

**SURFACE WATER REGISTRATION CHECKLIST**

(received after July 18, 1990)

CHECK BASIN MAP Vec NAME Sandy # 3 UNADJUDICATED AREA ? yes  
RECEIPT # 95568 S W R NUMBER 274  
CHECK ENCLOSURES Jax PRELIMINARY DATA BASE ENTRY \_\_\_\_\_  
ACKNOWLEDGEMENT LETTER Vec ENTER ON STREAM INDEX \_\_\_\_\_  
CHECK QUADRANGLE MAP \_\_\_\_\_ CHECK GLO PLATS \_\_\_\_\_  
WATERMASTER CHECKLIST \_\_\_\_\_ PUBLIC NOTICE PUBLICATION scn

**FORM REVIEW**

\_\_\_\_\_ blanks filled in  
\_\_\_\_\_ signed  
\_\_\_\_\_ date received stamped

**MAP REVIEW**

\_\_\_\_\_ source and trib  
✓ diversion point location  
✓ conveyances (pipes, ditch, etc.)  
✓ place of use  
✓ scale  
✓ township, range, section  
✓ north arrow  
✓ CWRE stamp  
✓ disclaimer  
✓ date survey was performed  
✓ P.O.B. of survey  
✓ dimensions and capacity of diversion system  
✓ "beneficial use" type title  
✓ "permanent-quality" paper

#14 WATER RIGHT RECORD CHECK 1/10<sup>th</sup> ACRES FIELD INSPECTION \_\_\_\_\_

FINAL FILE REVIEW \_\_\_\_\_ FINAL DATA BASE ENTRY \_\_\_\_\_

ENTER ON PLAT CARDS \_\_\_\_\_

October 18, 1993

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WATER  
RESOURCES  
DEPARTMENT

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PAT HINDS  
1300 SE ROBERTS AV  
GRESHAM OR 97080

RE: SWR-274

Dear Mr Hinds,

This will acknowledge the receipt of map to support the pre-1909 vested water right claim in the name of DAVIS & PAULI you returned with corrections and completions. I have added the map to the file. Thank you for your attention to this matter. If you have any questions, please give me a call.

Sincerely,



Don Knauer  
Adjudication Specialist

J:\WIS\C12\SWR-0274.002



---

3850 Portland Rd NE  
Salem, OR 97310  
(503) 378-3739  
FAX (503) 378-8130

September 24, 1993

PATRICK J. HINDS  
1300 SE ROBERTS  
GRESHAM OR 97080

RE: File# **SWR-274**

DEAR PATRICK J. HINDS,

The Water Resources Department (WRD) received a little over 500 surface water registration statements in December, 1992. All of the files have been set up and receipts for the fees have been sent. The next step is to insure the maps received in support of the claims are acceptable based on Oregon Revised Statutes (ORS) and Oregon Administrative Rules (OAR).

I am returning the map you prepared for Linda D. Davis & Mary C. Pauli. You will find the item which requires completion or correction shown below. I have the description followed by the ORS or OAR site and paraphrased statute or rule.

✓ paper

OAR 690-14-170-1 "...in ink on permanent-quality linen or 0.003-inch mylar..."

You must return the map before the claim can be processed. If you cannot have the map to the WRD within 60 days, please inform me as to when it can be expected. Please mark all correspondence with the file number.

As always, if you have any questions, please give me a call.

Sincerely,



Don Knauer  
Adjudication Specialist

Enclosures

J:\WP51\SWR\CLAIMANT\2\SWR-0274.00M



3850 Portland Rd NE  
Salem, OR 97310  
(503) 378-3739  
FAX (503) 378-8130

February 23, 1993

LINDA D DAVIS & MARY C PAULI  
1843 NE BROWSER RD  
CORBETT OR 97019

Dear MS DAVIS & MS PAULI,

This will acknowledge that your Surface Water Registration Statement in the name of LINDA D DAVIS & MARY C PAULI has been received by our office. The fees in the amount of \$230.00 have been received and our receipt #95568 is enclosed. Your registration statement has been numbered SWR-274.

Our office will review your form and map in the near future. If necessary we will schedule a meeting with you that will include a site inspection. If there are problems with your form we are usually able to take care of them during our visit. We will be able to answer any questions you might have about the adjudication process at that time.

Please feel free to contact this office if you have any questions.

Sincerely,



Don Knauer  
Adjudication Specialist

Enclosure

C:\WP51\SWR\CLAIMANT\SWR-0274.001



3850 Portland Rd NE  
Salem, OR 97310  
(503) 378-3739  
FAX (503) 378-8130

## WATER RESOURCES DEPARTMENT

RECEIPT # **95568**

3850 PORTLAND ROAD NE

SALEM, OR 97310

378-8455/378-8130 (FAX)

RECEIVED FROM:

BY:

Linda D. Davis

APPLICATION

PERMIT

TRANSFER

CASH:

CHECK: #

OTHER: (IDENTIFY)

96-7643

TOTAL REC'D

\$ 230**01-00-0 WRD MISC CASH ACCT**

842.010 ADJUDICATIONS

831.087 PUBLICATIONS/MAPS

830.650 PARKING FEES Name/month

OTHER: (IDENTIFY)

\$ 230

\$

\$

\$

**REDUCTION OF EXPENSE**

CASH ACCT.

COST CENTER AND OBJECT CLASS

VOUCHER #

\$

**03-00-0 WRD OPERATING ACCT****MISCELLANEOUS:**

840.001 COPY FEES

850.200 RESEARCH FEES

880.109 MISC REVENUE: (IDENTIFY)

520.000 OTHER (P-6): (IDENTIFY)

\$

\$

\$

\$

**WATER RIGHTS:**

842.001 SURFACE WATER

842.003 GROUND WATER

842.005 TRANSFER

**EXAM FEE**

\$

\$

\$

842.002

842.004

842.006

**RECORD FEE**

\$

\$

\$

**WELL CONSTRUCTION**

842.022 WELL DRILL CONSTRUCTOR

842.016 WELL DRILL OPERATOR

LANDOWNER'S PERMIT

**EXAM FEE**

\$

\$

842.023

842.019

842.024

**LICENSE FEE**

\$

\$

\$

**06-00-0 WELL CONST START FEE**

842.013 WELL CONST START FEE

MONITORING WELLS

\$

\$

CARD #

CARD #

**45-00-0 LOTTERY PROCEEDS**

864.000 LOTTERY PROCEEDS

\$

**07-00-0 HYDRO ACTIVITY**

LIC NUMBER

842.011 POWER LICENSE FEE(FW/WRD)

842.115 HYDRO LICENSE FEE(FW/WRD)

HYDRO APPLICATION

\$

\$

\$

RECEIPT #

**95568**

DATED:

12-29-92

BY:

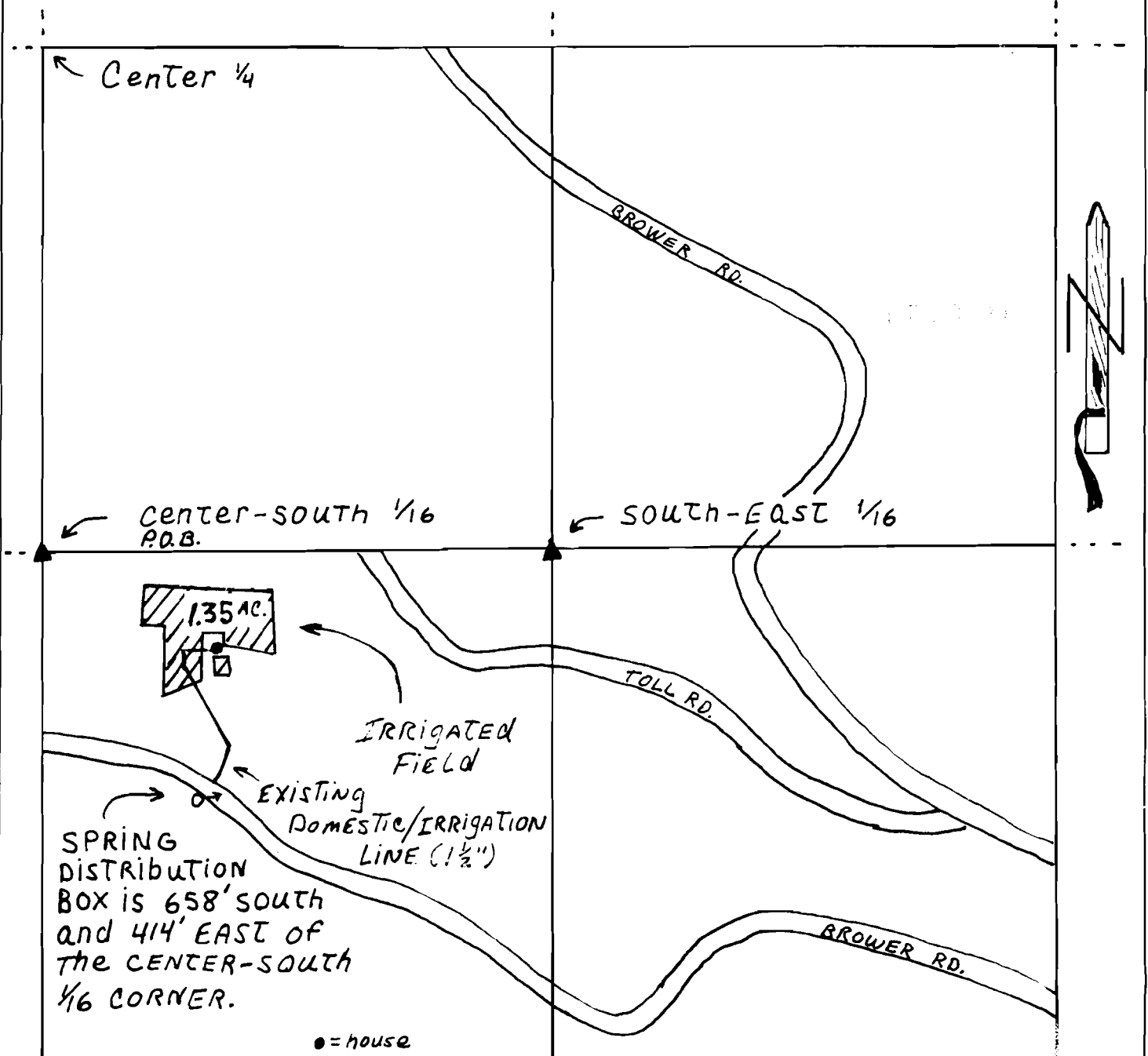
P. B. Smith

# VESTED WATER RIGHT MAP

IN the name of: MARY C. PAULI and LINDA D. DAVIS dba "BEDINA NURSERY"

SECTION 27, T.1N., R.5E., W.M.

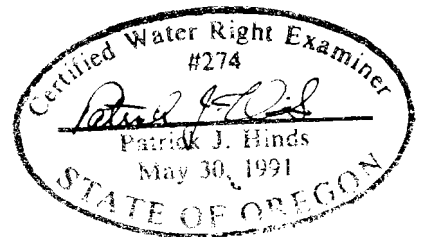
SCALE 1 inch = 400 FEET



BASIS OF BEARING RS 30733

Surveyed Sept. 15, 1992

The purpose of this map is to identify the location of the water right. It is not intended to provide information relative to the location of property ownership boundary lines.



September 24, 1993

PATRICK J. HINDS  
1300 SE ROBERTS  
GRESHAM OR 97080

RE: File# SWR-274

OCT 18 1993

DEAR PATRICK J. HINDS,

The Water Resources Department (WRD) received a little over 500 surface water registration statements in December, 1992. All of the files have been set up and receipts for the fees have been sent. The next step is to insure the maps received in support of the claims are acceptable based on Oregon Revised Statutes (ORS) and Oregon Administrative Rules (OAR).

I am returning the map you prepared for Linda D. Davis & Mary C. Pauli. You will find the item which requires completion or correction shown below. I have the description followed by the ORS or OAR site and paraphrased statute or rule.

paper OAR 690-14-170-1 "...in ink on permanent-quality linen or 0.003-inch mylar..."

You must return the map before the claim can be processed. If you cannot have the map to the WRD within 60 days, please inform me as to when it can be expected. Please mark all correspondence with the file number.

As always, if you have any questions, please give me a call.

Sincerely,



Don Knauer  
Adjudication Specialist

Enclosures

J:\WP51\SWR\CLAIMANT\2\SWR-0274.00M



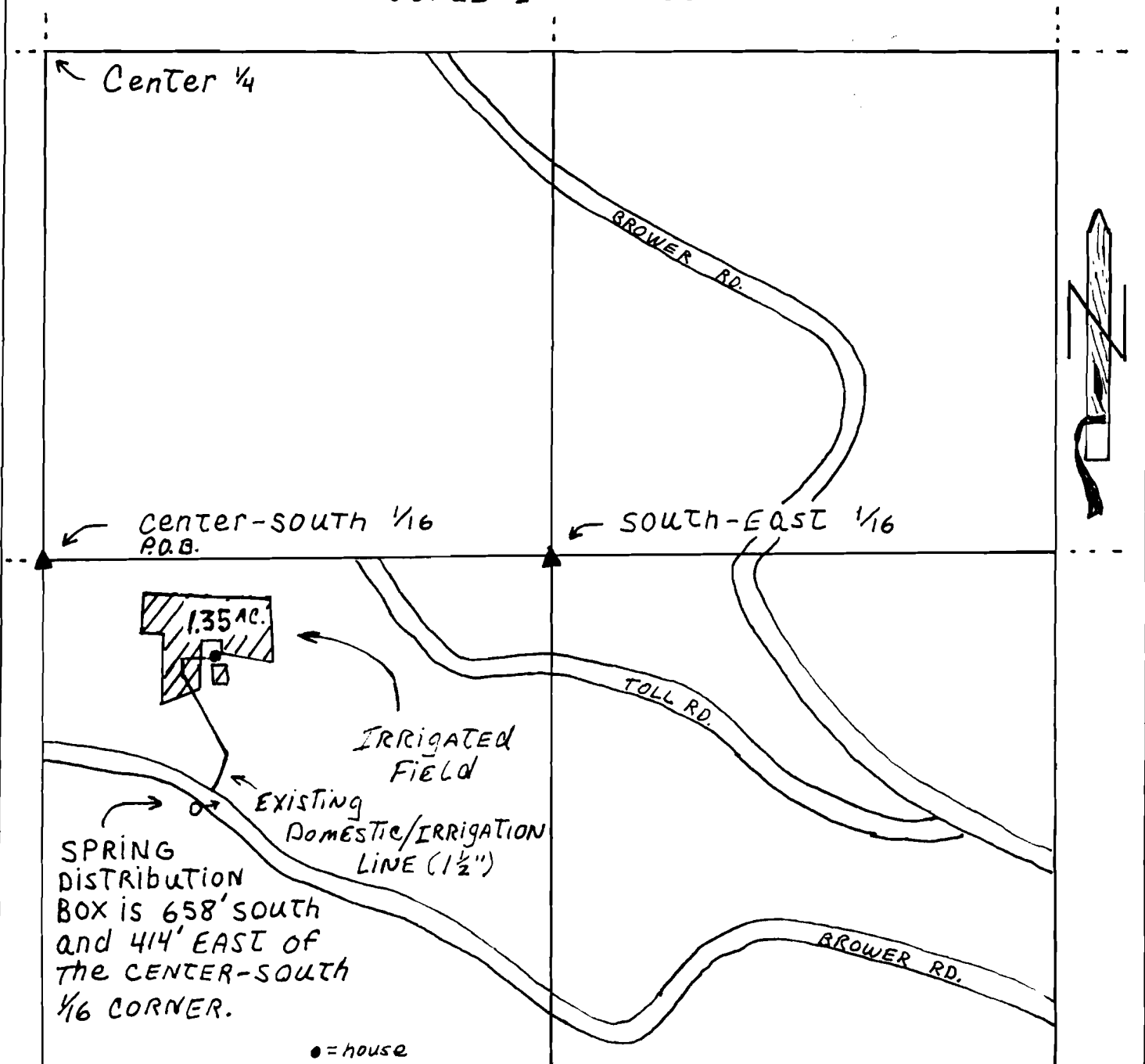
3850 Portland Rd NE  
Salem, OR 97310  
(503) 378-3739  
FAX (503) 378-8130

# VESTED WATER RIGHT MAP

IN the name of: MARY C. PAULI and LINDA D. DAVIS dba. "BEDINA NURSERY"

SECTION 27, T.1N., R. 5E., W. M.

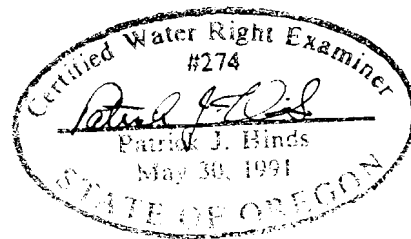
SCALE 1 inch = 400 FEET



BASIS OF BEARING P.S. 30733

Surveyed Sept. 19, 1992

The purpose of this map is to identify the location of the water right. It is not intended to provide information relative to the location of property ownership boundary lines.



REGISTRATION STATEMENT CLAIM OF BENEFICIAL USE

DEC 2 1972

INFORMATION: Persons Contacted:

Mary C. Pauli  
Linda D. Davis  
1843 NE Brower Road  
Corbett, OR 97019  
(503)695-2137

SOURCE: Unnamed spring as located on "Vested Water Right Map".

DIVERSION

POINTS:

The spring emerges from a sidehill and is surrounded by an approximately 12' X 8½' concrete box, 2.75 ft. deep. Water depth in the box is about one foot. The box has three pipes (2 1/2", 1 1/4", 1" I.D.) that appear to be tapping water from this source. The concrete box appears to have a dirt floor; water leaks out of the holes punched in it for the three supply pipes. The box is very old, the concrete of poor quality, the wood plank cover is okay. It is difficult to tell if there are multiple springs, forming a "spring area" or if the surrounding area is saturated from leakage from the distribution box. This water crosses Brower Road through a 15" culvert, located about 20 feet from the spring box. During my time at this site water continually flowed through this culvert.

MOTOR/

PUMP:

The motor is a Flint and Walling, 1/3 H.P., 8.8 amp. single phase, model CPJ035. The pump has a 1" intake/discharge. (see brochure enclosed)

PIPE:

Current irrigation is done by hand with a standard garden hose and nozzle. Soaker hoses are also used. The ultimate goal is to install a drip system with P.V.C. pipe. Some P.V.C. fittings have been purchased.

HEADS:

Final drip system not in place or service yet.

USES:

Water is used for domestic, one residence and irrigation. The area irrigated for commercial use has nursery stock of various type and in varying stages of development. (Owners to provide types and water requirements.)

LIFT:

Elevation difference between spring and field is 12 feet. The spring is above the field and house.

CALCULATIONS:

In two trial runs, using a faucet that a hose would typically be attached to right now, a four gallon container was filled in an average of 36 seconds. This is about 0.9 C.F.M.. It is expected that this rate is a little low considering the difficulty of instantaneously opening and closing a valve.

REPORT

POINT OF  
BEGINNING:

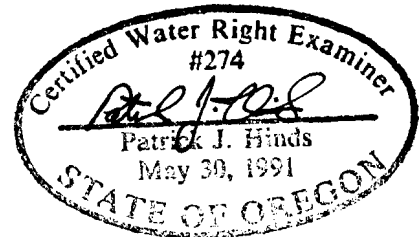
Five property corners on Public Survey #30733, that separate track two from track three were found and tied as was Brower Road station 121 + 77.20 and 124 + 25.53, by stadia/traverse. Radial sideshots were made to field corners.

SPECIAL  
CONDITIONS:

None.

REMARKS:

Mary Pauli and Linda Davis are filing this claim before completion of the drip systems installation in order to comply with the time requirements of Senate Bill 130. The Vested Water Right Map and field inspection of conditions was completed by me on 10/03/92 and the facts contained in this report and map are correct to the best of my knowledge.



December 23, 1992

Linda Davis  
Mary Pauli  
1843 NE Brower Rd.  
Corbett, OR 97019

Donald E. Knauer, Adjudication Specialist  
Oregon Water Resources Dept.  
Adjudication Section  
3850 Portland Rd NE  
Salem, OR 97310

Dear Mr. Knauer,

This letter is a statement of use and an explanation of the enclosed exhibits. We believe that the evidence we are submitting will provide adequate substantiation for our claim to domestic and agricultural water rights.

There has been a residence on the above property since before 1909. The original residence on this property was a farmhouse. The farmhouse was replaced by the current residence in 1929. The property has been used for agricultural purposes since before 1909. We have been told by a neighbor, Etta Martin, of 1825 NE Brower, that the property was used as a nursery before she moved to the adjacent property approximately 25 years ago. There is no other source of water for the property, so all domestic and agricultural water use is and has been from the claimed surface water source.

EXHIBITS:

- ✓1. Notarized deed for land and water rights for the above property, dated July 6, 1895, transferring land and water rights to E. McKinney. This indicates that the water we claim rights to was in use on this property since 1895. This predates the 1909 surface water law. The original of this statement is on file with the property deed at Multnomah County.

- ✓2. Notarized statement by Clara J. Baker. This document was signed by the great great granddaughter of E. McKinney, the 1895 owner of the property, and states that there has been continuous use of the claimed water on this property since before 1909. The original of this statement is on file with the property deed at Multnomah County.
- ✓3. Vested Water Right Map, Registration Statement Claim of Beneficial Use, and vicinity maps surveyed and completed by Patrick J. Hinds, Certified Water Right Examiner.
- ✓4. Photocopy of brochure for motor/pump currently in use on the property. Original of brochure is in possession of the property owners.
- ✓5. Aerial photographs obtained from U.S. Corp of Engineers (1935, 1957, 1973, 1978, and 1983) and from the Audubon Society (1989), reproduced and enlarged by Bergman Photographic Services. These photos, starting from the earliest taken by the Corp of Engineers, show that the property has been cleared and planted continuously since before 1935. The photos show the presence of blueberry nursery and orchard stock (still on the property), other nursery and orchard stock, and cleared, planted fields (probably planted in hay or pasturage).

1935: This photo shows the house on the right side (E) of the property, with a drive leading to it, and a field long cleared of timber and in cultivation. The horizontal lines on the lower middle of the property (S corner) are plowed furrows for crops.

1957: This photo shows the presence of several cleared and plowed areas, a fenced area in hay or pasture, a barn (N of the house at the end of the drive), and a greenhouse (NE of the barn).

1973: This photo shows the presence of both blueberry nursery stock (to the NNE of the house) and other nursery stock (to the left of the blueberries (N of the barn). The photo also shows a cleared fenced area, and a plowed area (W of the barn).

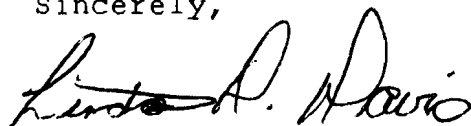
1978: This photo shows the continued presence of nursery stock, a cleared hay field or pasture, and a cleared, plowed area.

1983: This photo shows the continued presence of nursery stock and a cleared field.

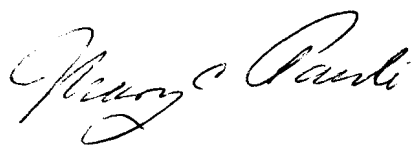
1989: This photo shows the continuing use of the property for agricultural purposes during our residence. The blueberries were used for berry production.

We believe the above exhibits will show adequate evidence of continued use of the claimed water. We are hereby submitting the completed forms, this letter, and the exhibits detailed above for your adjudication.

Sincerely,



Linda D. Davis  
Owner



Mary C. Pauli  
Owner

RECEIVED

DEC 29 1992

WATER RESOURCES  
SALEM, OREGON

A. D. Keagy  
Julia M. Houtcrump  
State of Oregon,

John Gantenbein  
by C. W. Gantenbein, his Attorney in fact (real)  
Ambrose E. Gantenbein

County of Multnomah } This certifies, that on this second day of  
November A.D. 1895, before me, the undersigned, a Notary Public in  
and for said County and State, personally appeared the within  
named Ambrose E. Gantenbein, and appeared the within named  
John Gantenbein, by C. W. Gantenbein, his attorney in fact, known  
to me to be the identical persons described in and who ex-  
ecuted the within instrument, and acknowledged to me that they  
executed the same. And the said C. W. Gantenbein, attorney in fact  
for John Gantenbein, acknowledged to me that he executed the  
within conveyance for and on behalf of said John Ganten-  
bein as his said principal's act and deed.

In Testimony Whereof, I have hereunto set my hand and  
seal, at the day and year last above written.

And for record

{ Notarial }  
{ Seal }

A. D. Keagy  
Notary Public for Oregon

1895 at 5<sup>40</sup> P. M.

read read the day and year last above written

Recd. for record

Nov. 2, 1895 at 2<sup>40</sup> P. M.

{ Notaral  
{ Seal

A. D. Keagie

Notary Public for Oregon

11362

Know all men by these presents, that we, Edward H. Hoyerstay  
and Clara Hoyerstay, his wife, of Catwrell, County of Multnomah,  
State of Oregon in consideration of One hundred Dollars, to them  
paid by E. J. Mc Kinney (Trustee) of Catwrell, County of  
Multnomah, State of Oregon, have bargained and sold; and by  
these presents do grant, bargain, sell and convey unto said E.  
J. Mc Kinney, his heirs and assigns, all the following bounded  
and described real property, situated in the County of Mult-  
nomah and State of Oregon to-wit: A certain strip of land  
twenty feet in width across the following described real property,  
to-wit: The South half of the South half of Section 27  
Township One (1) N. R. 5 East of the Willamette meridian,  
now owned by the grantors herein, same being in Multnomah  
County, Oregon, said strip of land to be the same  
strip of land over which the line of the Catwrell Pull-  
man Road and Lumber Company passes at the present  
time, and also hereby sell, assign and transfer unto said  
E. J. Mc Kinney all our right, title and interest in and to

time, and also hereby sell, assign and convey

E. J. McKeeney all our right, title and interest in and to  
the water rights owned by us in and to the water of Spring  
Creek by virtue of being the owners of the above described  
real property and hereby authorize him to divert said  
water as he may desire. Together with all and singular the  
tenements, hereditaments and appurtenances thereto belong-  
ing or in anywise appertaining, and also all our estate, right,

228

184

title and interest, in and to the same, including power and  
claim of law. To have and to hold, the above described and  
granted premises unto the said E. J. McKeeney, his heirs and  
assigns forever.

Whereof, we, the grantors above named, hereunto set

granted premises unto the same v. s. ...  
amigos forever.

In Testimony Whereof, we, the grantors above named, hereunto set  
our hands and seals this 6th day of July A.D. 1895.

Signed, sealed and delivered in the presence of us as witnesses.

Francis Wilmet

Charles Zuer

State of Oregon

County of Multnomah

Edward H. Hysteray

Clara Hysteray

This certifies that on this 6th day of  
July A.D. 1895, before me, the undersigned, a Notary Public, in  
and for said County and State, personally appeared the within  
named Edward H. Hysteray and Clara Hysteray, his wife, who  
are personally known to me to be the identical persons described  
in and who executed the within instrument, and acknowledged  
to me that they executed the same for the uses and purposes  
therein mentioned.

In Testimony Whereof, I have hereunto set my hand and Notarial  
seal the day and year last above written.

Read for record

Nov 24, 1895 at 11-A.M.

{ Notarial  
Seal }

Francis Wilmet

Notary Public for State of Oregon

Witnessed by these persons, that I, Margaret L. Price,  
do hereby certify to

DEC 29 1992

RESOURCES DEPT.  
SALEM, OREGON

I, Clara J. Baker, great, great granddaughter of E. McKinney whom resided on the property located at (see attached document for legal description) and commonly known as 1843 NE Brower Road, Corbett, OR, do solemnly declare that E. McKinney, and family used water for said residence from 1895, and water has been in continual use from that time. Said water was and is supplied from a spring originating from Youngs Creek drainage located south of said property.

Clara J. Baker

JAN. 11.

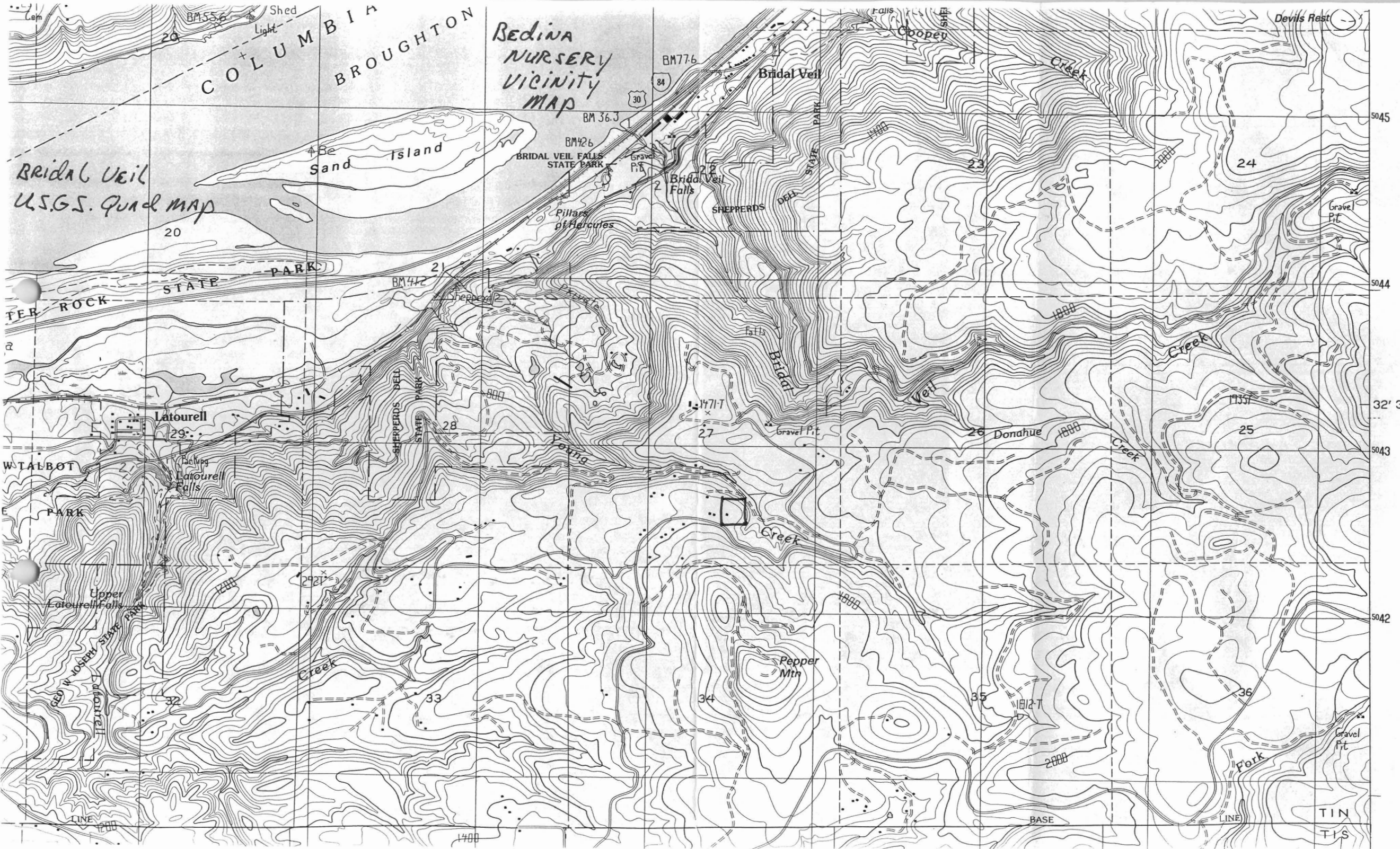
Signed before me this 11th day

January 1992

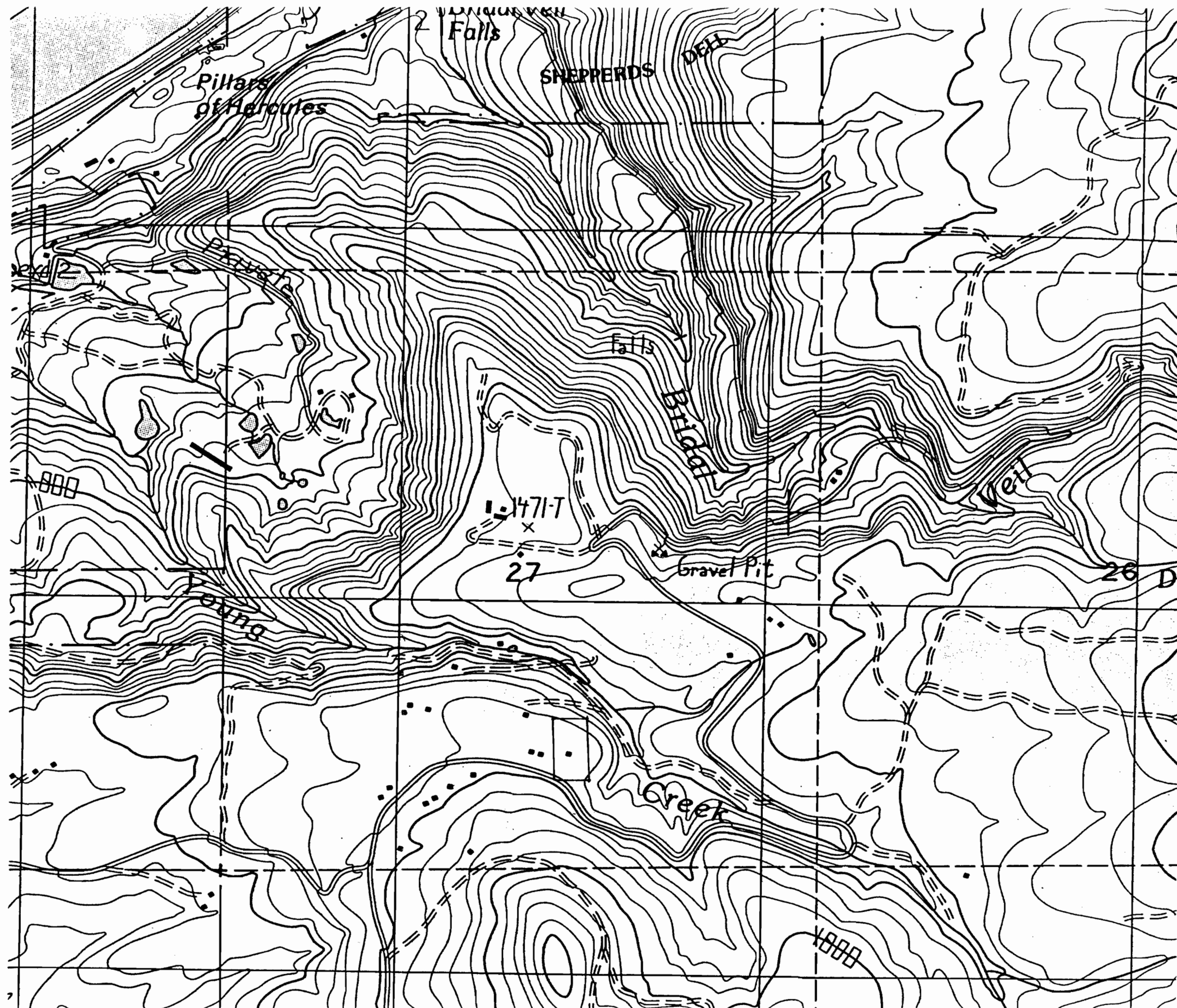
Robert L. Lamm  
Notary Public  
Oregon

My Commission Expires 6-22-90





BEDINA NURSERY  
VICINITY MAP  
BRIDAL VEIL  
QUAD MAP

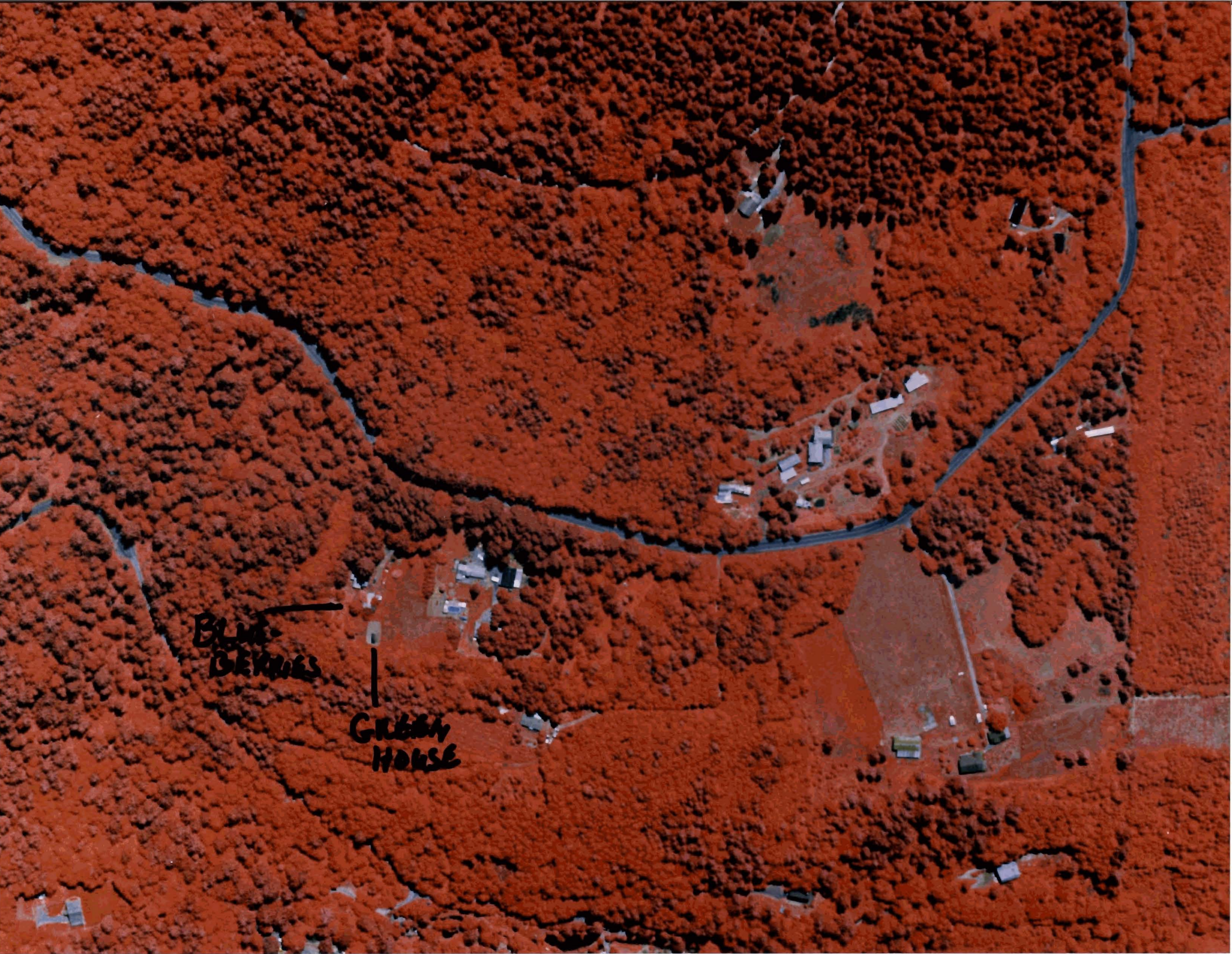




Bergman Photographic Services, Inc.  
7816 SE 13th Ave.  
Portland, Oregon  
97202  
(503) 239-6010

Mary Pauli 695-2137  
655-8546 x7323

RECEIVED  
DEC 29 1992  
WATER RESOURCES DEPT.  
SALEM, OREGON



BLUE  
BERRIES

GREEN  
HOUSE

**BERGMAN**

**PHOTOGRAPHIC SERVICES INC.**

7816 SE 13th Ave. Portland, OR 97202

**(503) 239-6010**

© 6-11-89 File Number: BP 14-11



CROPS

BARN

CROPS

GREEN  
HOUSE

R766 /

1983-1176



BLUE-BERRIES

NURSERY CROPS

R697 /

1978-1415

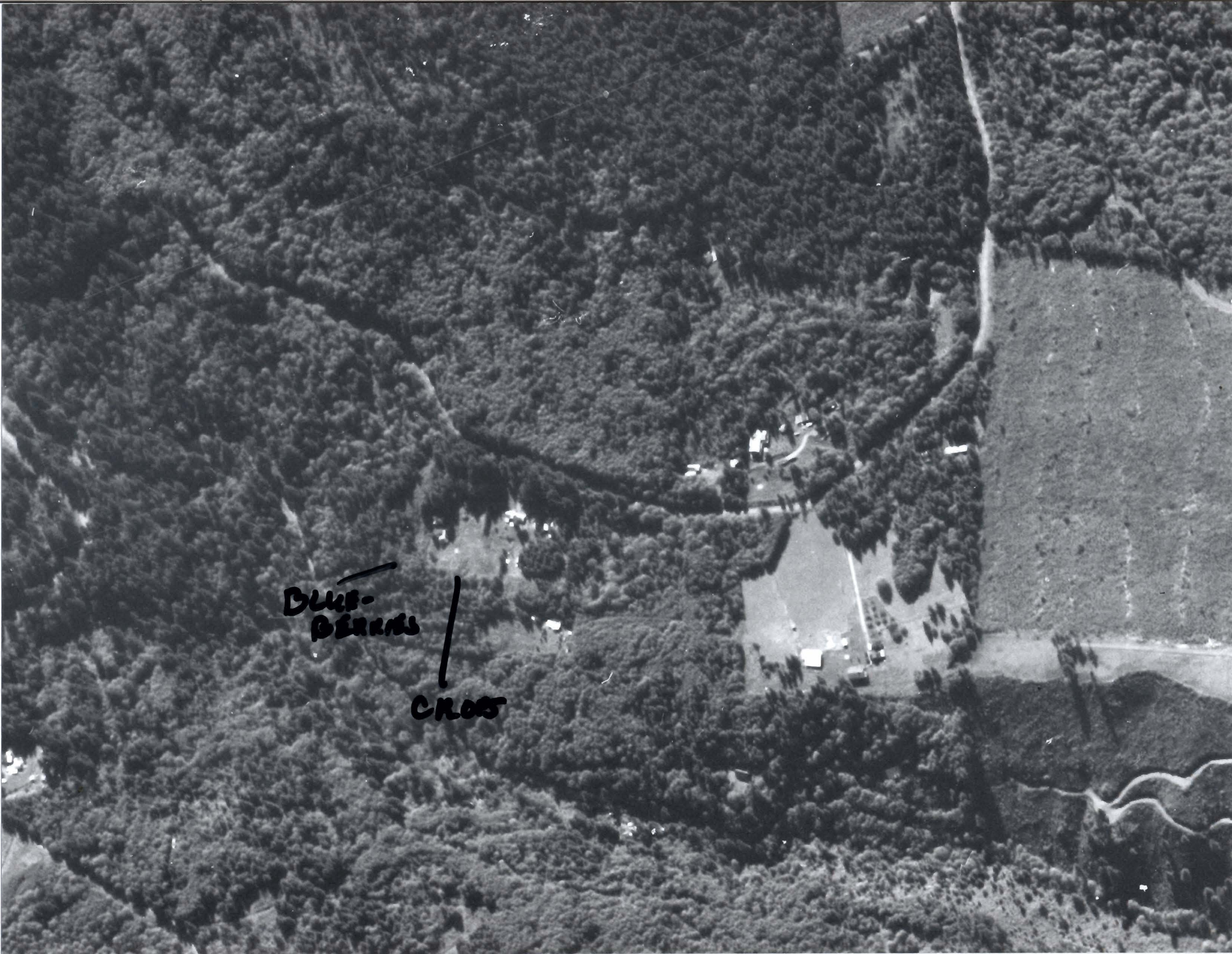


BLUE  
BERRIES

NURSERY  
CRAPS

R659 /

1973-2899



BLUES-  
BERRIES

CROSS

This is a black and white aerial photograph of a heavily forested landscape. A small, irregularly shaped clearing or pond is visible in the lower-left quadrant, surrounded by dense trees. To the right of this clearing, a road or path winds through the forest. Further to the right, there is a larger, more open area that appears to be a field or a cleared section of land, with some structures or buildings visible. The overall scene is dominated by the dense canopy of the forest.

500 /  
1957-4327



HOUSE

PLOW  
LINES

BROWER RD

N

C N

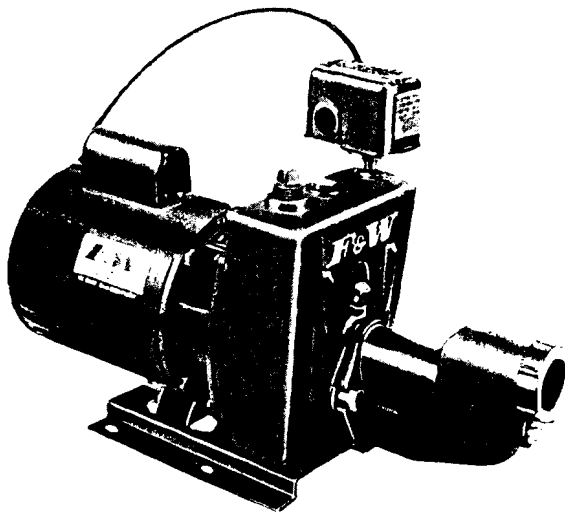
1935 ~~A~~ 253

# OWNERS GUIDE

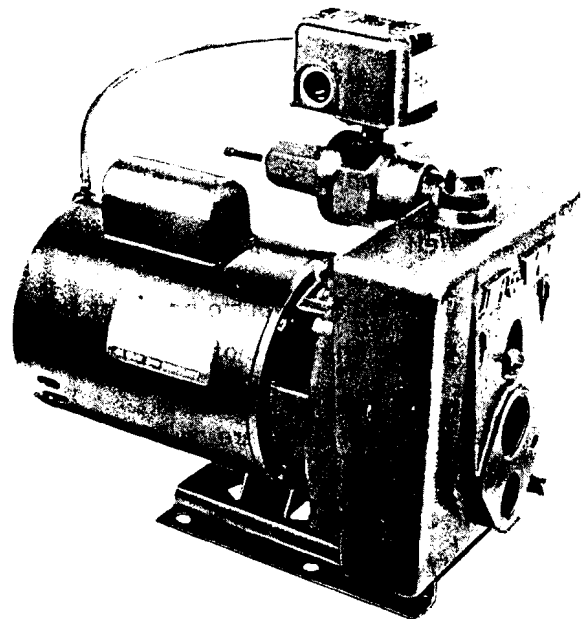
## TO

# INSTALLATION AND OPERATION

*CP & <sup>035</sup>CPJ SERIES Convertible Pumps*  
*CPS & CPJS SERIES Shallow Well Pumps*



SHALLOW WELL EJECTOR  
FOR LIFTS TO 25'



CONVERTIBLE EJECTOR  
FOR SHALLOW OR DEEP WELL  
PUMPING



*Flint & Walling, Inc.*

KENDALLVILLE, INDIANA 46755, TELEPHONE 219-347-1600

# 132463

## INTRODUCTION

Your new Flint & Walling Jet Pump is a well designed and quality manufactured piece of equipment. This pump along with a properly constructed installation will give many years of trouble-free service. It is suggested that you read the complete manual before attempting to put your new pump into service.

## PRE-INSTALLATION CONSIDERATIONS

1. Check state and local sanitary codes. Follow their recommendations as they are for your protection.
2. Location of pumping installation is at your option.
3. Well should be pumped clean of all sand and grit.
4. Determine the pumping water level in the well casing. This is an important factor in deciding what type of installation you must make. The driller can furnish this information.

Make certain there are no leaks in the below ground installation. Fill the drop pipe or pipes to the top and observe. Any drop in water level is an indication of a leak and must be corrected. Make certain the casing seal is properly installed. Check wiring for adequacy and safety. Make certain that both the service box and pressure switch enclosure are properly grounded.

## TYPICAL INSTALLATIONS

Specific installations may vary due to component selection and type of well. Refer to Figure I or II which represents a typical functional installation.

**CAUTION:** Always disconnect power before performing maintenance on pump or motor.

Close service valves located between pump and pressure tank and between pressure tank and house lines to prevent loss of prime.

# SHALLOW WELL INSTALLATIONS

Shallow well installations are satisfactory where the suction lift is less than 25 feet. Should total lift exceed 25 feet the installation must be considered a deep well installation. Figure 1 indicates a complete shallow well installation and its' variations.

CHART I

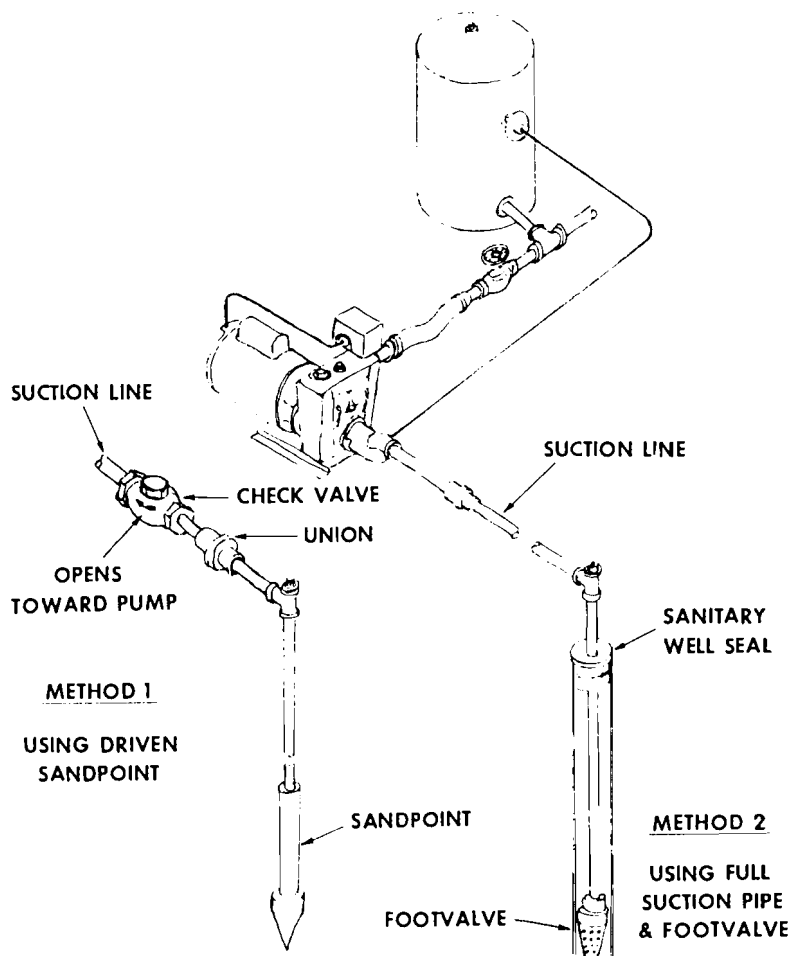
RECOMMENDED SUCTION PIPE SIZES FOR SHALLOW WELL PUMP

| MOTOR H.P.<br>SIZE | VERTICAL PIPING | LENGTH OF OFFSET FROM WELL IN FEET |           |            |            |
|--------------------|-----------------|------------------------------------|-----------|------------|------------|
|                    |                 | 0 TO 20                            | 20 TO 100 | 100 TO 200 | 200 TO 400 |
| 1/3                | 1"              | 1"                                 | 1 1/4"    | 1 1/2"     | 2"         |
| 1/2                | 1"              | 1"                                 | 1 1/2"    | 1 1/2"     | 2"         |
| 3/4                | 1 1/4"          | 1 1/4"                             | 1 1/2"    | 2"         | 2"         |
| 1                  | 1 1/4"          | 1 1/4"                             | 1 1/2"    | 2"         | 2"         |
| 1 1/2              | 1 1/4"          | 1 1/4"                             | 1 1/2"    | 2"         | 2"         |

## TYPICAL SHALLOW WELL INSTALLATION

### SINGLE PIPE

FIG. NO. 1



# DEEP WELL INSTALLATIONS

A deep well installation with convertible type pumps require the placement of the jet within the well casing. Refer to Figure 11 for requirements of deep well installations and their variations. A single suction pipe in well and a packer type jet complete with foot valve is required for all well casings at 2, 2½, and 3" size. Casing sizes of 4" or larger use a double drop pipe with attached jet and foot valve. There are limitations as to the depth at which the jet is placed. Do not exceed the manufacturers specification of the jet you have purchased.

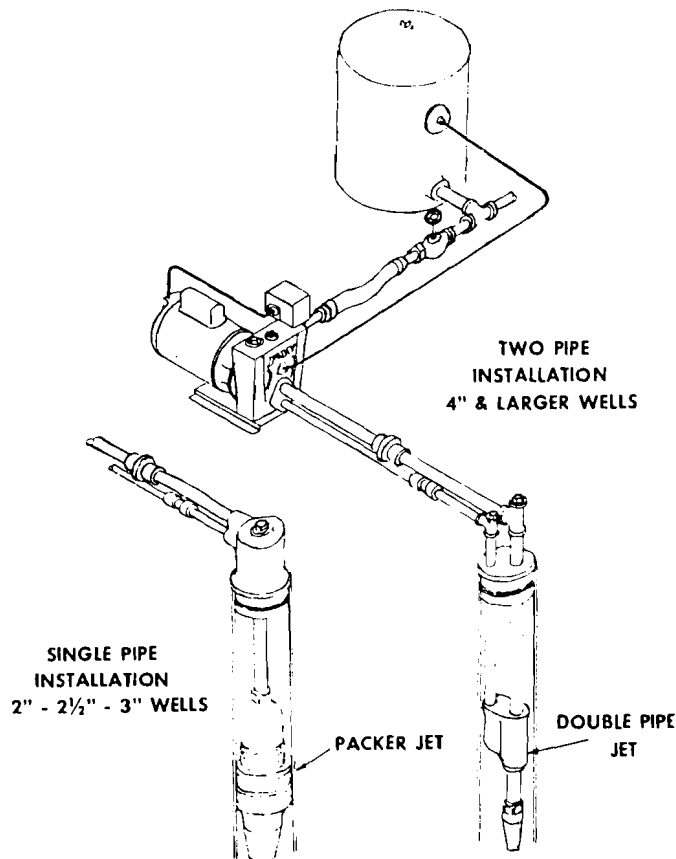
**CHART II**  
**PIPE SIZES REQUIRED FOR OFFSET PIPING FOR DEEP WELL EJECTOR INSTALLATION**

| DISTANCE<br>WELL TO PUMP | 1/3 HP |        | 1/2 HP |        | 3/4 HP |        | 1 HP & 1½ HP |        |
|--------------------------|--------|--------|--------|--------|--------|--------|--------------|--------|
|                          | SUC.   | PRESS. | SUC.   | PRESS. | SUC.   | PRESS. | SUC.         | PRESS. |
| 0 to 25 feet             | 1/4    | 1      | 1/4    | 1      | 1/4    | 1      | 1/4          | 1      |
| 25 to 50 feet            | 1/4    | 1      | 1/4    | 1/4    | 1/2    | 1/4    | 1/2          | 1/4    |
| 50 to 75 feet            | 1/4    | 1/4    | 1/4    | 1/4    | 1/2    | 1/2    | 1/2          | 1/2    |
| 75 to 100 feet           | 1/2    | 1/4    | 1/2    | 1/4    | 1/2    | 1/2    | 2            | 1/2    |
| 100 to 150 feet          | 1/2    | 1/4    | 1/2    | 1/2    | 2      | 1/2    | 2            | 2      |

## TYPICAL DEEP WELL INSTALLATION

### SINGLE PIPE

### FIG. NO. 2



# WIRING

Proper planning for the wiring of your pump motor is essential. An adequate installation provides ample power for the motor, fire protection and safety from hazardous electrical shock. It is suggested that you consult your local Electrical Code before attempting a wiring installation.

Wire size must increase with length and motor H.P. Consult Chart I for recommended wire size. Should indecision become a problem, always use the next larger size.

When fusing the pump service entrance box consult Chart II for proper fuse. Use only the size fuse that is stipulated for your particular installation. Never use one larger. Service should never be reinstated to the pump motor by attempting to circumvent a blown fuse by any means.

Your Flint & Walling pump motor has a built-in thermal protector. It protects the motor against overheating due to any load beyond the capacity of the motor. Repeated cycling of the thermal overload is an indication that either the motor, pump or pumping system has acquired a serious problem. Immediate correction is imperative.

All jet pump motors are suitable for use with 60 cycle A.C. current only. 1/3 and 1/2 H.P. pumps are factory connected for 115V at the motor. Pumps with 3/4, 1 and 1 1/2 H.P. motors are connected for 230 volt service. 1/3 H.P. motors are single voltage and cannot be wired for 230 volt service. All other pumps (1/2 thru 1 1/2 H.P.) are dual voltage and may be field connected for either 115 or 230 volt service.

NOTE the following wiring diagram or the motor nameplate if a change is required. Always use the higher voltage where possible.

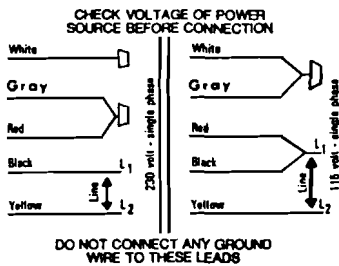


FIGURE 3

CHART III FOR MINIMUM WIRE SIZE

| DISTANCE FROM<br>MOTOR TO FUSE<br>BOX OR METER | MOTOR HP |        |        |        |        |        |        |
|------------------------------------------------|----------|--------|--------|--------|--------|--------|--------|
|                                                | 1/3      | 1/2    |        | 3/4    |        | 1      |        |
|                                                | 115 V.   | 115 V. | 230 V. | 115 V. | 230 V. | 115 V. | 230 V. |
| 0 to 50 ft.                                    | 14 GA    | 12 GA  | 14 GA  | 12 GA  | 14 GA  | 10 GA  | 14 GA  |
| 50 to 100 ft.                                  | 12 GA    | 10 GA  | 14 GA  | 8 GA   | 14 GA  | 8 GA   | 14 GA  |
| 100 to 150 ft.                                 | 10 GA    | 8 GA   | 14 GA  | 6 GA   | 14 GA  | 4 GA   | 12 GA  |
| 150 to 200 ft.                                 | 8 GA     | 8 GA   | 14 GA  | *      | 12 GA  | *      | 12 GA  |
| 200 to 300 ft.                                 | 6 GA     | 6 GA   | 12 GA  | *      | 10 GA  | *      | 10 GA  |
| Fuse Size                                      | 25 AMP   | 30 AMP | 15 AMP | 45 AMP | 20 AMP | 50 AMP | 25 AMP |

\* THESE SIZES NOT RECOMMENDED FOR 115 VOLTS.

## WIRING - con't

Grounding the pump (fuse box) to a good ground is an essential procedure for your protection as well as any one else who may come in contact with the installation. CAUTION: Plastic piping is an insulator not a conductor. Use a shielded three wire cable conductor from service entrance to pressure switch. Make certain that the wire is grounded to the pressure switch enclosure as well as at the service entrance enclosure.

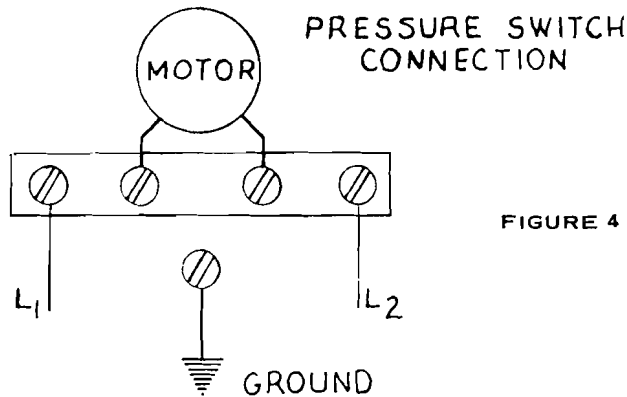


FIGURE 4

## PLACING THE PUMP IN OPERATION

Once the installation has been completed, the following procedure for pump operation should be followed:

Remove the 3/4" priming plug from the top of the pump and fill the pump with water. Replace the plug, close discharge hand valve or regulating valve and start the pump. Pressure will quickly build and register on the gage. Having carefully observed all pre-service checks, the pump should prime and deliver water. If pressure does not build repeat priming operation.

The proper regulator valve setting is dependent upon the type of installation and pressure setting recommended for the particular unit you have. For shallow well installations, the regulating valve, if supplied, should be set at full open.

For deep well installations close the regulating valve by turning adjusting screw clockwise and start the pump. With no pressure in the tank (service outlet open) gradually open the regulating valve until the operating pressure in the pump reaches the setting shown on the chart.

| H.P.  | PRESSURE SETTING |
|-------|------------------|
| 1/3   | 24 P.S.I.        |
| 1/2   | 31 P.S.I.        |
| 3/4   | 40 P.S.I.        |
| 1     | 46 P.S.I.        |
| 1 1/2 | 55 P.S.I.        |

CHART IV

## SERVICE CHECK LIST

### MOTOR WILL NOT RUN

If the motor is cold, check if power is reaching motor. Use a simple test lamp. If power is reaching a cold motor, the motor is probably burned out.

If the motor is warm, it usually indicates that the automatic reset overload has tripped. Check:

1. Motor wired for the same voltage as the supply. (See wiring diagram).
2. Voltage at switch as the motor starts. A voltage drop of more than 10% indicates undersize wiring.
3. Mechanical drag in the pump or motor. An unprimed pump should start freely and spin after shutting off the power.

### INITIAL PRIME

It is often necessary to reprime the pump several times to work all the air out of the system. If it still won't prime, check the following:

1. Check if the inlet is submerged.
2. Check for leaks in the system. A drop in the water level in the pump body indicated a leak in the piping, foot valve, or well packer. (Used with single pipe jets only.)

### LOSS OF PRIME

This usually indicates that the well level has dropped below the inlet or leak has developed in the suction system.

The pump capacity can be reduced to match the well yield, by additional closing of the Regulating Valve.

See Test Procedure to determine well drawdown. Close the Regulating Valve to a point where the well level will remain above the foot valve.

### LOW PRESSURE

Check water level in well.

Check if proper jet for the pump and depth is being used.

Check for leaks in the piping.

Check if pressure and suction pipes have been reversed. (A maximum pressure of about 15 pounds and no flow is the symptom of this reversed pipe condition.)

Check for clogged jet.

### FREQUENT STARTS AND STOPS

A tank with its normal amount of air will supply about 15% of its capacity between 20 and 40 pounds. Check if Air Volume Control is functioning. A small amount of air should be drawn into the Air Volume Control each time the pump starts.

Check tank for air leaks. Apply soap suds to upper plugs and seams.

Check for leaks at foot valve and in all piping.

### EXCESS AIR

This condition is usually caused by excessive well drawdown or gaseous well. Should air sputter at the faucets, temporary correction of the condition can be made by stopping the pump and opening a faucet.

### PUMP SERVICING

The exploded views show the construction and location of pump parts. Refer to them if it is necessary to make repairs.

## MAINTENANCE

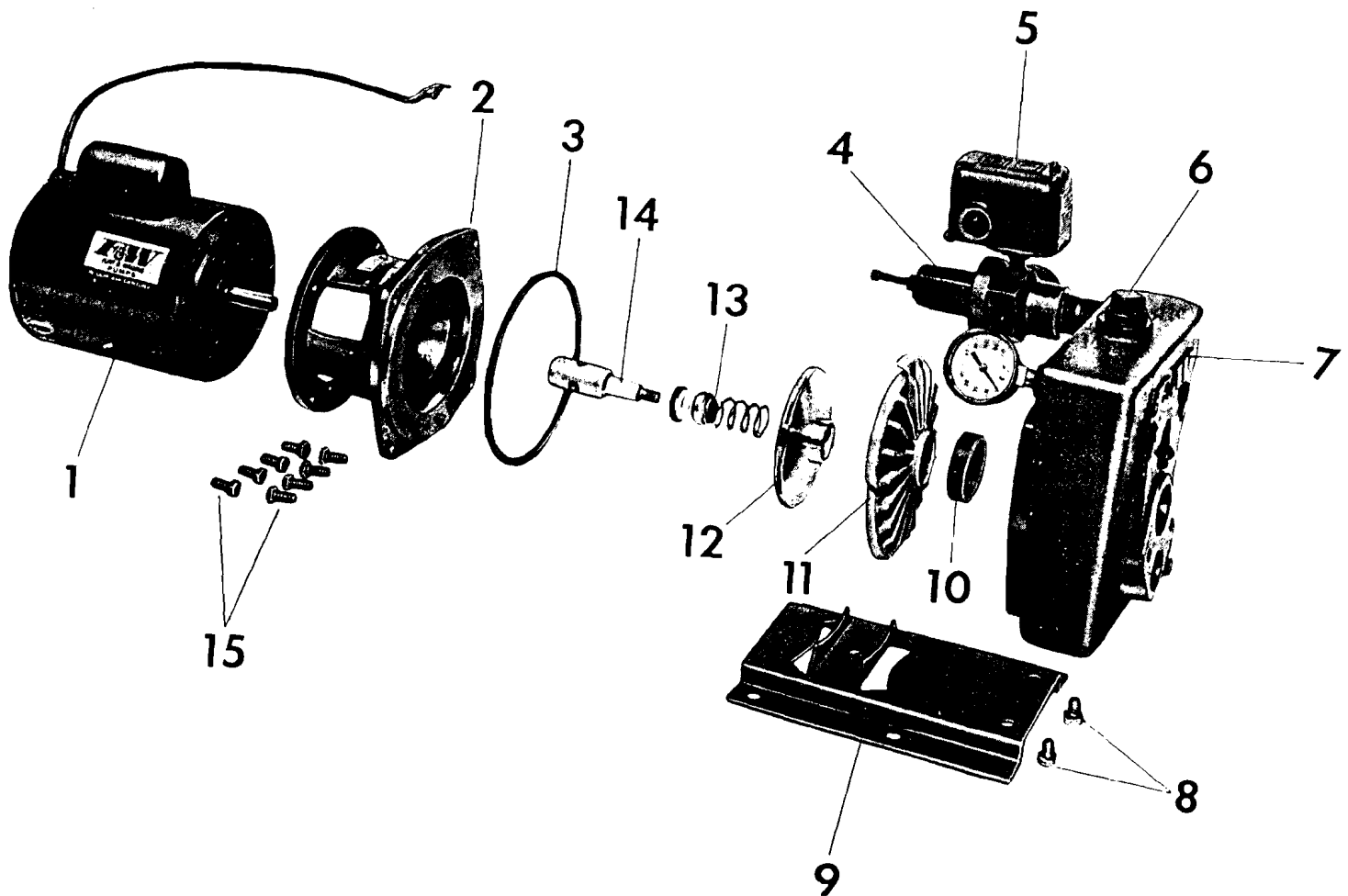
### LUBRICATION

The pumps and motors require no lubrication. The ball bearings of the motor have been greased at the factory and under normal operating conditions should not require further greasing.

### FREEZING

Drain the entire system if there is danger of freezing.

## CONVERTIBLE PUMP REPAIR PARTS

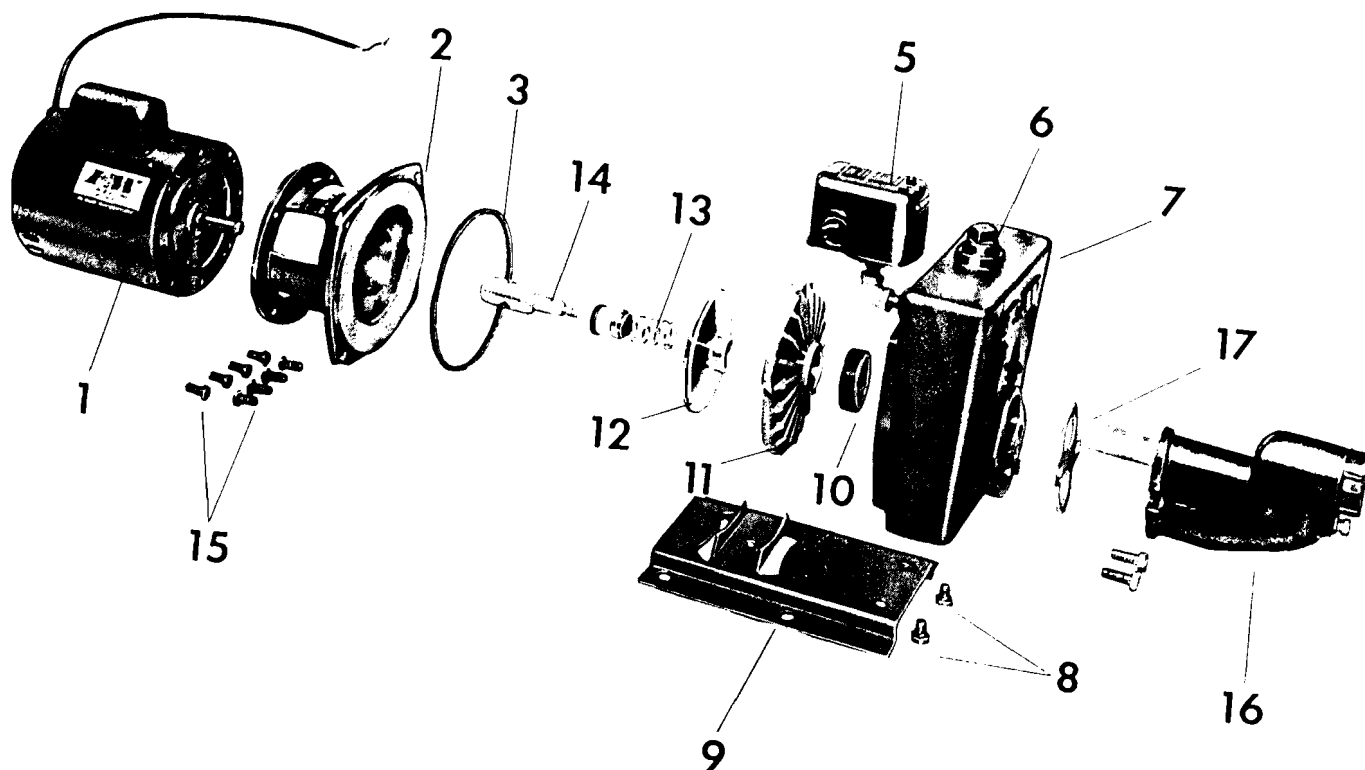


### “CP” SERIES

| HORSEPOWER |                             | 1/3         | 1/2         | 3/4         | 1           | 1-1/2       |
|------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|
| MODEL NO.  |                             | CP03        | CP05        | CP07        | CP10        | CP15        |
| ITEM       | DESCRIPTION                 | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER |
| 1          | Motor (Flatted Shaft)       | 92F103A     | 92F105A     | 92F107A     | 92F110A     | 92F115A     |
| 2          | Mounting Ring               | 132421      | 132421      | 132422      | 132422      | 132422      |
| 3          | Ring, Sq. cut               | 132429      | 132429      | 132429      | 132429      | 132429      |
| 4          | Control Valve               | 132446      | 132446      | 132446      | 132446      | 133383      |
| 5          | Pressure Switch             | 131202      | 132527      | 132527      | 132527      | 132527      |
| 6          | Plug, Priming (1" NPT)      | .           | .           | .           | .           | .           |
| 7          | Body                        | 132418      | 132418      | 132418      | 132418      | 132418      |
| 8          | Cap Screws, 3/8" x 1/2" (2) | .           | .           | .           | .           | .           |
| 9          | Base                        | 132430      | 132430      | 132430      | 132430      | 132430      |
| 10         | Rubber, Diffuser            | 132428      | 132428      | 132428      | 132428      | 132428      |
| 11         | Diffuser                    | 132424      | 132424      | 132425      | 132425      | 132464      |
| 12         | Impeller                    | 126900      | 132411      | 132413      | 132415      | 133282      |
| 13         | Seal, Rotary                | 131100      | 131100      | 131100      | 131100      | 131100      |
| 14         | Shaft                       | 129190      | 129190      | 129190      | 129190      | 131292      |
| 15         | Cap Screws, 3/8" x 3/4" (8) | .           | .           | .           | .           | .           |

\*Standard Hardware Item

## SHALLOW WELL PUMP REPAIR PARTS

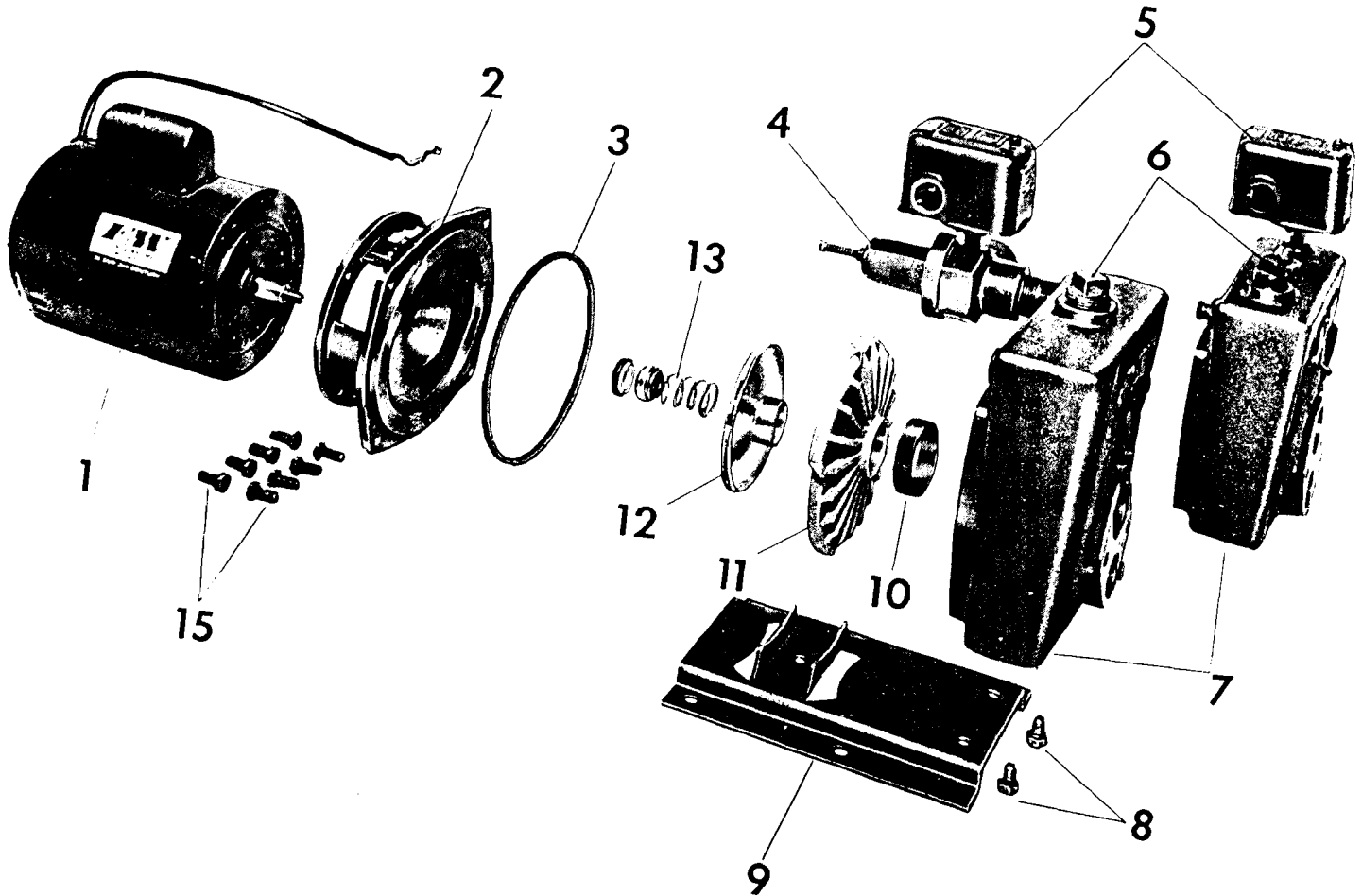


### "CPS" SERIES

| HORSEPOWER |                              | 1/3         | 1/2         | 3/4         | 1           | 1-1/2       |
|------------|------------------------------|-------------|-------------|-------------|-------------|-------------|
| MODEL NO.  |                              | CP03S       | CP05S       | CP07S       | CP10S       | CP15S       |
| ITEM       | DESCRIPTION                  | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER | PART NUMBER |
| 1          | Motor (Flatted Shaft)        | 92F103A     | 92F105A     | 92F107A     | 92F110A     | 92F115A     |
| 2          | Mounting Ring                | 132421      | 132421      | 132422      | 132422      | 132422      |
| 3          | Ring, Sq. cut                | 132429      | 132429      | 132429      | 132429      | 132429      |
| 5          | Pressure Switch              | 132527      | 132527      | 132527      | 132527      | 132527      |
| 6          | Plug, Priming (1" NPT)       | .           | .           | .           | .           | .           |
| 7          | Body                         | 132418      | 132418      | 132418      | 132418      | 132418      |
| 8          | Cap Screws, 3/8" x 1/2" (2)  | .           | .           | .           | .           | .           |
| 9          | Base                         | 132430      | 132430      | 132430      | 132430      | 132430      |
| 10         | Rubber, Diffuser             | 132428      | 132428      | 132428      | 132428      | 132428      |
| 11         | Diffuser                     | 132424      | 132424      | 132425      | 132425      | 132464      |
| 12         | Impeller                     | 126900      | 132411      | 132413      | 132415      | 133282      |
| 13         | Seal, Rotary                 | 131100      | 131100      | 131100      | 131100      | 131100      |
| 14         | Shaft                        | 129190      | 129190      | 129190      | 129190      | 131292      |
| 15         | Cap Screws, 3/8" x 3/4" (8)  | .           | .           | .           | .           | .           |
| 16         | Shallow Well Ejector Package | SW03E-1626  | SW05E-1630  | SW07E-1432  | SW10E-1334  | SW15E-1238  |
| 17         | Ejector Gasket               | 130969      | 130969      | 130969      | 130969      | 130969      |

\*Standard Hardware Item

## CONVERTIBLE PUMP REPAIR PARTS

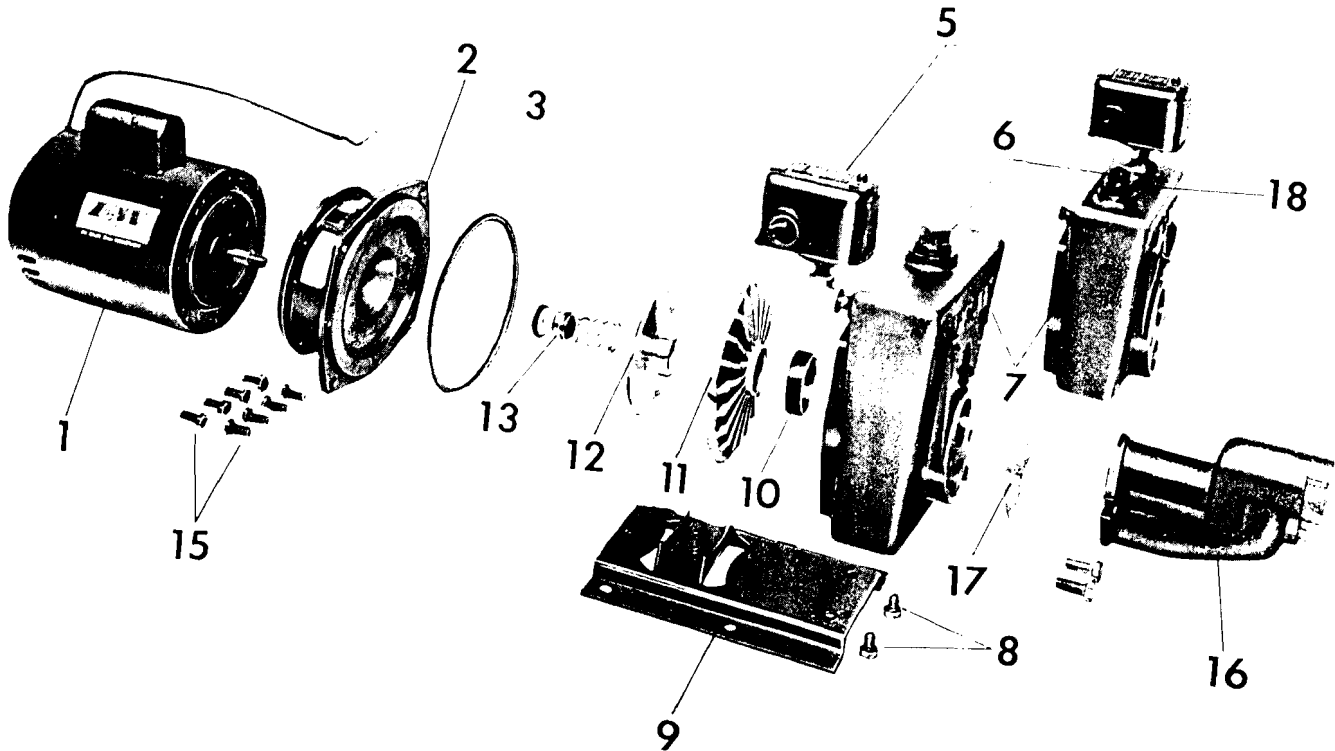


### “CPJ” SERIES

| HORSEPOWER |                             | 1/3          | 1/2          | 3/4         | 1           | 1-1/2       |
|------------|-----------------------------|--------------|--------------|-------------|-------------|-------------|
| MODEL NO.  |                             | CPJ03        | CPJ05        | CPJ07       | CPJ10       | CPJ15       |
| ITEM       | DESCRIPTION                 | PART NUMBER  | PART NUMBER  | PART NUMBER | PART NUMBER | PART NUMBER |
| 1          | Motor (Nema Thread)         | 92J503A      | 92J105A      | 92J107A     | 92J110A     | 92J115A     |
| 2          | Mounting Ring               | 133835       | 133835       | 133837      | 133837      | 133837      |
| 3          | Ring, Sq. cut               | 132583       | 132583       | 132429      | 132429      | 132429      |
| 4          | Control Valve               | 124330       | 124330       | 132446      | 132446      | 133383      |
| 5          | Pressure Switch             | 131202       | 132527       | 132527      | 132527      | 132527      |
| 6          | Plug, Priming               | • (3/4" NPT) | • (3/4" NPT) | • (1" NPT)  | • (1" NPT)  | • (1" NPT)  |
| 7          | Body                        | 132582       | 132582       | 132418      | 132418      | 132418      |
| 8          | Cap Screws, 3/8" x 1/2" (2) | •            | •            | •           | •           | •           |
| 9          | Base                        | 132430       | 132430       | 132430      | 132430      | 132430      |
| 10         | Rubber, Diffuser            | 132428       | 132428       | 132428      | 132428      | 132428      |
| 11         | Diffuser                    | 132424       | 132424       | 132425      | 132425      | 132464      |
| 12         | Impeller                    | 127960       | 132613       | 134137      | 134138      | 132417      |
| 13         | Seal, Rotary                | 131100       | 131100       | 131100      | 131100      | 131100      |
| 15         | Cap Screws, 3/8" x 3/4" (8) | •            | •            | •           | •           | •           |

\*Standard Hardware Item

# SHALLOW WELL PUMP REPAIR PARTS



## “CPJS” SERIES

| HORSEPOWER |                              | 1/3          | 1/2          | 3/4         | 1           | 1-1/2       |
|------------|------------------------------|--------------|--------------|-------------|-------------|-------------|
| MODEL NO.  |                              | CPJ03S       | CPJ05S       | CPJ07S      | CPJ10S      | CPJ15S      |
| ITEM       | DESCRIPTION                  | PART NUMBER  | PART NUMBER  | PART NUMBER | PART NUMBER | PART NUMBER |
| 1          | Motor (Nema Thread)          | 92J503A      | 92J105A      | 92J107A     | 92J110A     | 92J115A     |
| 2          | Mounting Ring                | 133835       | 133835       | 133837      | 133837      | 133837      |
| 3          | Ring, Sq. cut                | 132583       | 132583       | 132429      | 132429      | 132429      |
| 5          | Pressure Switch              | 132527       | 132527       | 132527      | 132527      | 132527      |
| 6          | Plug, Priming                | • (3/4" NPT) | • (3/4" NPT) | • (1" NPT)  | • (1" NPT)  | • (1" NPT)  |
| 7          | Body                         | 132582       | 132582       | 132418      | 132418      | 132418      |
| 8          | Cap Screws, 3/8" x 1/2" (2)  | •            | •            | •           | •           | •           |
| 9          | Base                         | 132430       | 132430       | 132430      | 132430      | 132430      |
| 10         | Rubber, Diffuser             | 132428       | 132428       | 132428      | 132428      | 132428      |
| 11         | Diffuser                     | 132424       | 132424       | 132425      | 132425      | 132464      |
| 12         | Impeller                     | 127960       | 132613       | 134137      | 134138      | 132417      |
| 13         | Seal, Rotary                 | 131100       | 131100       | 131100      | 131100      | 131100      |
| 15         | Cap Screws, 3/8" x 3/4" (8)  | •            | •            | •           | •           | •           |
| 16         | Shallow Well Ejector Package | SW03E-1626   | SW05E-1630   | SW07E-1432  | SW10E-1334  | SW15E-1238  |
| 17         | Ejector Gasket               | 130969       | 130969       | 130969      | 130969      | 130969      |
| 18         | Plug w/Gasket                | 128794       | 128794       |             |             |             |

\*Standard Hardware Item

## **RESPONSIBILITY OF THE INSTALLER OR USER**

- 1 - INSTALL IN ACCORDANCE WITH INSTRUCTIONS OUTLINED HEREIN.**
- 2 - INSTALL JET & CENTRIFUGAL PUMPS AND/OR SYSTEMS IN AN AREA PROTECTED FROM FLOODING, RAIN, SPRINKLER SPRAY, DUST, SNOW AND FREEZING.**

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### **IMPORTANT SAFETY WARNING**

All submersible pumps installed in an open body of water such as a pond, lake, river or open tank require an additional grounding wire. This grounding wire must be connected to a motor mounting stud bolt and run to and terminated at the power supply neutral. This grounding procedure should be followed explicitly whenever human beings, animals or aquatic life can get in the immediate area of the pump motor.

In drilled well installations, connect above ground metal plumbing to the power supply ground per National Code Article 250-80 to prevent electrical shock hazard.

In each case, the grounding wire should be stranded copper wire, as large or larger than the motor lead cable size required.

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