10788 VOLUME CALCULATIONS

SEEDLING IRRIGATION:

1200 growing pots x 2 = plus 1,440 x 4 = 8,160 total
8,160 x 1/4 gpd x 270 days = 550,800 gpy

CHEMICAL SPRAYING:

60 acres x 8 sprayings x 20 gal per acre = 9,660

TRUCK WASHING:

15 x 6 per year x 35 gallons = 3,150

STEAM CLEANER:

4 gpm x 1 hr week (60) x 52 = 12,480

OFFICE BUILDING FIXTURES:

*44 x 1 gpm x 60 x 40 hrs per week x 52 = 5,491,200
**4 x 1 gpm x 60 x 40 hrs per week x 18 = 172,800

*Emergency eye washes and showers not included
**Processing room fixtures used 4 months per year

CANNER:

300 gallons to cool each cycle x 1.5 cycles per day
x 6 days x 4 months per year = 43,200

COOLING PADS:

7 gpd x 8 each x 240 days per year = 13,440

GROWTH CHAMBER:

1.5 gpm x 3 min. per hour x 24 hrs day x 300 days = 32,400
6,329,130 gpy =

Add lawn area of less than one-half acre 19.4 afa
TOTAL .6 afa
20.0 afa

NOTE: The data used in the volume calculations were obtained from the owner's service manager, Fred Schreffler, or from Exhibit 14 of the Field Examiners Handbook.

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63-10788 NARRATIVE

An 8" diameter well with a 5 Hp submersible pump discharges water through a 2" discharge pipe to a 2" buried pipe. The buried pipe delivers water to three pressure tanks located in an office/research building about 100' from the well. The pipe also provides water to four greenhouses adjacent to the office/research building. It then continues North about 200' and branches off several times to service two more greenhouses, a chemical building, shop and a processing building. The complete facility consists of the office/research building, four 50' X 70' greenhouses each containing two 5' X 20' evaporative cooling pads, two 50' X 100' late Spring greenhouses, a shop building, a storage building and a processing building that contains a boiler and a canner.

The well is equiped with a Dole Fow Regulator in the discharge pipe. The regulator is designed to deliver a constant volume of water at various pressures but never in excess of 50 gpm.

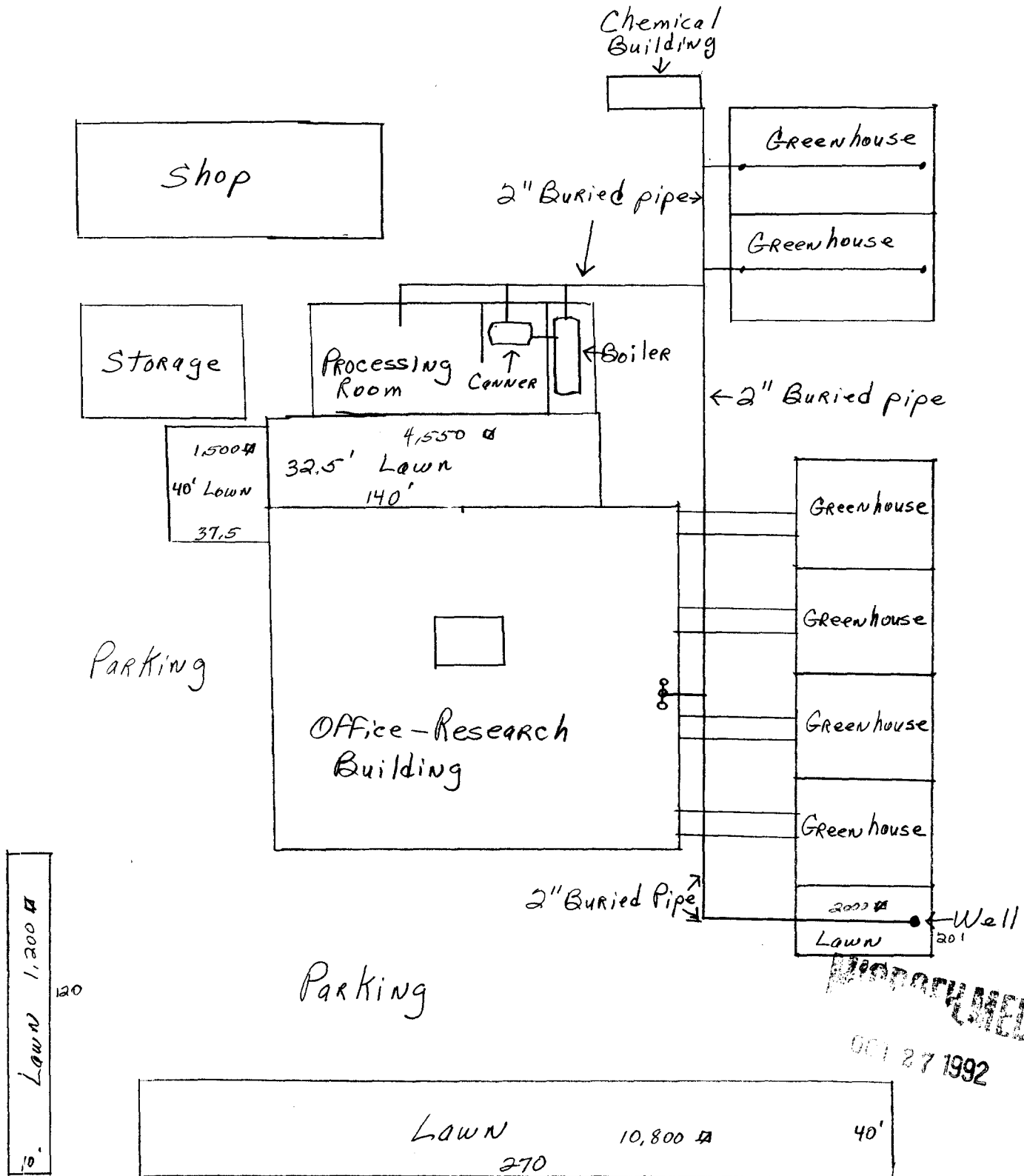
The office/research building has an area called a "headhouse" that contains a growth chamber for hybrid seeds used in researching new varieties. The processing building has a boiler in a separate room and a canner in an adjacent room to the boiler. The canner is used to test the canning characteristics of new seed varities.

Irrigation water in the green houses is applied from garden hoses to one and a half gallon growing pots. Water from this system is also used for sprinkling about a quarter acre of lawn and for chemical spraying on about 60 acres of test crops. Irrigation for the test fields is from a separate ground water source. The fixtures and hydrants for the facility consist of the following:

1. Lunch room with one sink	1
2. Head house room with six sinks	6
3. Men's room with five fixtures & one shower	6
4. Women's room with four fixtures & one shower	5
5. Two drinking fountains in hallways	2
6. Two public restrooms with two fixtures each	4
7. Laboratory with seven sinks and a dishwasher	8
8. Four eye washes and three emergency showers	7
9. Eight work rooms with nine sinks total	9
10. Shop restroom with two fixtures & one sink	3
11. A processing room with one sink & three hydrants	4
12. Two Spring greenhouses with two hydrants each	4
13. Four research greenhouses with two hydrants each	<u>8</u>
TOTAL	67

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63-10788 System Diagram



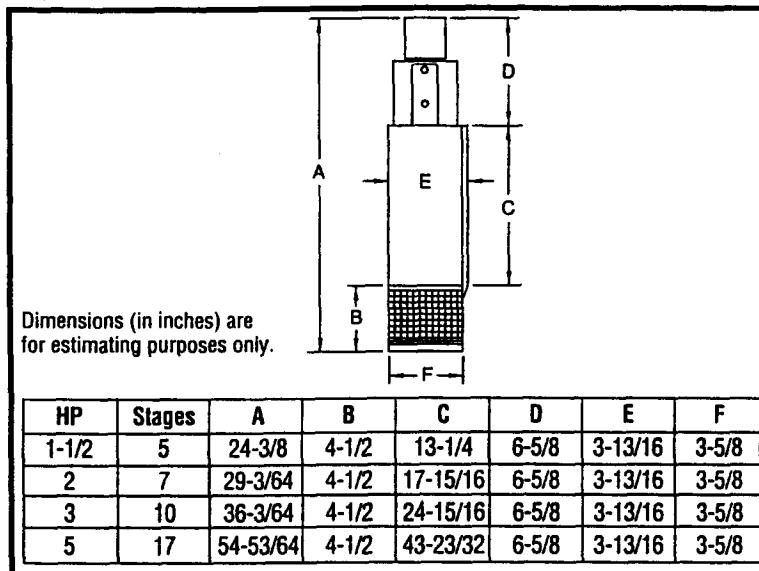
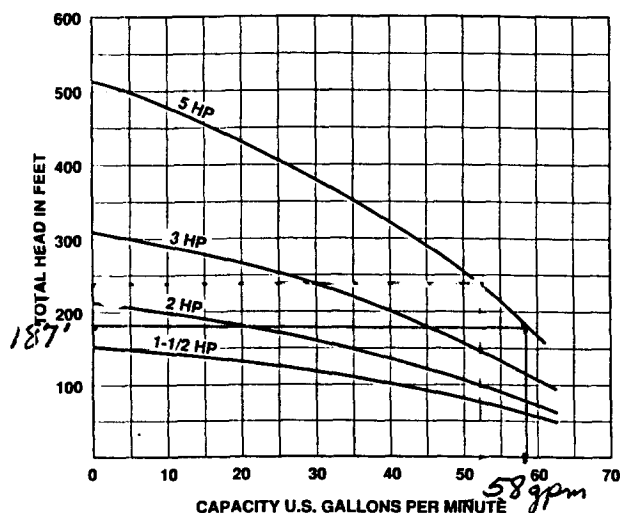
4" Submersible Pumps

40 GPM

Design Series

63-10788

Pump Performance



Pump Performance

$$2.3 \times 55 = 127$$

$$\text{lift} = \frac{60}{187} = \text{TPH}$$

HP	Series	PSI	Pumping Depth in Feet																
			20'	40'	60'	80'	100'	125'	150'	175'	200'	250'	300'	350'	400'	450'	500'	550'	600'
			Capacity — Gallons Per Minute																
1-1/2	40	0	—	—	59.3	50.8	40.0	24.0	4.4										
		30	46.6	35.5	22.0	9.1													
		40	33.1	18.8	1.5														
		50	16.0																
		60																	
2	40	0	—	—	63.1	58.5	52.8	46.0	33.1	21.5	8.0								
		30	56.4	50.0	42.4	34.0	24.8	11.5											
		40	48.8	40.8	32.0	22.8	12.4												
		50	40.0	31.1	21.5	10.8													
		60	29.5	20.0	9.1														
3	40	0	—	—	—	—	61.0	56.4	51.4	45.5	38.4	23.0	4.0						
		30	63.0	59.5	60.0	51.8	47.1	40.4	32.8	23.5	16.4								
		40	58.8	55.0	50.8	46.4	40.4	33.1	25.4	17.1	7.1								
		50	54.4	50.4	45.5	39.5	33.0	25.0	17.0	8.0									
		60	49.5	46.8	38.8	32.8	26.8	18.4	9.0										
5	40	0	—	—	—	—	—	—	—	59.1	64.7	50.6	43.7	35.3	26.1	16.0	4.2		
		30	—	—	—	—	59.7	57.0	54.3	51.2	48.1	40.5	32.0	22.3	12.0				
		40	—	—	—	59.2	57.2	54.5	51.7	48.3	44.9	36.9	27.9	17.9	6.9				
		50	—	—	59.0	56.9	54.9	51.8	48.5	45.0	41.0	33.0	33.2	13.0					
		60	60.7	58.7	56.5	54.3	51.9	48.6	45.3	41.3	37.1	21.6	18.1	7.3					

CAUTION: DO NOT use pump at flow rates indicated by the symbol —. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a CON-AIRE® tank require a 100# relief valve. Pumps installed with a conventional tank require a 75# relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Central Park

PERMIT 63-10788 INIT

T. R. S. Q/Q

P/D 4W 2W 24 SWSE

SCALE

PHOTO ID. X6

Phyllis

P/D
P/U

27 1992

ELM

Department of Water Resources

WELL INSPECTION FORM

If well is associated with water right, provide WR# 63-10788

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

1. Legal Description: TWP 4N, Rge 2W, Sec. 24, SW 1/4 SE 1/4
or Lot _____.
2. Owner: Rogers Bros.
Address Hwy 20-26 , City ampa, St. Id.
3. Casing $\geq$ 12 inches above ground: Yes ✓ No _____
4. Access Port: Yes _____ No ✓ Static Water Level: 27'
Pressure Gauge: Yes ✓ No _____ Casing Diameter: 8"
Flowing: Yes _____ No ✓ Temperature: _____
5. Are there any obvious construction problems that may be a
source for contamination or waste of water: Yes _____ No ✓

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

Remarks: _____

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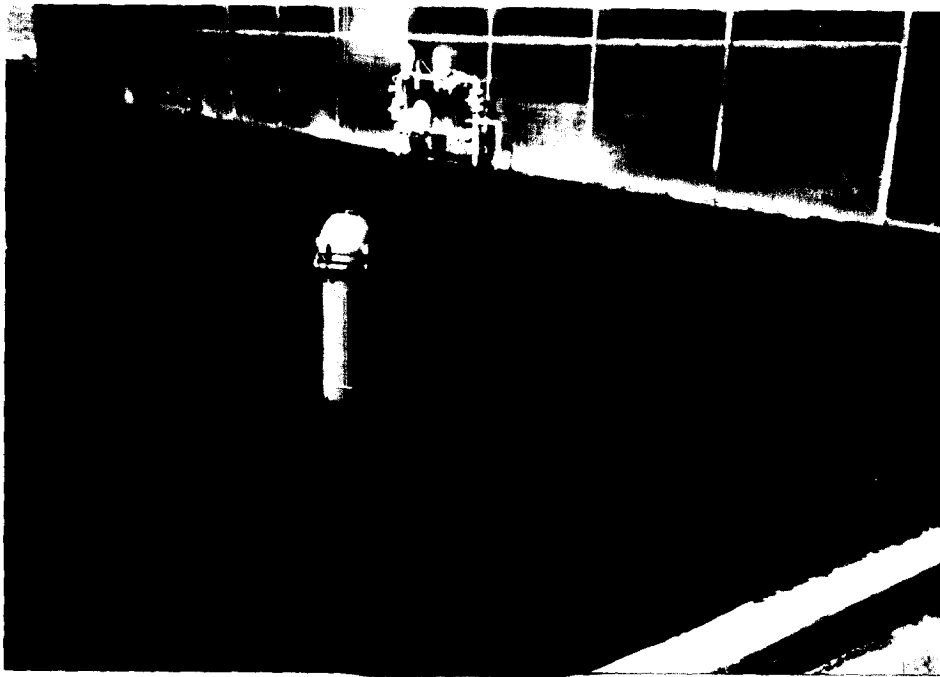
WELL DRILLER REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

63-10788



#1

P/D

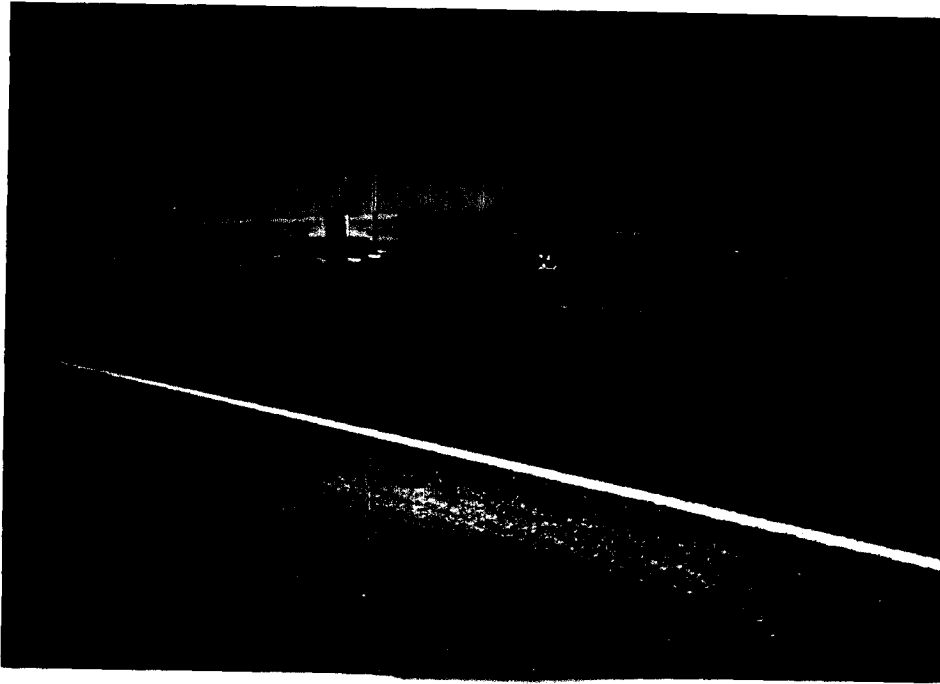


#2

P/U - offices
for research
center

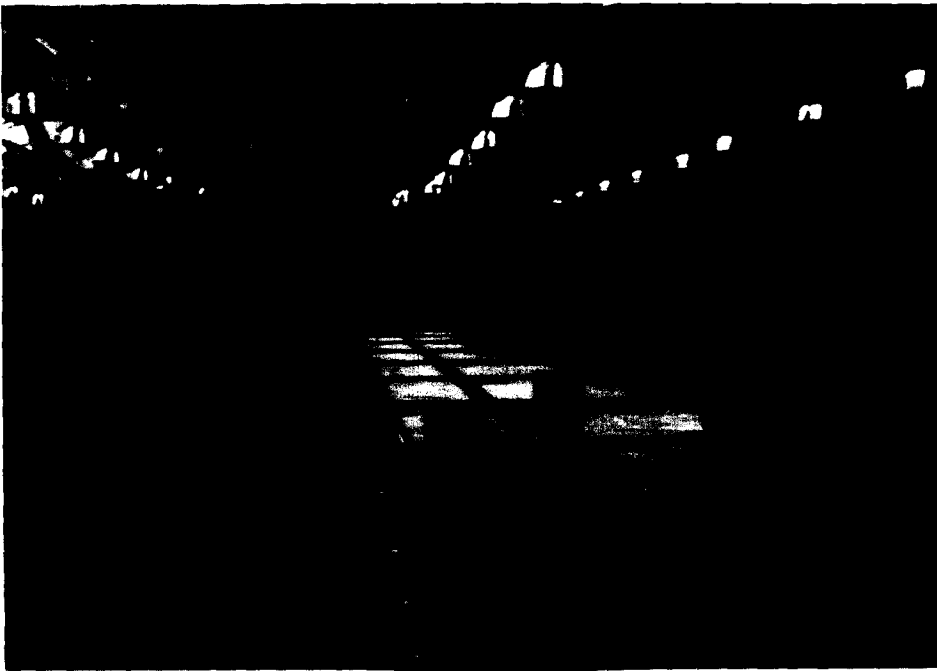
RECEIVED
OCT 27 1992

63-10788



#3

View of office
and greenhouses
looking Northwest
across Hwy 20-26



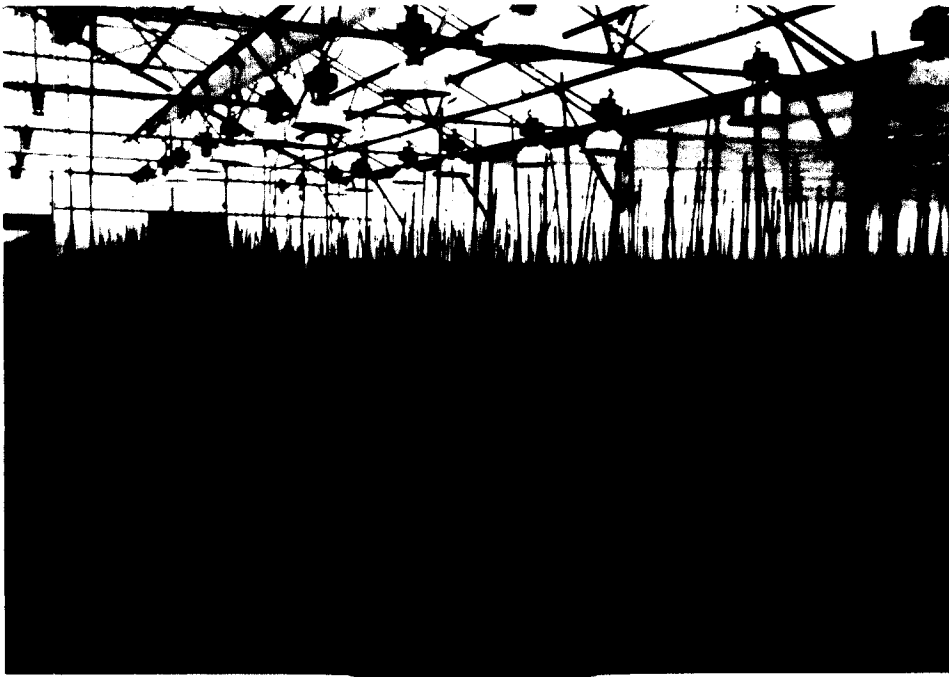
#4.

View of the interior
of one of four
research greenhouses.
The cooling pads are
at the rear of the
greenhouse and
the method of
irrigating is the
garden hose in the
middle of the building

RECEIVED

OCT 7 1992

63-10788



#5-

View of the
interior of one
research greenhouse
containing bean
seedlings



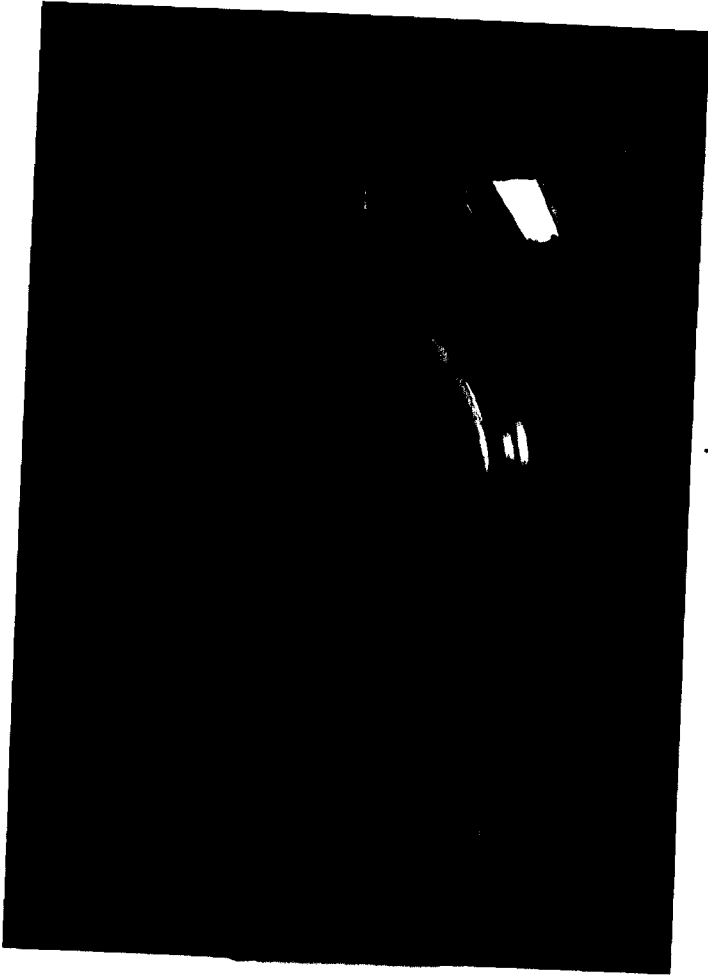
#6.

View of the two
Spring greenhouses
and chemical
building.

REPRODUCED

OCT 27 1992

63-10788



#7

The boiler that provides hot water to the canner that is located in an adjacent room to the boiler room.



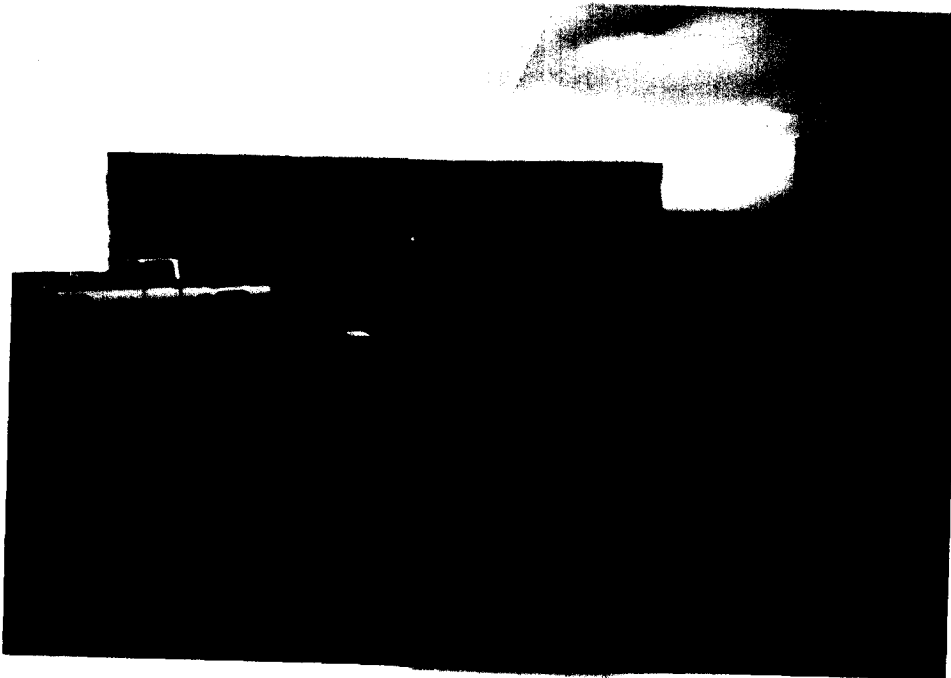
#8.

The shop building

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OCT 27 1992

63-10788



#9.

The storage
building



#10

View of the shop,
storage and
office/research
building looking
Northeast from
Hwy 20/26.

RECEIVED

OCT 27 1992

April 18, 1990

ROGERS BROTHERS SEED CO.
P.O. BOX 4727
BOISE, ID 837110727

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 63-10788

Dear Permit Holder:

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

If you have questions concerning this matter, please feel free to contact the WESTERN Regional Office in Boise at (208)334-2190.

Sincerely,

Rita Fleck
Secretary/Records Manager

c: IDWR - Region

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APR 19 1990

1/88

PROOF OF BENEFICIAL USE

ANALYSIS SHEET

Permit No. 63-10788

Date: 4-16-90

General Considerations:

y Name same as permit
y Signature the same as permit holder
N Address change _____ If yes, prepare a data entry
y Proof received timely
_____ Reinstated

Source of Water:

y Surface water
y Groundwater
_____ 1. well log in file
y 2. drilling permit
y A. amount of drilling fee paid for proposed uses

Extent of Use and Rate of Diversion:

y Rate of diversion appropriate for uses
y Is rate or volume and fee appropriate?
y Has permit holder indicated when water was first put to a beneficial use?

Measuring Device:

_____ Is a measuring device or access port required?
y Has one been installed?
_____ Waiver or modification of measuring device requested

Remarks:

Proof acceptable

N/A Priority Calculation:
Date proof received _____
Date proof due _____
No. of days late _____
Priority date _____
NEW PRIORITY DATE _____

SEND FILES TO DATA ENTRY AND THEN TO MICROFILM

RECEIVED
FEB 12 1990

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

For Office Use Only
Fee Received 100.00
Date 2/12/90
Receipt # CD14563
Receipt by C. Wright
Reviewed by [Signature]
Sent to region [Signature]

Department of Water Resources

PROOF OF BENEFICIAL USE

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

Permit No. 63-10788

Name(s) of Permit Holder: ROGERS BROTHERS SEED COMPANY

Post Office Address: P.O. BOX 4727, BOISE, IDAHO 83711-0727

Telephone No. (208) 322-7272

Source of Water: WELL

Extent of Use:

Domestic _____ (number of households) Stockwater _____ (number and type of stock)

Irrigation _____ (acres) Other/Remark COMMERCIAL - RESEARCH CENTER

Total rate and/or volume for which proof is submitted 0.67 cfs _____ acre-feet

Show the date water was first diverted and beneficially used under this permit: 1/2/90

Measuring Device: Required? ☐ Yes ☐ No
Installed? ☐ Yes ☐ No) Fee enclosed \$ 100.00
(See License Examination Fee Schedule)

Flow Measurement Port: Required? ☐ Yes ☐ No
Installed? ☐ Yes ☐ No) SEE ATTACHED LETTER
Sole Slow Regulator

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

MICHAEL PAULY (208) 466-0319

(Name) (Telephone Number)

6338 HWY. 20-26, NAMPA, IDAHO 83687

(Address)

MICROFILMED

The above information is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the state of Idaho.

APR 19 1990

ROGERS BROTHERS SEED COMPANY

Rogers Brothers Seed Company

2/9/90

by: Leon A. Hansen, V P - Research

Date

Signature of Permit Holder (and title, if appropriate)



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

February 20, 1990

Rogers Brothers Seed Co.
ATTN: Leon A. Hansen
P.O. Box 4188
Boise, ID 83711-4188

RE: Permit to Appropriate Water No. 63-10788

Dear Mr. Hansen:

You wrote me a letter on October 24, 1989, and asked some questions about the installation of a measuring device and proof of beneficial use. The file contains a hand written notation that Kelly Christensen of our Western Regional office would contact you. This letter is an inquiry to determine whether your questions have been answered.

If they have not, please contact me or Kelly Christensen. We will attempt to resolve your questions.

Sincerely,

A handwritten signature in cursive script that reads "Gary Spackman".

GARY SPACKMAN, Manager
Water Right Permits Section

GS:js

cc. Kelly Christensen

MICROFILMED

APR 19 1990

Attention: Kelly
via telephone

Chuck Davis —
Davis Well Drilling

Department of Water
Resources for

Water Right of

MICROFILMED
Davis Well Drilling.

APR 19 1990



ROGERS BROTHERS SEED COMPANY

October 24, 1989

RECEIVED
OCT 26 1989

Mr. Gary Spackman
STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Statehouse
Boise, Idaho 83720

Department of Water Resources

Dear Mr. Spackman:

Thank you for your letter of July 25, 1989 concerning the "approved application for permit" for Permit No. 63-10788.

Our Drilling Permit number is 63-89-W-068 and was approved on May 1, 1989. The well was drilled by Davis Well and Pump Company (415 No. Pitt Lane, Nampa, ID. 83651, Phone: 466-5765) on May 15-17, 1989.

Paragraph Four of your letter refers to the necessity for installing a measuring device or flow measurement port. Upon receiving your letter, I forwarded a copy to Chuck Davis of Davis Well and Pump Company to ensure we would meet this requirement. Mr. Davis informed me by telephone that it would not be possible to install a flow measurement port in a 6 inch pipe. I asked him to contact your office to determine what we must do to meet the measurement requirement.

Mr. Davis contacted Kelly (last name not noted) of your office and discussed this issue. Apparently they agreed that installation of a "Dole Flow Regulator" would meet the requirement. This has been installed and apparently regulates the flow of the well to 50 GPM. A copy of the product information sheets concerning the Dole Flow Regulator is enclosed.

Please review this information and let me know if we have properly satisfied the requirements.

The well has been drilled at the site of the Research Center under construction and will be used to provide water for the facility and to irrigate the landscaping. The well is operational but the plumbing inside the facility has not been completed. First occupancy is planned for January 1990.

MICROFILMED

APR 19 1990

Mr. Gary Spackman
October 24
Page 2

Please advise the correct time to file the "proof of beneficial Use" form and have the well inspected.

Your assistance with this project is appreciated.

Sincerely,

Leon A. Hansen

Leon A. Hansen
Vice President,
Research

Enclosure

dlc

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APR 19 1990

R
ROGERS

Product Information

EAT•N

RECEIVED OCT 12 1989

Dole® Flow Regulators

For
Energy
Conservation
and
Water
Management

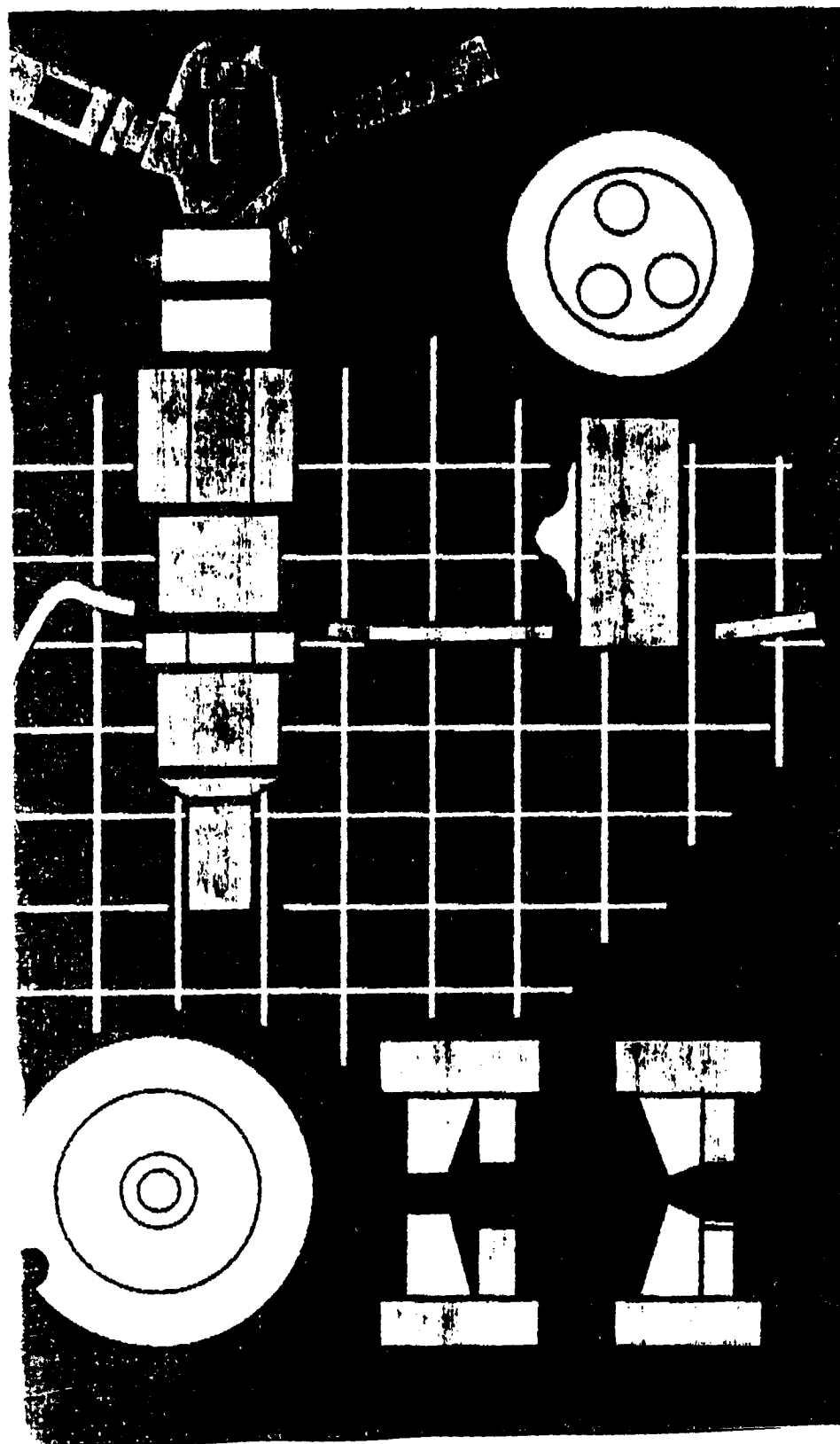
MICROFILMED

APR 10 1990

Dole®
ENERGY CONTROLS



15 VALVES



Dole® Flow Regulators for Industrial Applications

Cooling Tower Bleeds • Tankless Heaters • Irrigation Sprinklers • Condensers • Cooling Jackets
Pumps • Water Softeners • Water Filters, etc.

MODEL	FLOW G.P.M.	INLET CONN. Nickel Plated	OUTLET CONN.
1/4G	.125	1/4" F NPT	1/4" F NPT
1/2G	.25	1/4" F NPT	1/4" F NPT
3/4G	.50	1/4" F NPT	1/4" F NPT
1G	.75	1/4" F NPT	1/4" F NPT
1G	1.00	1/4" F NPT	1/4" F NPT

1 1/4G	1.5	1/4" F NPT	1/4" F NPT
2G	2.0	1/4" F NPT	1/4" F NPT
2 1/2G	2.5	1/4" F NPT	1/4" F NPT
3G	3.0	1/4" F NPT	1/4" F NPT
3 1/2G	3.5	1/4" F NPT	1/4" F NPT
4G	4.0	1/4" F NPT	1/4" F NPT

5G	5.0	1/4" F NPT	1/4" F NPT
6G	6.0	1/4" F NPT	1/4" F NPT
7G	7.0	1/4" F NPT	1/4" F NPT
8G	8.0	1/4" F NPT	1/4" F NPT
9G	9.0	1/4" F NPT	1/4" F NPT
10G	10.0	1/4" F NPT	1/4" F NPT

MODEL	FLOW G.P.M.	INLET CONN. Nickel Plated	OUTLET CONN.
2GX	2.0	1" F NPT	1" F NPT
2 1/2GX	2.5	1" F NPT	1" F NPT
3GX	3.0	1" F NPT	1" F NPT
3 1/2GX	3.5	1" F NPT	1" F NPT
4GX	4.0	1" F NPT	1" F NPT
4 1/2GX	4.5	1" F NPT	1" F NPT
5GX	5.0	1" F NPT	1" F NPT
6GX	6.0	1" F NPT	1" F NPT
7GX	7.0	1" F NPT	1" F NPT
8GX	8.0	1" F NPT	1" F NPT
9GX	9.0	1" F NPT	1" F NPT
10GX	10.0	1" F NPT	1" F NPT
12GX	12.0	1" F NPT	1" F NPT
15GX	15.0	1" F NPT	1" F NPT
20GX	20.0	1" F NPT	1" F NPT
25GX	25.0	1" F NPT	1" F NPT
30GX	30.0	1" F NPT	1" F NPT

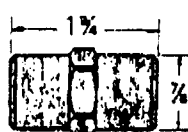
MODEL	FLOW G.P.M.	INLET CONN. Zinc Plated	OUTLET CONN.
35GH	35.0	2 1/2" M NPT	2 1/2" M NPT
40GH	40.0	2 1/2" M NPT	2 1/2" M NPT
45GH	45.0	2 1/2" M NPT	2 1/2" M NPT
50GH	50.0	2 1/2" M NPT	2 1/2" M NPT
55GH	55.0	2 1/2" M NPT	2 1/2" M NPT
60GH	60.0	2 1/2" M NPT	2 1/2" M NPT
70GH	70.0	2 1/2" M NPT	2 1/2" M NPT
80GH	80.0	2 1/2" M NPT	2 1/2" M NPT
90GH	90.0	2 1/2" M NPT	2 1/2" M NPT

NOTE: We do not recommend using the "G" series flow regulators in conjunction with plumbing fixtures.

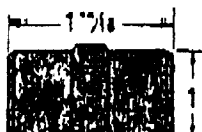
*Use of strainer ahead of the 1/4 G Flow Regulator is recommended.

Physical Dimensions

Basic "G" Series (see above chart for data)



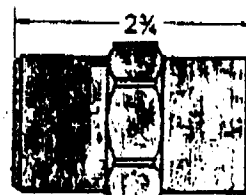
1/4G-1/2G-3/4G
3 oz. each



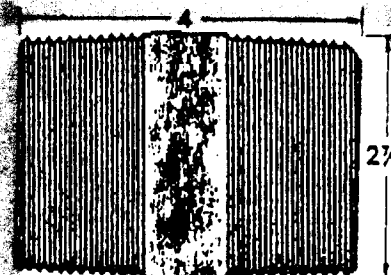
1 1/4G-2G-2 1/2G-3G-3 1/2G-4G
3 1/2 oz. each



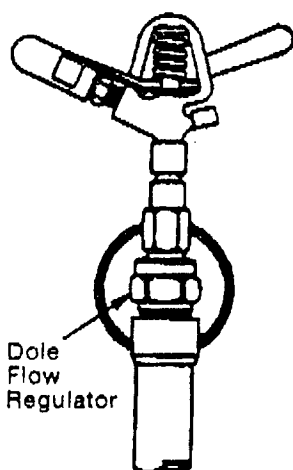
5G-6G-7G-8G-9G-10G
7 1/2 oz. each



2GX-2 1/2GX-3GX-3 1/2GX-4GX-4 1/2GX-5GX-6GX-7GX-8GX-9GX-10GX-12GX-15GX-20GX-25GX-30GX
12 oz. each

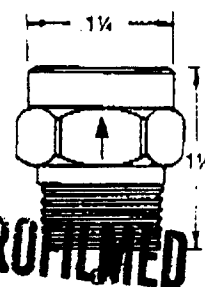


35GH-40GH-45GH-50GH-55GH-60GH-70GH-80GH-90GH
3 lbs. each



GY Series Flow Regulators For Irrigation

Brass Model	Flow Rate G.P.M.	Inlet Connection	Outlet Connection
2GY	2.0	1/4" M NPT	1/4" F NPT
2 1/2GY	2.5	1/4" M NPT	1/4" F NPT
3GY	3.0	1/4" M NPT	1/4" F NPT
3 1/2GY	3.5	1/4" M NPT	1/4" F NPT
4GY	4.0	1/4" M NPT	1/4" F NPT
5GY	5.0	1/4" M NPT	1/4" F NPT
6GY	6.0	1/4" M NPT	1/4" F NPT
7GY	7.0	1/4" M NPT	1/4" F NPT
8GY	8.0	1/4" M NPT	1/4" F NPT
9GY	9.0	1/4" M NPT	1/4" F NPT
10GY	10.0	1/4" M NPT	1/4" F NPT



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APR 19 1990

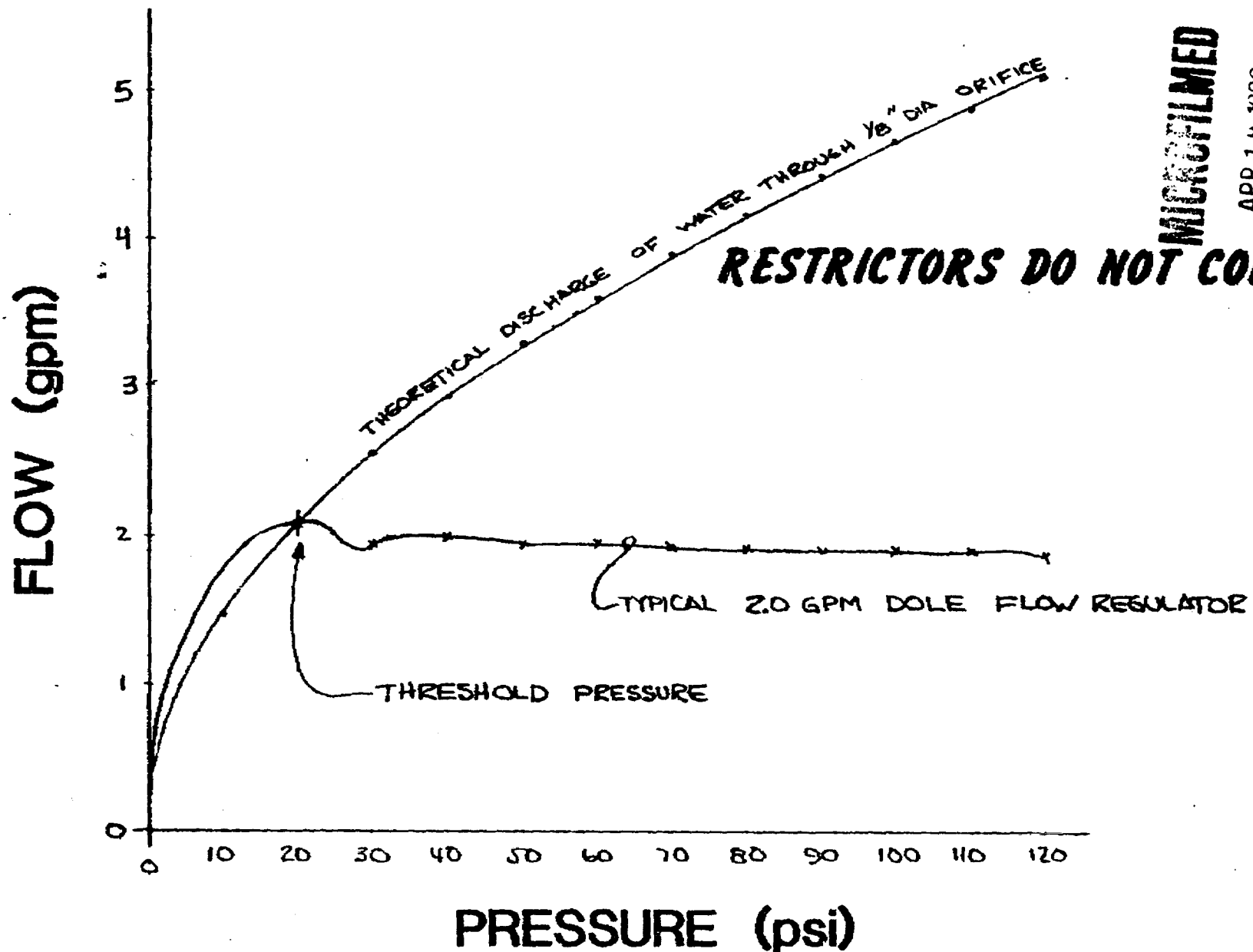
All fittings approximate net shipping weight 4oz. each in unfinished brass. Also available is a tough nylon version of the GY series at 1 1/4 oz. each. Information supplied upon request.

EATON Control Systems

Eaton Corporation
Control Systems
Energy Controls
191 East North Ave.
Carol Stream, Illinois 60187

FLOW COMPARISON

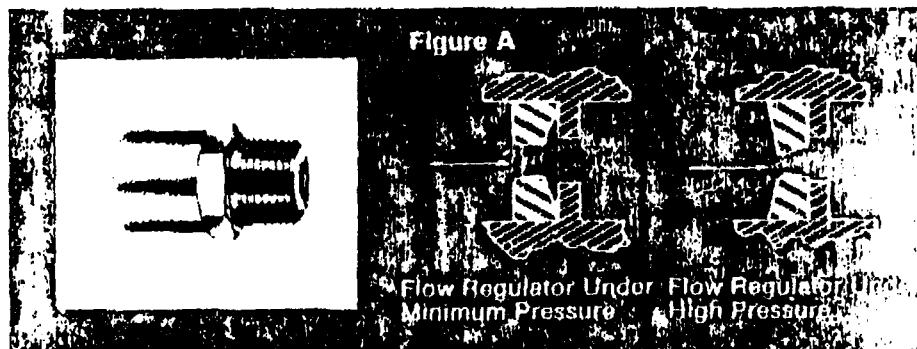
DOLE FLOW REGULATOR vs. A FLOW RESTRICTOR



MICROFILMED

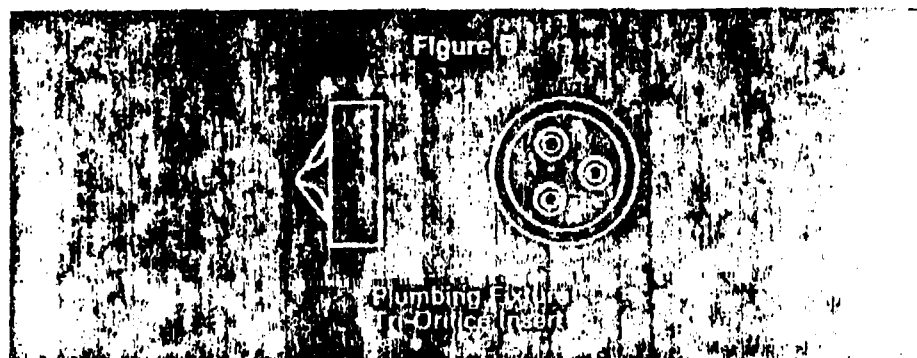
APR 19 1990

Dole® FLOW REGULATORS FOR ENERGY CONSERVATION AND WATER MANAGEMENT



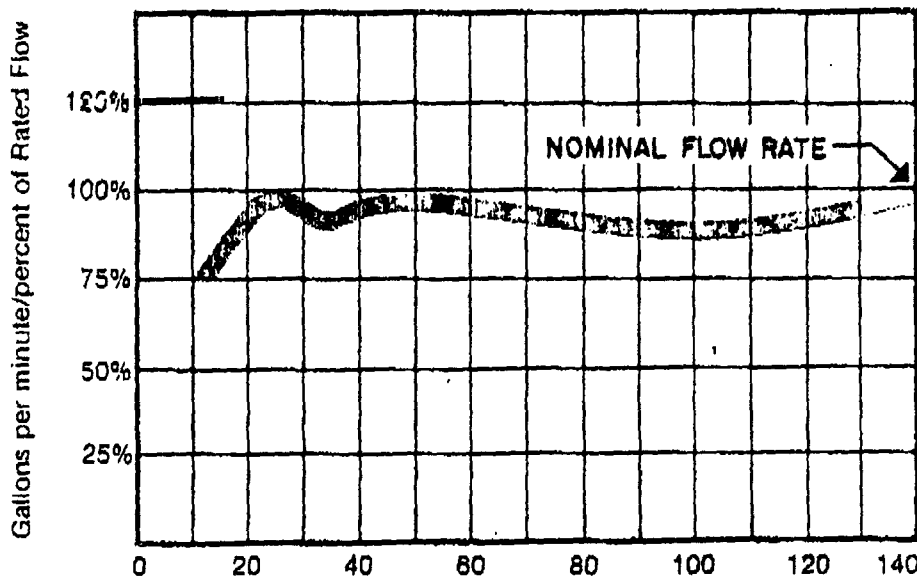
How Dole Flow Regulators Work

The Dole Flow Regulator is a simple, self-cleaning device designed to deliver a constant volume of water from any outlet whether the pressure drop is 20 psi or as high as 125 psi. The controlling mechanism consists of a flexible orifice that varies its area inversely with the pressure so that a constant flow rate is maintained. Figure A illustrates how a single orifice, for simplicity of explanation, changes shape to maintain a constant flow rate as the inlet pressure increases. As with any small orifice or restriction in a plumbing system, an audible sound may develop, depending on system design. Dole Tri-Orifice inserts are used wherever possible to minimize this phenomenon.



Control Accuracy

Until the inlet pressure reaches the threshold pressure, generally 20 psi, the flexible insert remains as a fixed orifice. After the threshold pressure is reached, the pressure drop will be whatever is necessary to absorb the energy not required to overcome the system resistance and to sustain a rated flow. The curve shown is typical of most regulators regardless of the rated flow. It is possible to approximate the flow of an individual regulator by using the line marked "Nominal Flow Rate" as the desired rate. Flow rates are accurate within plus or minus 15% of the nominal flow rate. Good accuracy is maintained to about 125 psi. The above figures represent pressure drop across the valve at a working temperature of 60°F.



NOT RECOMMENDED

APR 19 1990

3/89

Drilling Permit No. 63-89-W-068Water Permit No. 63-10788

Injection Permit No. _____

RECEIVED

MAY 04 1989

State of Idaho
Department of Water Resources**RECEIVED**

APR 28 1989

Department of Water Resources

DRILLING PERMITDepartment of Water Resources
Western Regional Office

1. Applicant Regus Bros Seed Co.
 2. Address P.O. Box 4727 Boise Idaho 83711-0727
 Telephone 322-7272

☒ Well Owner () Well Operator () Other, specify _____

3. Proposed well location SW 1/4 SE 1/4, or Gov't lot No. _____,
 Sec. 24, Twp. 4N, Rge. 2W, County Canyon,
 Lot, block and subdivision _____

4. Proposed use of well: (Check all that apply)
- | | | |
|---|--|----------------|
| () Domestic
No. of households _____ | () Stockwater
No. of livestock _____ | () Monitoring |
| () Irrigation | () Industrial | () Municipal |
| () Injection | (x) Other, Specify <u>Commercial</u> | |

5. Well construction information:

☒ New well () Deepen () Replace

Proposed surface diameter 8" Maximum depth 160'

Anticipated bottom hole temperature:

- ☒ 85°F or less (Cold water well)
 () 85°F to 212°F (Low temp. geothermal well)
 () 212°F or more (Geothermal well)

6. Anticipated construction start date May 1989
 7. Well Driller (if known) Chuck Davis

Address 415 N. Pitt Lane Tampa Idaho 83687

8. Applicant's signature Garrett Davis
 Title Owner of Davis Well Drilling
 Date 4-27-89

MICROFILMED

AUG 29 1989

ACTION OF DEPARTMENT OF WATER RESOURCES

This Permit is

Approved

If approved, this permit authorizes the construction of a well subject to the following conditions:

GENERAL CONDITIONS

1. The well must be constructed in compliance with the applicable statutes, specific conditions of approval shown on the water right permit, injection well permit, transfer or amendment and the rules and regulations of the Department for water appropriation, injection wells and well construction standards.
2. This drilling permit is valid for two (2) months from its date of issuance for the start of construction and is valid for one (1) year from the date of issuance for completion of the well unless an extension has been granted.
3. This permit does not constitute the approval of the District Health Department or the Idaho Department of Health and Welfare which may be required before construction of this well.
4. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
5. Issuance of this drilling permit does not authorize trespass on the land of another party.
6. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.
7. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
8. If a bottom hole temperature of 85°F or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.

SPECIFIC CONDITIONS

Dated this 1st day of May, 19 89.

Signed

David R. Tuttle

Title

Mgr, Western Regional Office

Received by

SL

Fee

\$100

Date

4/28/89

Receipt No.

W002633

Construction start extension to

AUG 29 1989

Extension approved by

REC'D

S T A T E O F 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

Statehouse
Boise, Idaho 83720
(208) 334-7900
July 25, 1989

ROGERS BROTHERS SEED CO.
P.O. BOX 4727
BOISE, ID 837110727

P E R M I T A P P R O V A L N O T I C E

RE: PERMIT NO. 63-10788

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. We direct your attention to the conditions of approval on the final page.

You should be aware that the groundwater you propose to divert is located within a drainage basin where surface waters are regulated during the months of low flow. It is possible that diversion of groundwater may have an adverse impact on these surface water flows. Information available to us at this time does not warrant refusing to issue permits in your area, but we do caution that diversions of groundwater are not allowed to deplete flows available for surface water users with earlier priority dates. Siting your well as far from surface sources as possible and casing out upper water producing zones may reduce the potential of interference.

Section 42-235, Idaho Code, requires that a "drilling permit" must be obtained from the department for all wells constructed after July 1, 1987. A drilling permit is a separate permit that must be issued in addition to your permit to appropriate water. Commencement of well construction or diversion of water under your permit to appropriate water is prohibited unless a drilling permit is obtained.

Be sure to note the special condition requiring you to install a measuring device, or a flow measurement port to provide for the installation of measuring equipment by the Department. Enclosed please find a list of measuring device options, and specifications for the installation of the flow measurement port.

MICROFILMED

AUG 29 1989

We have enclosed a form entitled "Instructions for Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit. Also enclosed for your convenience is a form entitled "Proof of Beneficial Use" that must be submitted to the Department when your project is completed. If development is complete, you may submit proof of beneficial use immediately.

Sincerely,

GARY SPACKMAN, Supervisor
Water Right Permits Section

GS: SC
Enclosures

MICROFILMED

AUG 29 1999

PR 5 pu 4W 2W - 5.24 5WSE

Form No. 202a.

4/87

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

INITIAL REVIEW BY: SL

DATE: 5/2/89

APPLICATION: 63-10788

REQUIRED INFORMATION

☒ Name: (If applicant is a corporation or partnership, names and addresses for the director, officers, and other partners must be included.) *- see attached memo.*
☒ Address:
☒ Source: (See USGS Quad for names of water sources)
☒ Point of Diversion: (10 acres for spring, lot & block descriptions for Subdivisions, local name)
☒ County:
☒ Quantity: (flow and/or volume)
☒ Period of use: Gov't. Lots: N P/D
☒ Nature of proposed use: (Include description of use) N P/U
☒ Description of diverting works:
☒ Time required for beneficial use of water:
☒ Place of use or acres irrigated:
☒ Map:
☒ Signature: (If applicant is corp., partnership, or municipality title of signator is required)
☒ Fee:
☒ yes ☐ No* In form to receipt:

ADDITIONAL INFORMATION

YES NO

☒ Overlapping place of use: (Describe source & relationship to present application on the back.)
☒ Overlapping point of diversion:
☒ Field check required: Field check by: _____
☒ Field report attached:
☒ Critical groundwater area:
☒ Groundwater management area:
☒ Send dam safety information:
☒ Send power requirement letter:
☒ Send fish farm requirement letter:
☒ Power residency affidavit:
☒ Power efficiency form:
☒ Within trust water boundry: (If yes, attach Trust Water Supplementary Analysis Sheet.)
☒ Diversion greater than 5 cfs or 500 af: (If yes, attach Large Diversion supplementary analysis sheet.)
☒ *REQUEST ADDITIONAL INFORMATION FROM THE APPLICANT

DATE REQUESTED:

☒ Additional information on reverse side:

RECEIVED
JUL 03 1989

Department of Water Resources

PROCESSING

YES NO

- ☒ ☐ In form for advertising:
☐ ☒ Statewide advertising:
☒ ☐ Fee amount, receipt number and date recorded on application:

SEND COPIES TO

YES NO

- ☐ ☒ I.D. Health and Welfare
☐ ☒ I.D. Fish and Game
☐ ☒ I.D. Lands
☐ ☒ Adjudication Bureau

YES NO

- ☐ ☒ U.S. BLM
☐ ☒ U.S. Forest Svc.
☐ ☒ Water District # _____
☐ ☒ Other _____

FINAL REGIONAL PROCESSING REVIEW

YES NO

- ☒ ☐ Affidavit of publication received:
☒ ☐ Application published correctly: If not, record action taken.

☒ Publication dates and paper recorded on application:

☒ Protests received, Final date for protest June 5, 1989

☒ Protests, dates, resolution of protest recorded on application:

☒ Recommendations attached:

☒ Measuring device required:

☒ Measuring port required: OIC

☒ Water delivered by water master? District # 63-P05

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

☒ See Below For Additional Information

Recommended Date of Priority 5/1/1989

Recommended by: DGT Date 6/29/1989

STATE OFFICE REVIEW P05, P23, P03, P16

46 OGE OIG

See below for additional information. By KW Date 7/17/89

ADDITIONAL INFORMATION

Drilling permit 63-89-W-068 approval upon request 5/1/89.

Overlap
Pld 63-10583 and 10584 different wells than in application.

Plu 63-10584 as above, irrig. of 40 ac. in SWSE. Different use.

FROM *Steve Loster*
TO *File 63-10788*

DATE *5/1/89*

SUBJECT

*Drilling permit 63-89-W-068 is associated
with the well. Drilling permit approval upon request
5/1/89. Mailed approval copies to driller.*

Corporate names:

Pres. William B. Albers

V-P's Sheldon E. Hall

Sec'y

RECEIVED
AUG 29 1989

[Signature]
SIGNATURE

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Western Region
2735 AIRPORT WAY

Boise, Idaho 83705
(208) 334-2190

MAY 10, 1989

Press-Tribune
P.O. Box 9399
Nampa, ID 83652

Dear Legal Dept.:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before JUNE 5, 1989.

Yours truly,

JUDY PENSE
Secretary

Encl.

UNRECORDED

AUG 29 1989

63-10788

ROGERS BROTHERS SEED CO.
P.O. BOX 4727
BOISE, ID 837110727

Source: GROUNDWATER

Diversion Pt: SWSE Sec 24 T 04N R 02W

Use: COMMERCIAL (.670 CFS)

Date Filed: 5/01/1989

In: T04N R02W S24 SWSE

MICROFILMED

AUG 29 1989