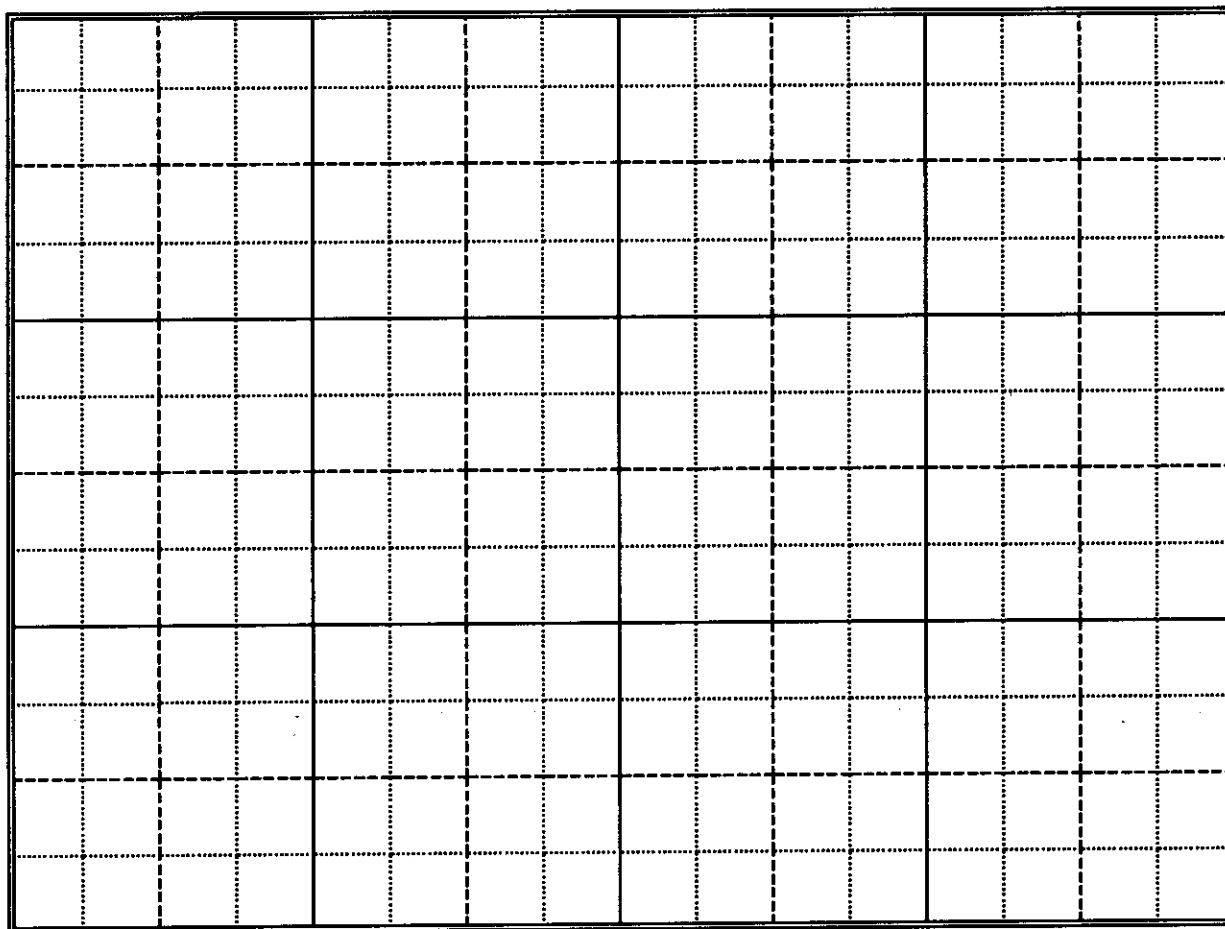


[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.d. as applicable. *SEE PHOTOS + MAP*



Scale: 1" = _____

____ Copy of USGS Quadrange Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
AA METER				090127		

2. Measurements: 1.61 cfs Recommend Licensing @ 5.00 cfs

E. NARRATIVE/REMARKS/COMMENTS

BELOW POND ON JESSIE CREEK, CREEK WATER IS
DIVERTED INTO A 14" DIAMETER BURIED PIPELINE
WHICH SUPPLIES WATER TO 3 STORAGE PONDS; EXCESS
WATER IS DIVERTED BACK TO JESSIE CREEK.

WATER IS DIVERTED TO CITY WATER TREATMENT AS
NEEDED.

APPROXIMATE.

INTAKE ELEVATION 4512

POND ELEVATION 4384

128' DROP

JESSIE CREEK WAS AT LOWEST FLOW TIME OF YEAR AND
HAD NOT RECOVERED FROM 7 YRS OF DROUGHT.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

$$Q = 1.61 \text{ CFS}$$

*STREAM AT LOW FLOW — FOLLOWING DROUGHT YEARS***G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS*WATER
HIGH ₁ STREAM FLOW IN EXCESS OF 5.0 CFS.*

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>MUNICIPAL</u>	<u>1/1</u>	<u>12/31</u>	<u>5.0</u>	
Totals:			<u>5.0 CFS</u>	

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. AUTHENTICATIONField Examiner's Name SIMPKINS Date 1/30/96Reviewer [Signature] Date 2/7/96

SEAL

75-07563

Water Right No.
(If applicable)

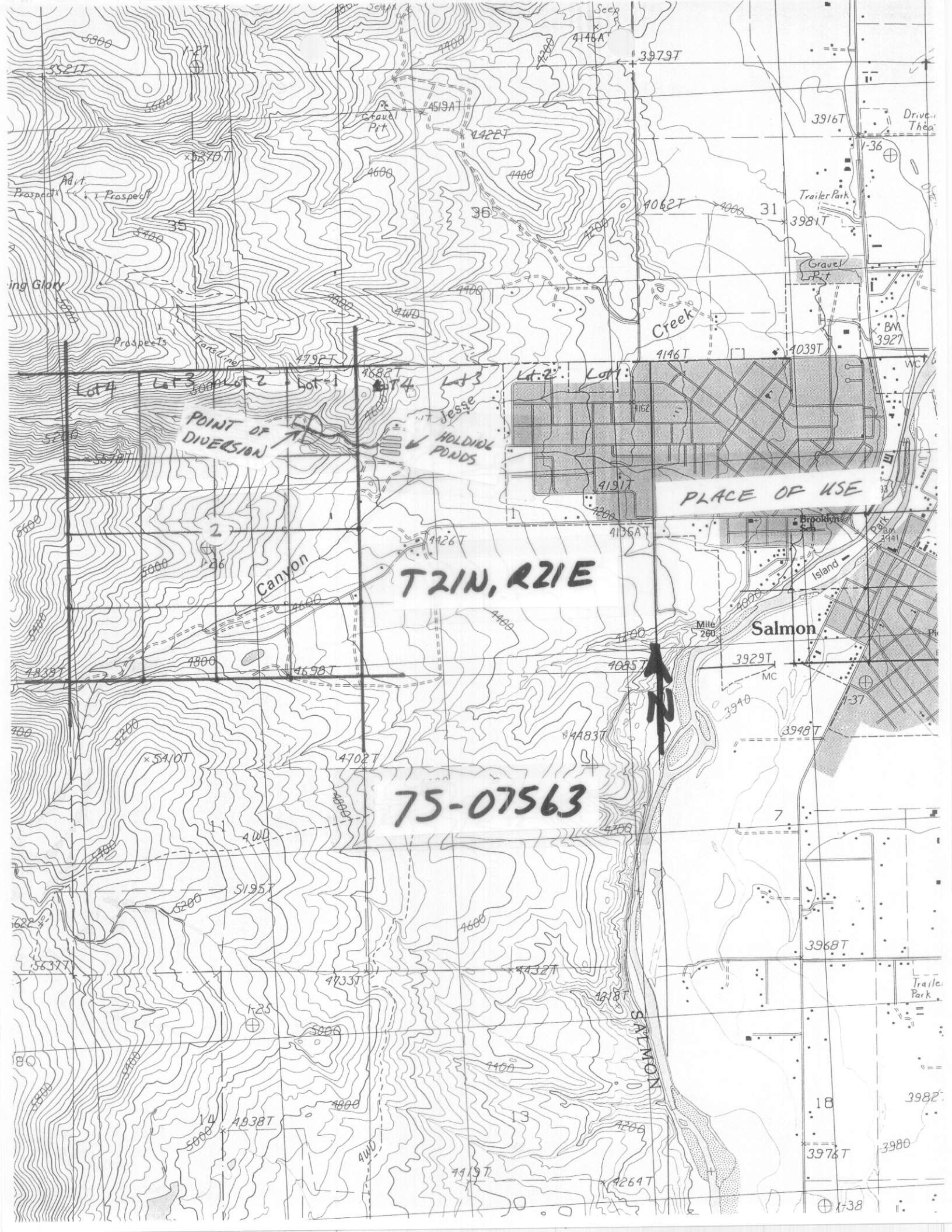
A. GENERAL INFORMATION

1. Name of stream or ditch: JESSIE CREEK
2. Location: S2, TRIN, R22E
3. Person conducting measurement: DON SIMPKINS
4. Date and time of measurement: 1130 HRS 9/20/95
5. Accompanied by: PAUL STOKES
6. Measuring device size and ID no.: AA METER
7. Spin test before measurement OK? OK after measurement OK? OK
8. Purpose of measurement: CITY OF SALMON

B. MEASUREMENT DATA

[illegible]

75-07563



T21N, R21E

75-07563

PLACE OF USE

Hazen-Williams Equation for Closed Pipe Flow

Assumptions: Head Loss due to bends, couplings, & valves is negligible

$$Q_{cfs} = 1.318 C_h (\pi D^2/4) \times (D/4)^{0.63} \times (H/L)^{0.54}$$

Q = Discharge (cfs)

D = Pipe Diameter (ft) = 1.166 ft

L = Pipe Length (ft) = 1,584 ft

H = Elevation Drop (ft) = 128 ft

C_h = Values for Types of Pipe = 120

- | | |
|--------------------------------------|------------------------------|
| 150 -Plastic (PVC) > 6" | 110 -Riveted Steel |
| 140 -Very Smooth, PVC < 6" | 100 -Old Cast Iron |
| 130 -Cast Iron | 80 -Badly Corroded Cast Iron |
| 120 -Wood, Concrete,
Welded Steel | |

$$Q_{cfs} = 1.318 \left(\frac{120}{C_h} \right) \left[\pi \left(\frac{1.166}{D} \right)^2 / 4 \right] \times \left(\frac{1.166}{D} / 4 \right)^{0.63} \times \left(\frac{128}{H} / \frac{1,584}{L} \right)^{0.54}$$

$158.16 \times 1.0677 \times 0.4599 \times 0.257$

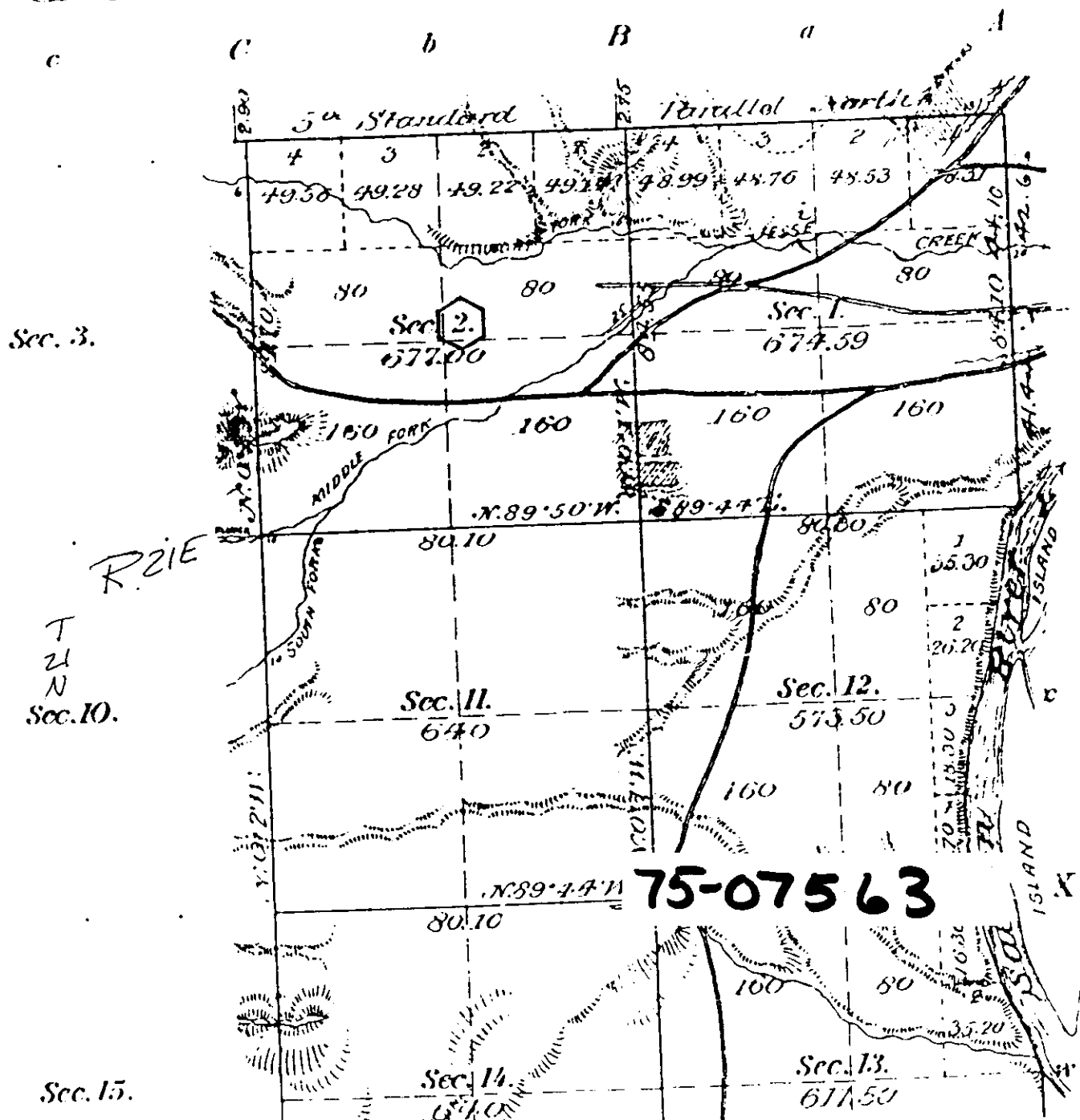
Q_{cfs} = 19.95 cfs

ESTIMATED PIPE CAPACITY

Permit # 75-07563

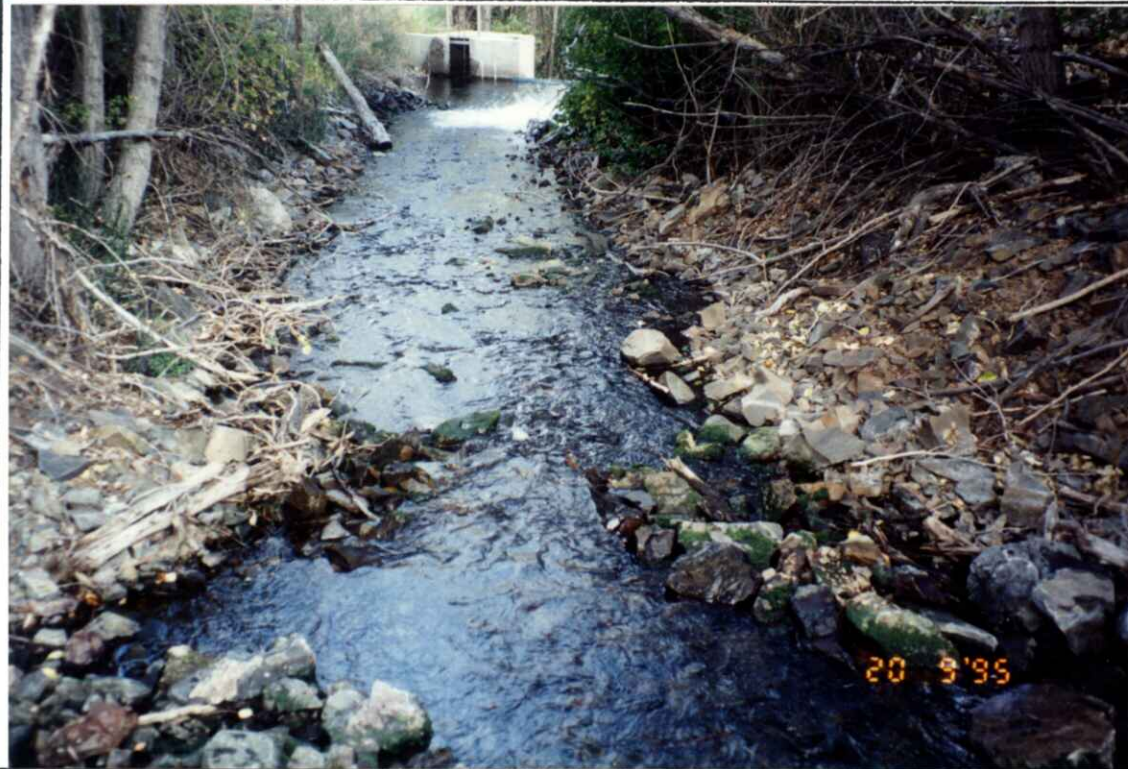
of the Boise

Meridian



CITY OF SALMON
MUNICIPAL

1 of 2



JESSIE
CREEK
UPSTREAM
OF POINT
OF DIVERSION



CITY OF
SALMON
MUNICIPAL
WATER
INTAKE ON
LEFT.
POINT OF
DIVERSION

75-07563

CITY OF SALMON
MUNICIPAL

2012

WATER
STORAGE
PONDS
ABOVE
WATER
TREATMENT
PLANT



WATER
TREATMENT
PLANT
ABOVE CITY
OF SALMON



75-07563