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OCT 28 2002

Permit No: 65-22377

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Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22377

Exam Date: 10/1/2002

1. Current Owner: REX LANHAM
2630 HWY 21
BOISE ID 83716
(208)939-8443

2. Accompanied by: Rex

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

UNNAMED STREAM

TRIBUTARY

PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

UNNAMED STREAM

L3 SE1/4NW1/4

Sec. 11, Twp 06N, Rge 02W, B.M.

GEM County

Method of Determination: GPS, Field Exam, Arc View

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
06N 02W 11	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	35.0
			5.0		8.5			21.5									
			L 2					L 3									

Total Acres: 35

Method of Determination:

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

4.

<u>Well or Diversion 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 Size</u>
	John Deer	90	Diesel Tractor	Berkeley	B3KRPM CCW, H 1892

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Pressure Gage						
Nozzle Chart			Rainbirds		9/64ths inch, .7 inch	

2. Measurements: 40 PSI average on 9/64ths inch nozzles. Fifty-three 9/64ths inch sprinklers were operating, along with two .7 inch big gun sprinklers. I could only measure the average pressure on the wheel lines. Denny White, manager of Valley Pump in Emmett, told me that the same pressure can be assumed for the big gun sprinklers since they were operating off the same mainline.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

9/64ths inch nozzles @ 40 psi = 3.74 gpm/nozzle x 53 = 198 gpm (wheel lines)
 .70 inch nozzles @ 40 psi = 93 gpm x 2 = 186 gpm (big guns)

198 + 186 = 384 gpm = .86 cfs system capacity

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 35 \times 4.5 = 157.5 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .70 \times 260 \times 1.9835 = 361 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 157.5 \text{ afa}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

At the time of the exam, a 90 hp diesel tractor and a portable Berkeley pump were being used to divert water from an unnamed stream for irrigation use on 35 acres of pasture. Water is applied to acres North of the stream by using a 6 inch portable mainline and wheel lines equipped with 9/64ths inch sprinkler nozzles. 53 sprinklers were operating at the time of the exam. Water is applied to acres South of the stream by using 6 inch portable mainline and big gun sprinklers equipped with .7 inch nozzles. Two were operating at the time of the exam. A T connection in the mainline allows the water to be used on both sides of the stream simultaneously. The portability of the pump, mainline and sprinklers allows the applicant to irrigate with better consistency than possible with a gravity system due to the various terrain of the lands. The applicant stated that he may move the pump location up and down the stream at various times, but would stay within the boundaries of the recommended P/D of Lt 3 SENW S11. The unnamed stream appears to begin in the NWSWNW S11, originating from spring sources. Surrounding irrigated lands, mostly owned by applicant, have Payette River decreed rights. No other rights are used on the 35 acres recommended for licensing under this permit.

Have conditions of permit approval been met? ____Yes ____X____No No measuring device was found. The pump and motor are portable and can be easily removed.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.700 CFS	157.5 AFA
<u>Totals:</u>		0.700 CFS	157.5 AFA

2. Recommended Amendments

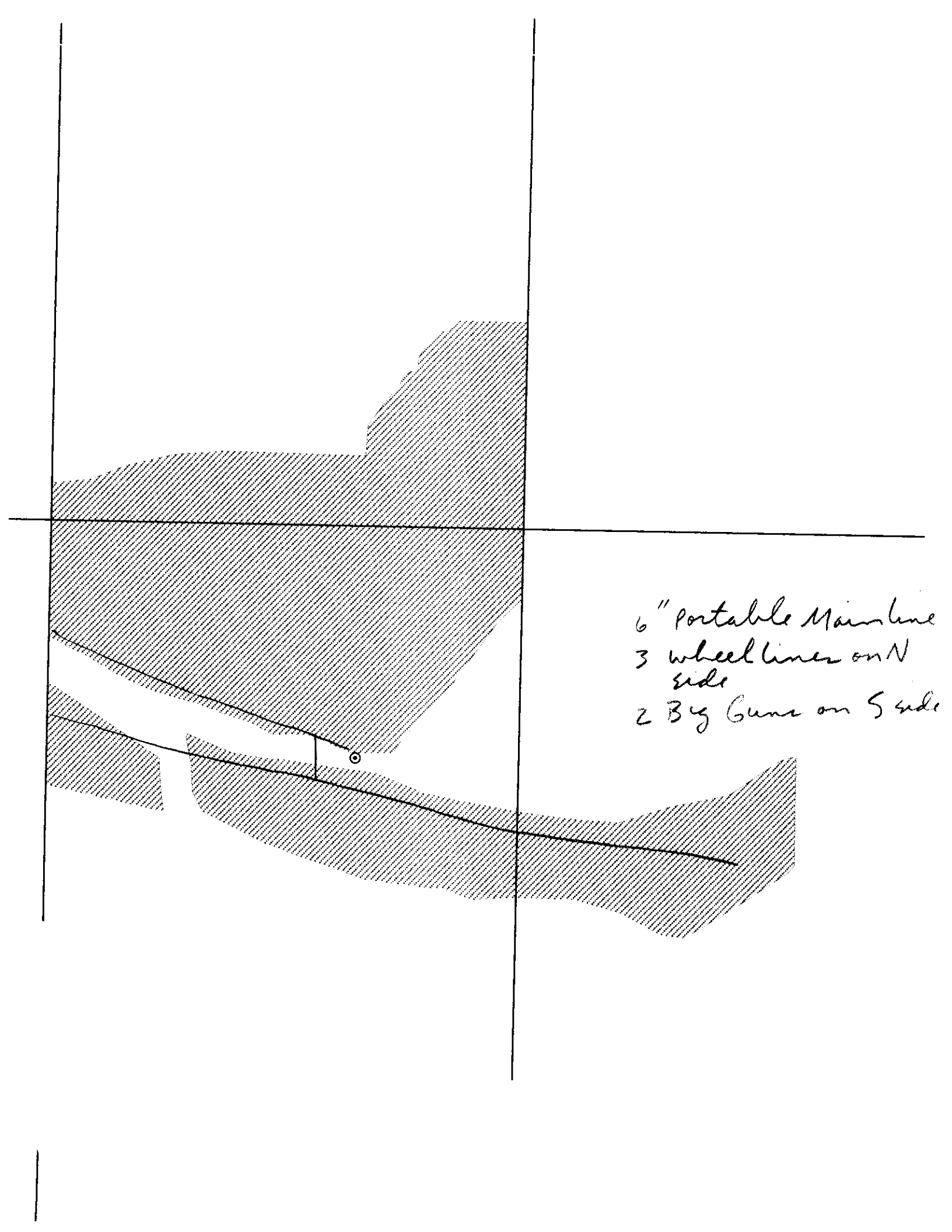
____Change P.D. as reflected above ____Add P.D. as reflected above ____None

____Change P.U. as reflected above ____X____Add P.U. as reflected above ____Other

I. AUTHENTICATION

Field Examiner's Name Lon Guaner Date 10/18/02

Reviewer _____ Date _____

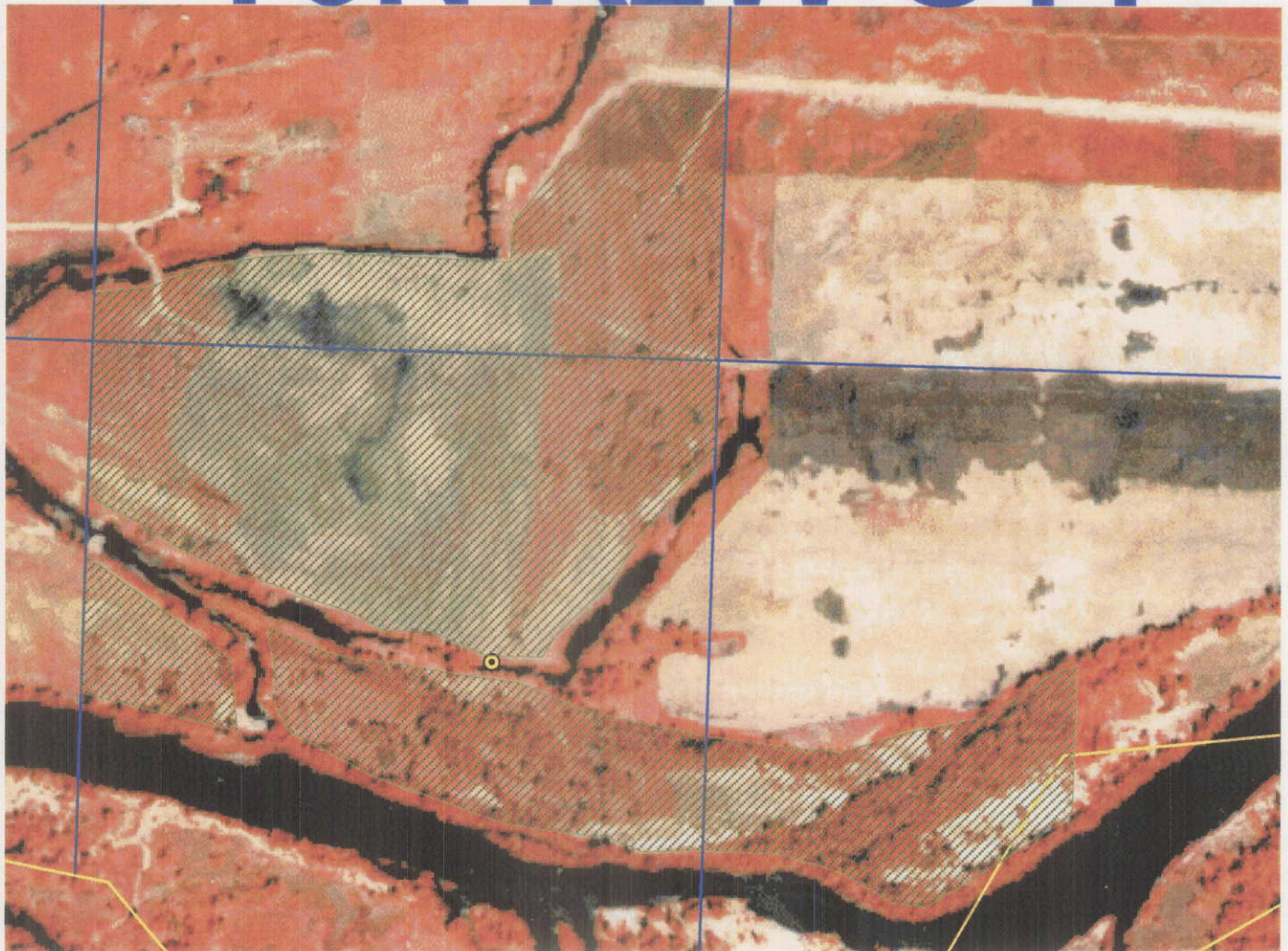


A hand-drawn map on a grid. A large, irregularly shaped area is shaded with diagonal lines. This shaded area is divided into two parts by a horizontal line. The upper part is larger and more complex, while the lower part is a long, narrow strip. A small circle with a dot inside is located on the boundary between the two shaded regions. A line segment extends from this circle towards the bottom right. Handwritten notes are present on the right side of the map.

6" Portable Main line
3 wheel lines on N
side
2 Big Guns on S side

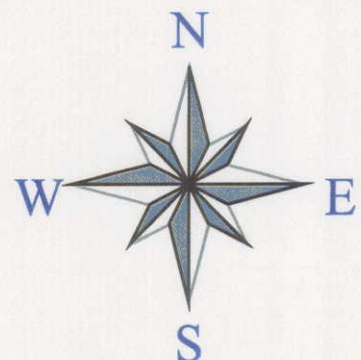
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T6N R2W S11

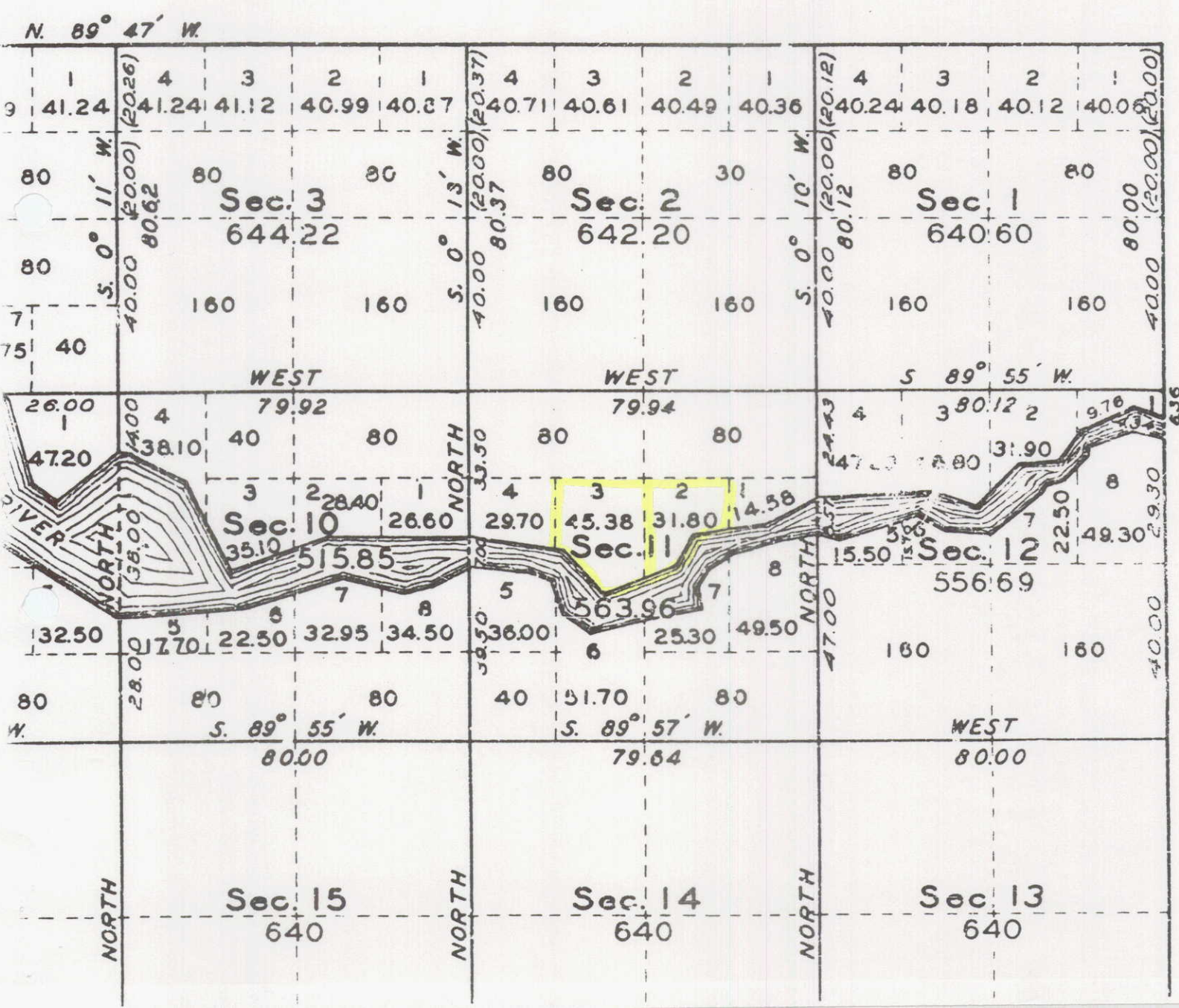


0.1 0 0.1 0.2 Miles

-  P/U
-  P/D
-  1/41/4 Lines
-  Section Lines



2 WEST OF THE BOISE MERIDIAN, IDAHO.





Portable Pump
& Tractor

wheel line
sprinklers



10 1'02



Big Gun
Sprinklers

10 1'02