



State of Idaho  
DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190  
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CECIL D. ANDRUS  
GOVERNOR

R. KEITH HIGGINSON  
DIRECTOR

May 16, 1994

RE: Water Diverted for Deadwood Creek Canal

RECEIVED

JUN 17 1994

Jack Eastman, Watermaster  
106 Doral Dr.  
Jerome, ID 83338

WATER RESOURCES  
WESTERN REGION

Dear Mr. Eastman:

It is my understanding that you are currently the watermaster for Cedar, Devil and Deadwood Creeks (Water District No. 47-C). We have gone out and measured the diversion for Cedar Mesa Reservoir and Canal Company from Deadwood Creek and came up with a flow rate that seems realistic to us. However, in order to double check our measurement of that canal, I was wondering if you could send me a summary of the readings you have taken at the weir above Devil Creek. If we could compare our measurement with your records we would then be able to determine if our measurement is consistent with what you have found to be the flow rate.

If you have any questions in regard to this matter, please feel free to contact me.

Sincerely,

KAY WALKER  
Sr. Water Resource Agent  
Adjudication Bureau

RECEIVED  
JUN 21 1994  
Department of Water Resources

KW:k

*My readings for 1994 are:*

3-4			
3-8	1.1 cfs	5-19	7.0 cfs
4-15	2.0 cfs	5-28	3.5 cfs
4-22	5.3 cfs	6-4	0
5-2	2.2 cfs		
5-7	14.5 cfs		
5-9	15.6 cfs		
5-13	17.2 cfs		

MANNING EQUATION CHANNEL CAPACITY RESULTS

05-13-1994

File Number: A47-02440

Claimant: CEDAR MESA RESERVOIR & CANAL CO.

Channel measured: DITCH FROM DEADWOOD CREEK DIVERSION

Date of measurement: MAY 12 1994

Measurement location:

SEC 28 TWP 15S RGE 12E

Calculation prepared by: KAY WALKER

Comments about the measurement:

WE REMEASURED THE AREA OF THE DITCH WITH THE HIGH WATER MARK CLEARLY IDENTIFIED. THE MEASUREMENT OF AREA LAST FALL WAS BASED ON WHAT WE THOUGHT WAS HIGH WATER MARK BUT WAS NOT RIGHT.

The results of the calculation are:

The length of the channel measured is 405 feet.

The upstream and downstream rod readings are 7.35 and 7.50 feet.

The channel cross section is 32.68 ft-sq.

The wetted perimeter is 21.58 feet.

The hydraulic radius is 1.51 feet.

The slope is 0.0004

The roughness coefficient is 0.0750

The flow velocity is 0.504 ft/sec.

The rate of flow is 16.48 cfs.

copy

CROSS SECTION NUMBER 1

For File Number A47-02440 for the DITCH FROM DEADWOOD CREEK DIVERSION

Number	Rod Reading	Water Depth	Distance
1	0.00	0.00	0.00
2	0.80	0.80	2.00
3	1.50	1.50	4.00
4	1.60	1.60	6.00
5	2.00	2.00	8.00
6	2.40	2.40	10.00
7	2.60	2.60	12.00
8	2.60	2.60	14.00
9	1.90	1.90	16.00
10	0.80	0.80	18.00
11	0.00	0.00	20.70

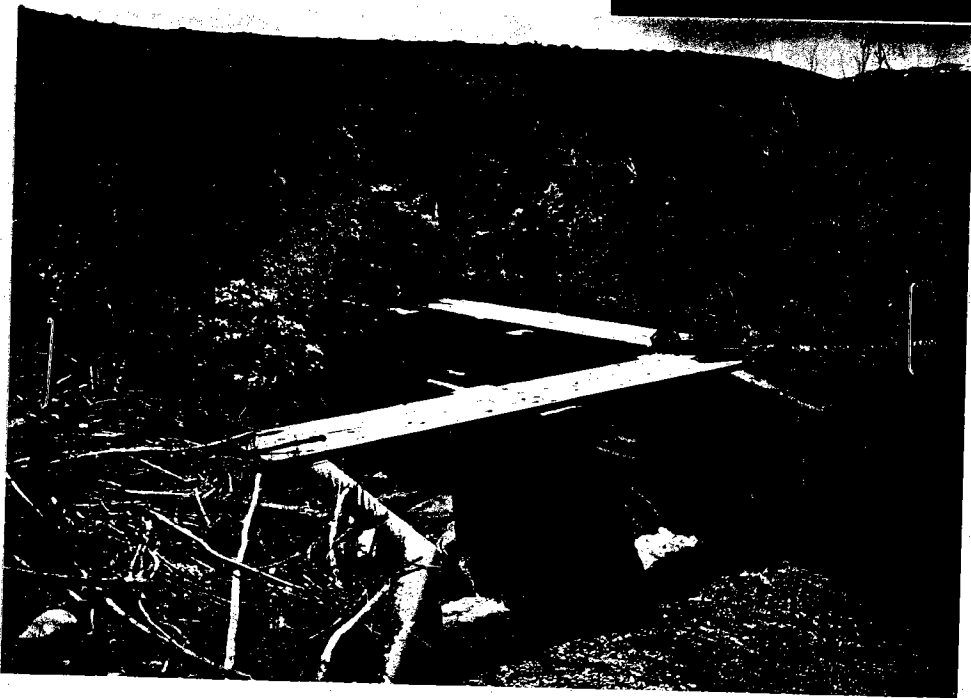
The area for this cross section is 32.68 square feet  
and the wetted perimeter is 21.58 feet.



Pictures taken  
5/12/94 by  
Linda Werner &  
Kay Walker

← Looking downstream  
Deadwood Ck. toward  
P/D to canal.

At Deadwood Canal →  
looking upstream at  
cement structure  
diverting Deadwood  
Ck. water. Note:  
Leak in board



← Looking upstream  
at cement structure -  
Deadwood Ck. on  
right.

2

← Same Break in canal

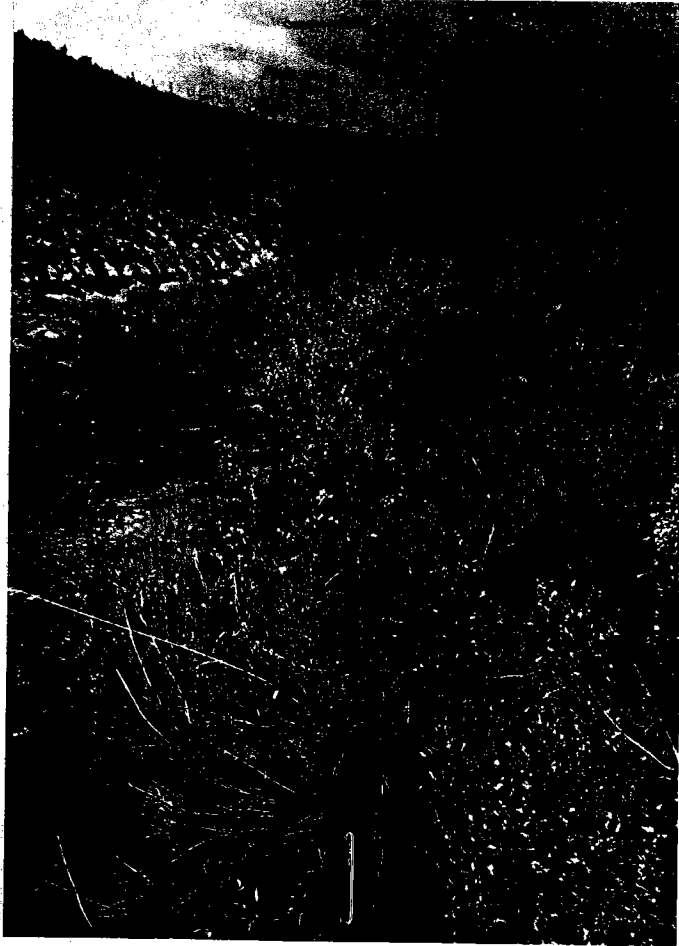


← Same Break in canal

← large break in canal downstream from measurement site.

Pictures taken 5-12-94 by Jimda Warner & Kay Walker





Pictures taken  
5/12/94 by  
Linda Werner  
& Kay Walker

← Looking  
upstream canal  
Note condition  
of canal-lots  
of vegetation.

2<sup>ND</sup> Break →  
in canal-smaller  
than 1<sup>ST</sup> break-  
taken from  
below



Pictures taken  
5/12/94 by  
Linda Werner &  
Ray Walker



← 2<sup>ND</sup> (smaller) break  
in canal - taken  
from above.