

Estimating Conveyance Loss using the Worstell Method

Claim No.

Formula: $S = (w)(i)(0.0667)$

Where: S = loss in cfs per mile

w = top width of the high water mark in feet

i = loss rate in feet per day (see Table)

Type of soil	i (ft/day)
medium clay loam	0.5 - 1.5
impervious clay	0.5
medium soils	1.0
somewhat pervious soils	1.5 - 2.0
gravels	2.5 - 5.0

Worksheet:

w = 3' assumed

i = 1.0 ft/day

ditch length (mi.) = $1,630' = 0.31$ miles

Conveyance Loss:

$$S = (3)(1)(0.0667) = 0.20 \text{ cfs/mile}$$

Loss = 0.06 cfs/mile

$$0.20 \text{ cfs/mile} \times 0.31 \text{ miles} = 0.06 \text{ cfs}$$

$$(3.1 \text{ Ac})(0.02 \text{ cfs/Ac}) = 0.07 \text{ cfs irrigation}$$

$$\text{ditch loss} = +0.06 \text{ cfs}$$

$$\hline 0.13 \text{ cfs}$$

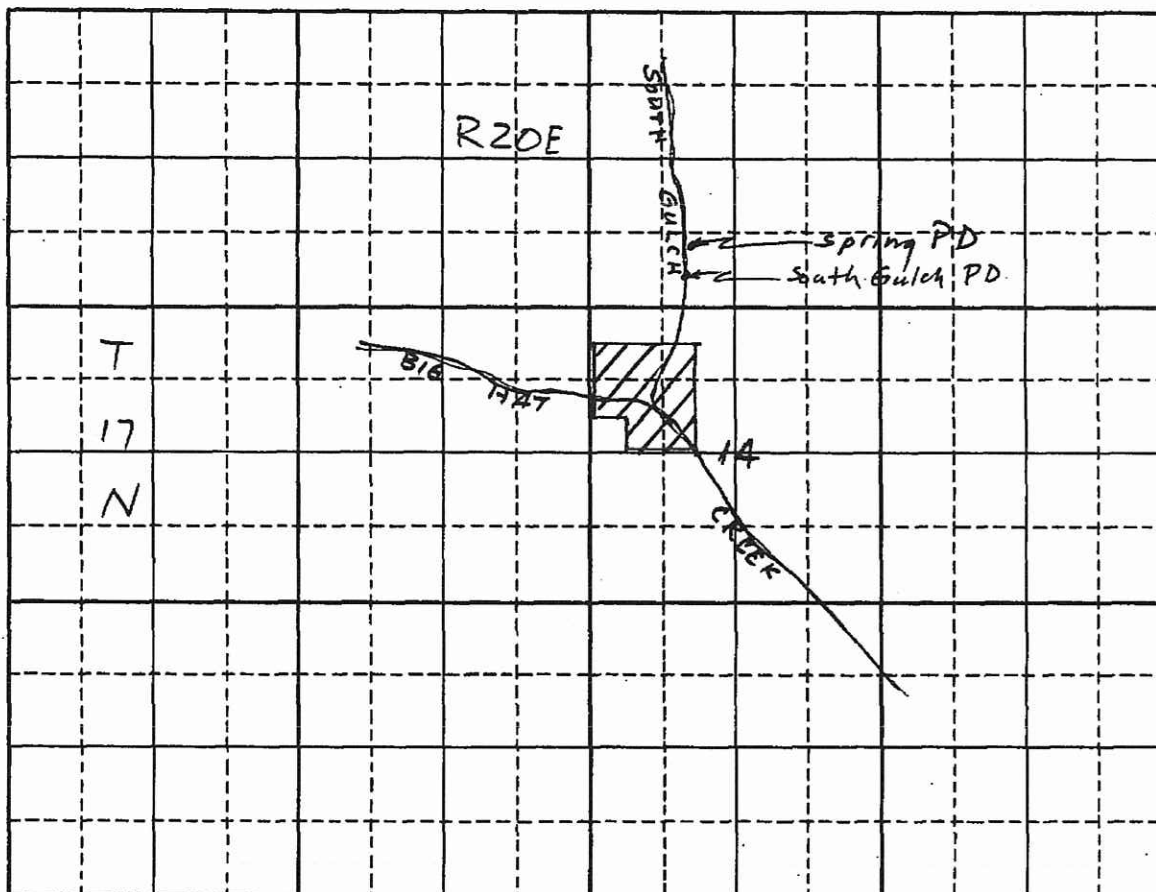
$$\text{state Allocation } 0.02 \text{ cfs stockwater}$$

$$\hline 0.15 \text{ cfs Total}$$

Claimed = 1.60 cfs

Recommended = 0.15 cfs

(8) Remarks _____



Scale: 2 Inches equal 1 mile.

Map should show the location of the point of diversion and the place of use of the water by 40-acre subdivisions, section, township and range of the public land survey system.

State of Idaho)
County of BONNEVILLE) ss.

Be it known that the undersigned, being duly sworn, deposes and says that he, she, they subscribed the foregoing claim to a water right, together with all attached information, and that the matters and facts therein are true to the best of the affiants knowledge.

Sworn to before me this 8th day of MARCH, 1976

Edward H. Roberts
(Claimant)

Ronald D. Carter
Notary Public
Residing at IDAHO FALLS

My commission expires 2/19/78

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Received by <u>CW</u>	Date <u>3-08-76</u>	Exception filed by:	Forwarded to	Date
Prelim. check by <u>Inf</u>	Date <u>3/8/76</u>		claimant by:	
\$10.00 fee received by <u>CW</u>	Date <u>3-08-76</u>			
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