

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9643

Exam Date: 6/2/2008

1. Current Owner: BITTERROOT WATER CO INC
PO BOX 2306
HAYDEN LAKE ID 83835
(208)660-2560
2. Accompanied by: KEN RICKEL
Phone No: SAME AS ABOVE
Address: SAME AS ABOVE
Relationship to Permit Holder: OWNER

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-9644
2. Other water rights with the same point of diversion: 95-9644

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW¼SW¼ Sec. 29, Twp 53N, Rge 03W, B.M. KOOTENAI County

GROUND WATER SW¼SW¼ Sec. 29, Twp 53N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
53N	03W	20																	
53N	03W	28									X	X	X						
53N	03W	29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
53N	03W	30	X			X													
53N	03W	32	X	X		X									X			X	
53N	03W	33					X												

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals		
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>			
53N	03W	20									X				X				X		
53N	03W	28									X	X	X								
53N	03W	29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
53N	03W	30	X			X															
53N	03W	32	X	X		X									X					X	
53N	03W	33					X														

Method of Determination:

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

4.

<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>
	See Attached				

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: SEE ATTACHED

E. FLOW CALCULATIONS

Measured Method:

____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

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

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

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

2. Volume Calculations for Other Uses:

$$\begin{array}{r} 120 \times .6 = 72 \\ 40 \times 3 = 120 \\ \hline 192 \text{ AF} \end{array}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUNDWATER FOR MUNICIPAL AND FIRE PROTECTION. THE PERMIT WAS FOR DOMESTIC, IRRIGATION AND FIRE PROTECTION BUT WILL BE AMENDED TO MUNICIPAL. THERE ARE 2 POINTS OF DIVERSION IN THE SAME QQ. THE PERMIT WAS ONLY FOR 1 POINT OF DIVERSION BUT WILL BE AMENDED TO 2. WELL #1 HAS A 25 HP PUMP THAT PRODUCES 0.43 CFS AND WELL #2 HAS A 20 HP PUMP THAT PRODUCES 0.32 CFS FOR A TOTAL OF 0.75 CFS. FROM THE WELLS THE WATER IS PUMPED INTO A STORAGE TANK WHERE BOOSTER PUMPS DELIVER THE WATER TO THE SYSTEM. THE PLACE OF USE IS THE SERVICE AREA OF THE BITTERROOT WATER COMPANY. THIS SYSTEM HAS AN OVERLAP WITH WATER RIGHT 95-9644.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	0.750 CFS	192.00 AF
FIRE PROTECTION	01/01 to 12/31	0.750 CFS	
<u>Totals:</u>		0.750 CFS	192.00 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

I. AUTHENTICATION

Field Examiner's Name

Date

Reviewer

Date

[Signature]
[Signature]

1-9-09

1/26/09



Well #2

~~9519543~~

95-9643

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED
MAR 24 1993

**USE TYPEWRITER OR
BALLPOINT PEN**

WELL DRILLER'S 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



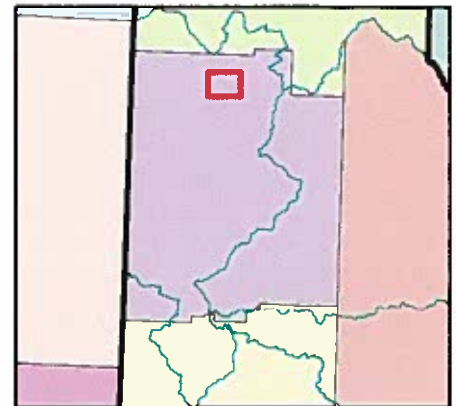
Bitterroot Water Co Inc

Water Rights: 95-9643

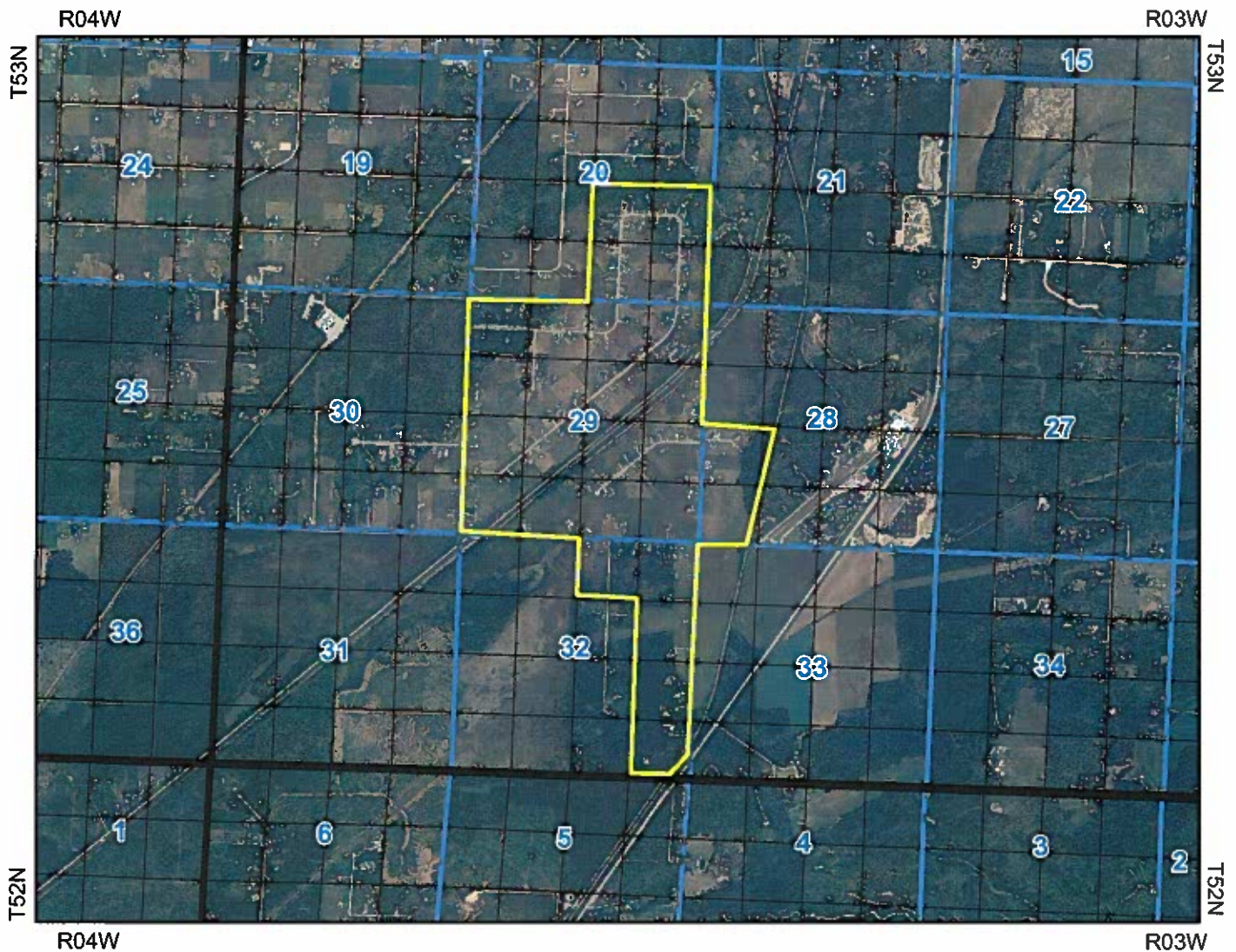
Legend

-  Service Area
-  State Outline
-  Townships
-  PLS Sections
-  Quarter Quarters

Service Area Boundary
GIS Place of Use Illustration



Kootenai County
IDWR Basin 95



Prepared by Chad Goodwin
On January 09, 2009
2004 Aerial Photography

0 0.5 1 2 Miles

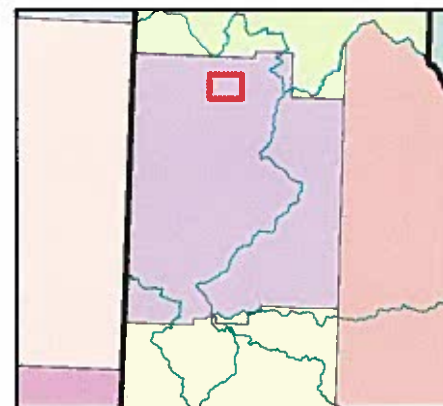


Idaho Department of Water Resources

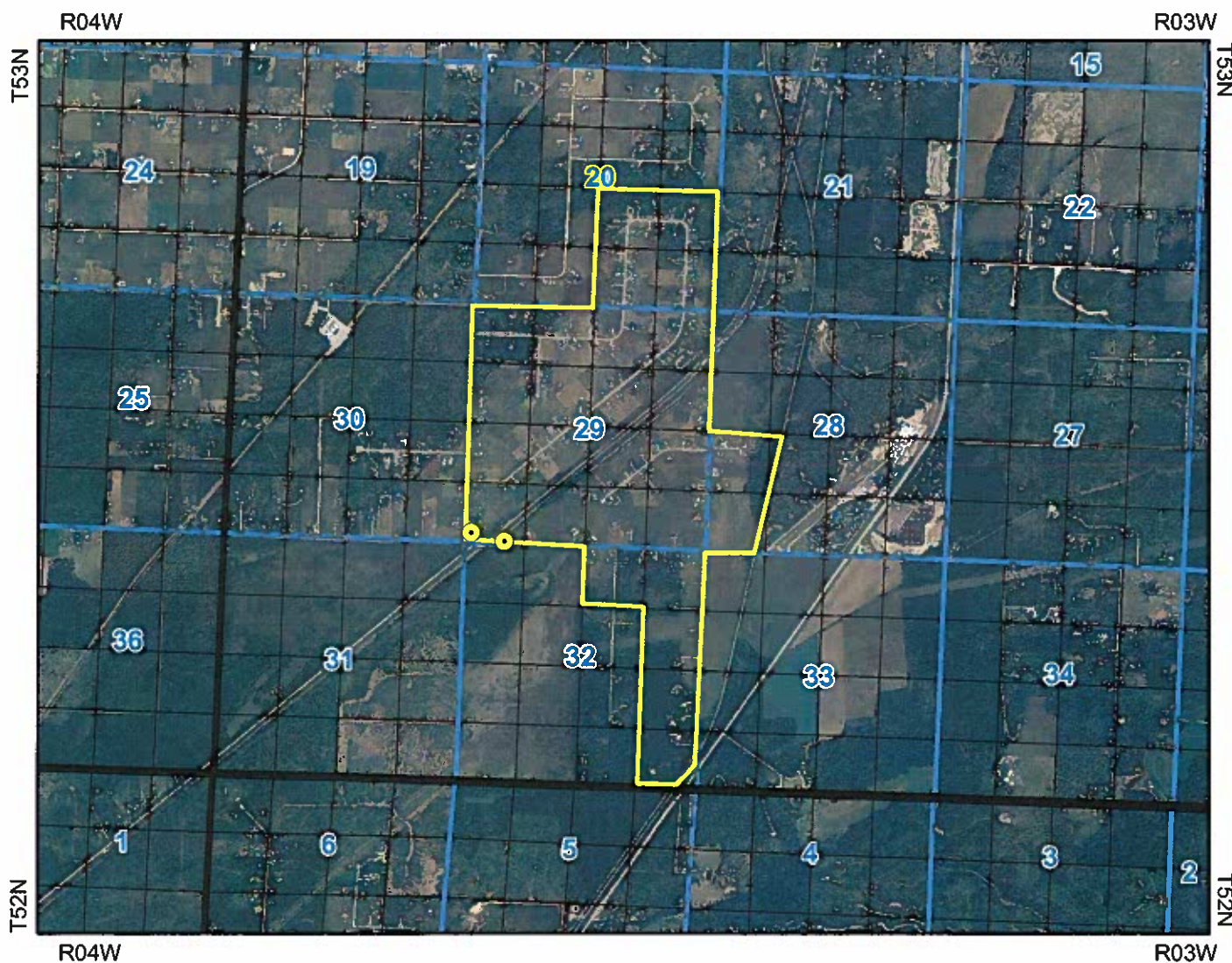
Water Right
95-9643
(FIRE PROTECTION)

Legend

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Kootenai County
IDWR Basin 95



Prepared by Chad Goodwin
On January 09, 2009
2004 Aerial Photography

0 0.5 1 2 Miles

WATER RIGHT No. 95-9643 WELL #1

Q = 0.426 cfs 191.4 gpm

WATER RIGHT No. 95-9643 WELL #2

Q = 0.313 cfs 140.5 gpm



BOOSTER PUMP
CONTROL PANEL.JPG



BOOSTER PUMP
HOUSE.JPG



BOOSTER PUMPS FROM
STORAGE.JPG



POINT OF DIVERSION
WELL #1.JPG



POINT OF DIVERSION
WELL #2.JPG



PUMP HOUSE WELL
#1.JPG



PUMP HOUSE WELL
#2.JPG



STORAGE.JPG

95- 9643



95-9643





95-9643





95-9643





95-9643

