

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-20931

Exam Date: 8/7/2012

1. Current Owner: JOHN D BENNETT
2095 HWY 46
GOODING ID 83330
(208)934-4665

And

CAROLE R BENNETT
2095 HWY 46
GOODING ID 83330
(208)934-4665

2. Accompanied by: Not accompanied by owner, but had verbal permission to conduct the field exam.

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None (37-10271 stockwater and domestic use from a different well)
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE1/4SE1/4 Sec. 18, Twp 06S, Rge 15E, B.M. GOODING County

Method of Determination: GPS Garmin Map 76S, and Arc Map 2009.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	15E	18																4.3	4.3

Total Acres: 4.3

Method of Determination: GPS Garmin Map 76S, and Arc Map 2009. The legal description was confirmed by the Gooding County records, showing the property description as being 5.8 acres total in the SESE (a copy is in the file). ****For this reason no amendment was made, since the QQ designated by Arc Map 2009 initially put 0.3 acres into the NENE quarter-quarter (which may be due to GCDB updates and shifting).

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
A0018543	Sta Rite	5	H89H model #CP4J02C04		3 inch discharge, 40 psi

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

D. FLOW MEASUREMENTS

- Measurements:

3/19/2003 Letter from Steve Waugh, Bob's Electric Motors indicated 60 gpm (0.13 cfs)

Theoretical (static is an average taken from well logs in the location, since there is no well log available for this well):
 $(8.8 \times 5\text{Hp} \times 0.7 \text{ eff}) / [230 \text{ ft static} + 940 \text{ psi} \times 2.31] = 0.095 = 0.10 \text{ cfs}$

Physical Measurement (5-Gallon Measurement): average from 3 measurements was 5.5 sec/5 gallons
 $[5 \text{ gallon} \times 60 \text{ seconds} / 5.5 \text{ seconds}] \times 0.00223 = 0.12 \text{ cfs}$

$4.3 \text{ acres} \times 0.03 \text{ cfs} = 0.129 = 0.13 \text{ cfs}$

RECOMMEND: 0.12 cfs

E. VOLUME CALCULATIONS

- Volume Calculations for Irrigation:

$$V_{\text{I.R.}} = (4.3 \text{ Acres Irrigated}) \times (4.0 \text{ Irrigation Requirement}) = 17.2 \text{ af}$$

$$V_{\text{D.R.}} = [0.12 \text{ Diversion Rate (cfs)}] \times (246 \text{ Days in Irrigation season}) \times 1.9835 = 58.5 \text{ af}$$

$$V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = 17.2 \text{ af}$$

F. NARRATIVE/REMARKS/COMMENTS

The POD is located within a pump house located northwest of the house (ID Tag No. A0018543, located on the discharge line). The pre-1984 well is 275 ft deep, (no well drillers report on file with the department or with the current owner). It has an approximate static of 230 ft (taken from an average of well logs in the area); a 6 inch casing.; the casing is extended 18 inches above ground level; a Sta Rite 5 Hp serial No. H89H, 1 ph, model No. CP4J02C04 submersible pump (no additional information found online on this pump); a 3 inch discharge to a 3 inch mainline with risers for handline, where 4 rainbird nozzles are run at 1 time at 40 psi. Inside the pump house are (2)-@3II Mate WM25WB pressure tanks. There is no supplemental water used for irrigation on this property. In a 3/19/2003 letter found in the file from Steve Waugh, Bobs Electric Motors, it stated the depth of the well to be approximately 275 ft, with a 5 Hp pump producing at least 60 gpm (0.13 cfs). At the time of the field examination, a 5-gallon bucket measurement averaged 5.5 sec/5 gallon (0.12 cfs), indicating the capacity of the system. For this reason 0.12 cfs will be recommended for licensing.

The POU is located 2 miles south of the Hwy 26/46 interchange, on the west side of Hwy 46.

Have conditions of permit approval been met? ☒X_Yes ☐No

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.120 CFS	17.20 AF
	<u>Totals:</u>	0.120 CFS	17.20 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

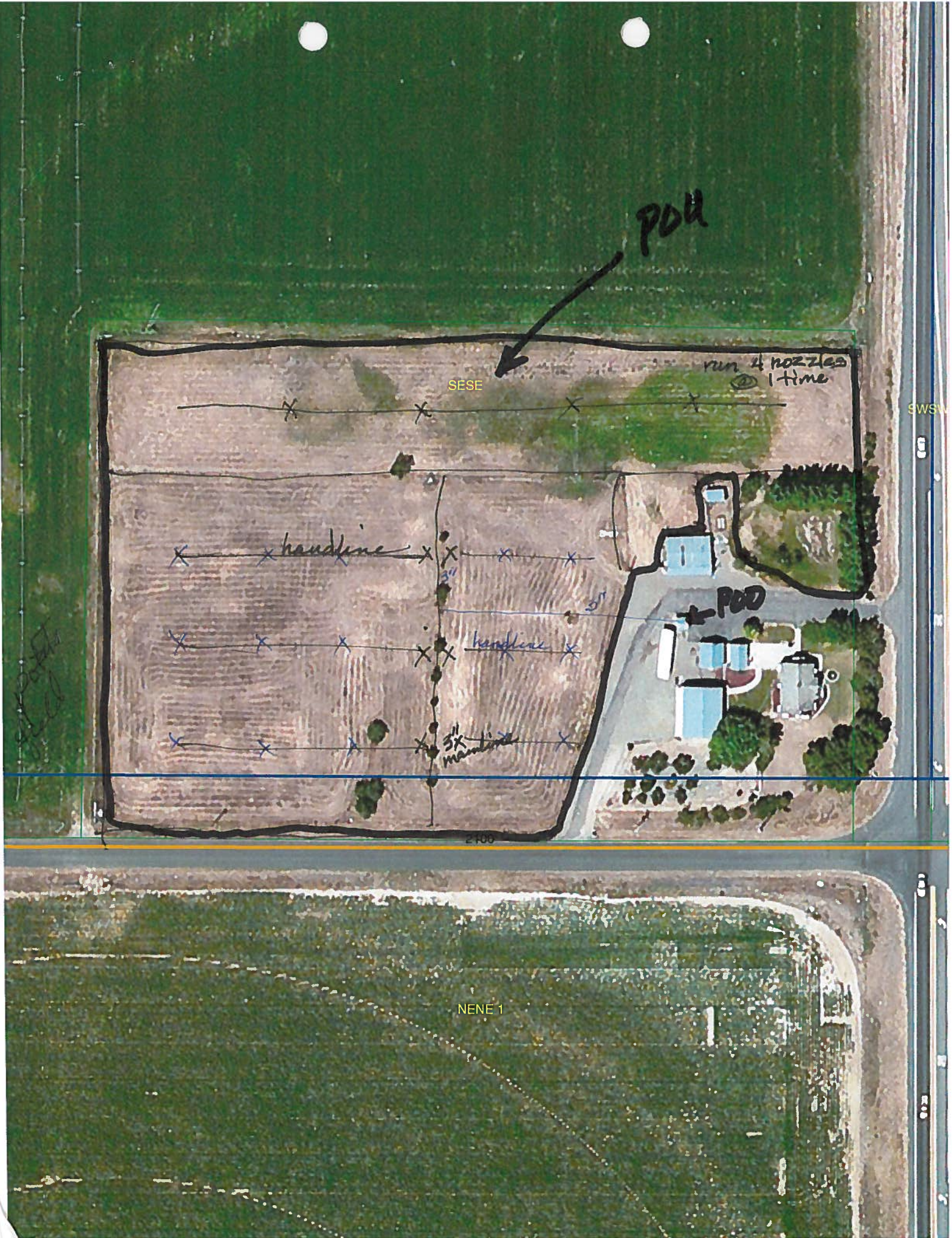
H. AUTHENTICATION

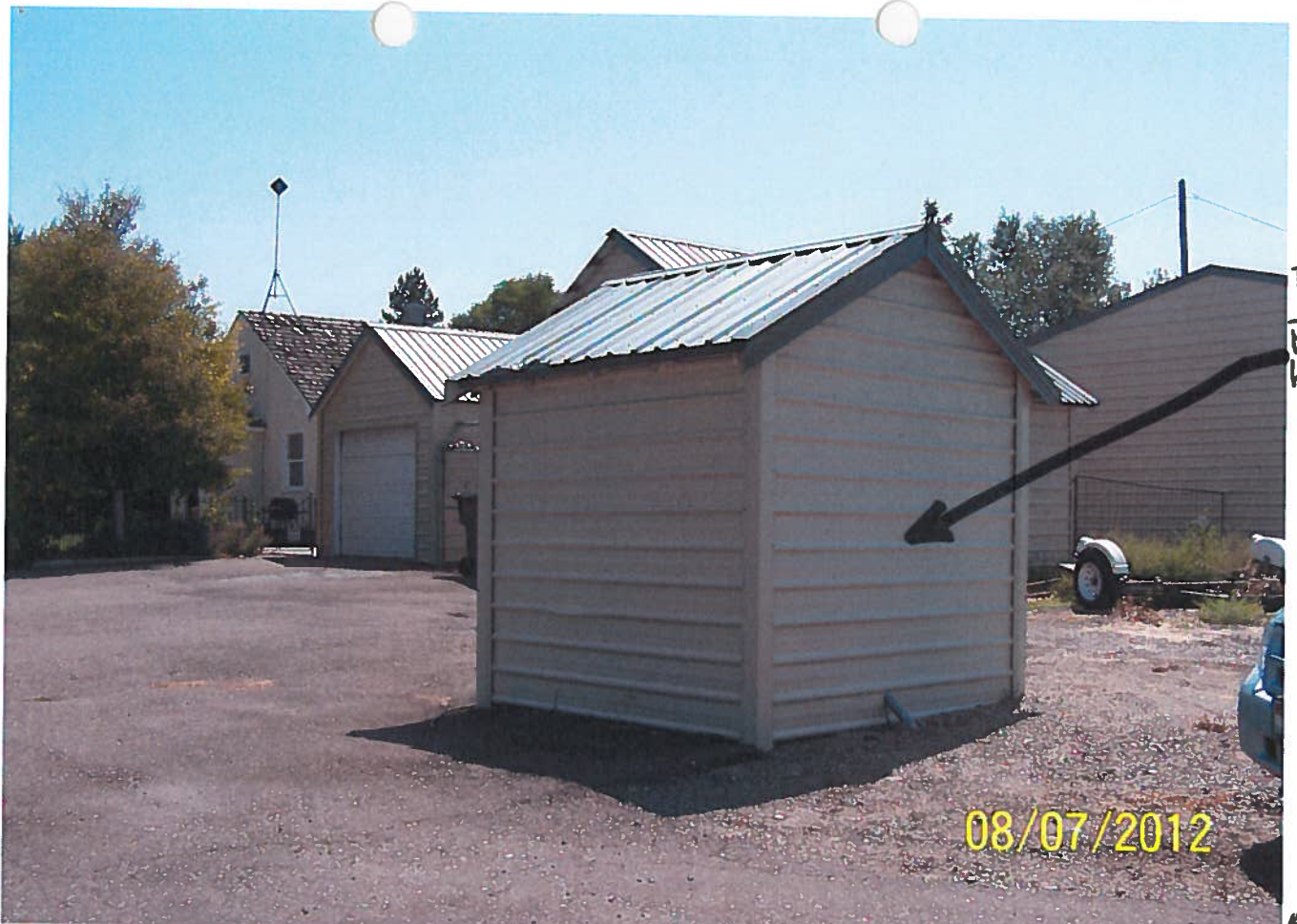
Field Examiner's Name



Date







POD
pump
house

08/07/2012

A001854:



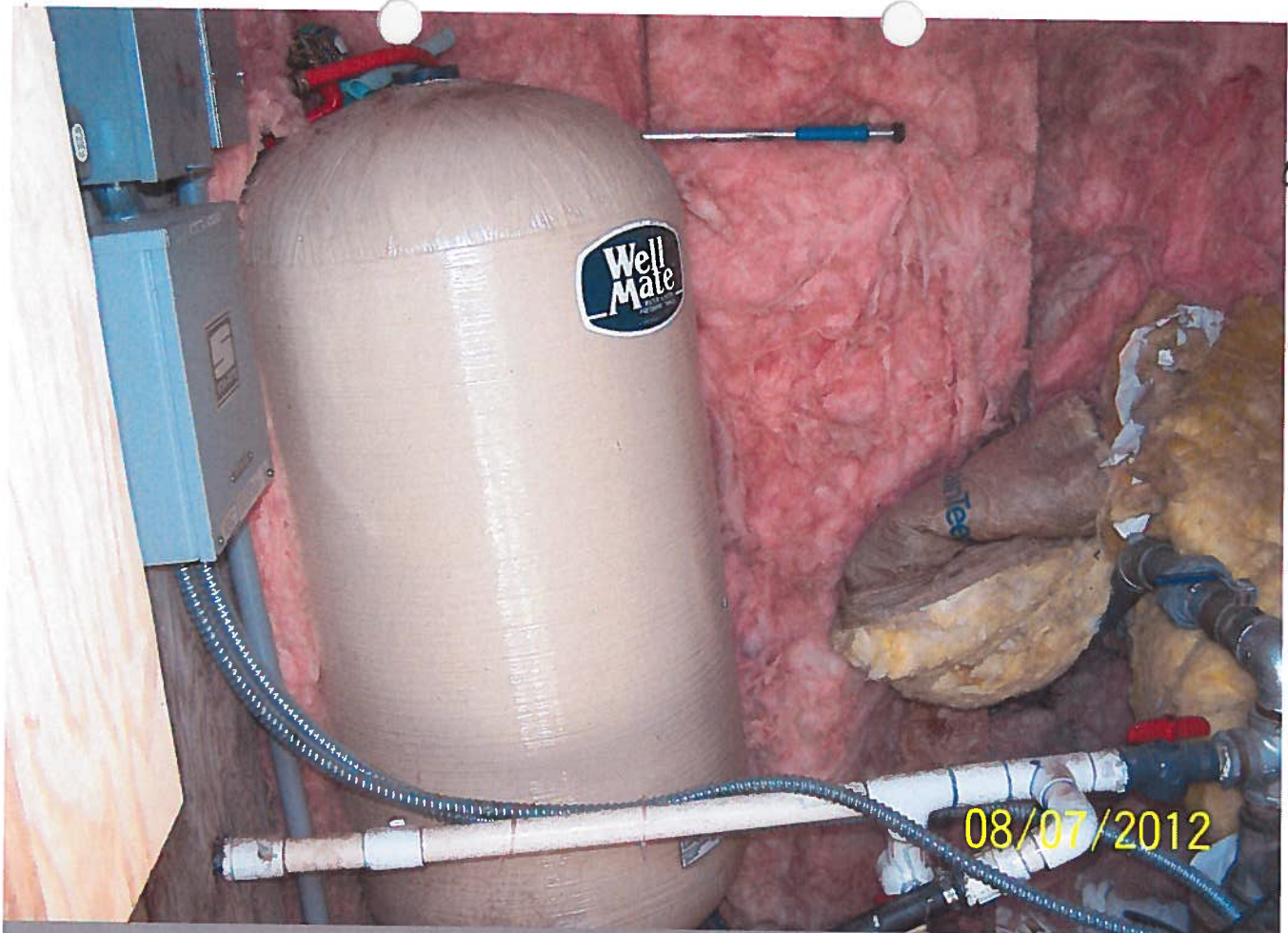
POD
6" casing
18" above
ground
level

Sta Rite
54p
ser# K891
1 PH
model#
CP450266
3" discharge
40 psi,
275' deep
3" mainline
to handling
(4) nozzle
run at
1 time,
40 psi

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S. Hernandez



VOLTS 220 HP 5 SF 120 HZ 60 PH 1 CODE 1
MAX 28.1 RPM 2450 SER H29H MOD CP41120-04
AMP 28.1
CONT. DUTY STA-RITE INDUSTRIES INC. DELAVAN, WIS. U.S.A.

E61535

ACCEPTABLE FOR OUTDOOR USE
WARNING: TO REDUCE RISK OF ELECTRIC SHOCK
1. SEE INSTRUCTION MANUAL FOR PROPER INSTALLATION
2. REMOVE SUPPLY VOLTAGE BEFORE SERVICING

P27-94

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S. Hemenway



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