

COPY

June 29, 1994

Dan and Kelly Smith
Leadore ID 83464

Dear Dan and Kelly:

I wanted to get back to you on several issues that Greg Taylor and I discussed with Kelly on-site at Hawley Creek on 6-24-94. The first issue was the measurements we took versus the weir readings. These are listed below:

	<u>staff gauge</u>	<u>pygmy meter</u>
<u>Isoms Ditch</u> -	189" or 3.78 cfs	212" or 4.24 cfs
<u>Oxbow Ranch</u> -	88.5" or 1.77 cfs	130" or 2.61 cfs
<u>Oxbow Ranch</u> (515 ditch)	508.5" or 10.17 cfs	NA

The numbers above show that 786" were credited to the 3 diversions still left on, while the pygmy meter plus the parshall flume reading on the 515 ditch totaled 850". The difference of 64" could be significant at different delivery times but, in this sequence, you still have another 136" that is due Oxbow Ranch before Kagels would be eligible for water (64" overage + 136" = 200").

The measuring method Kelly demonstrated is called the weir stick method and is a valid technique alternative. The U. S. Bureau of Reclamation Water Measurement Manual of 1975 states, "At best the sticks can only approximate the accuracy obtainable with the weir when the head is measured in the normal manner." This must be kept in mind when certain delivery problems occur.

Finally, the question of delivery to the Kagel's ditch was of some concern. Section 42-701 of the Idaho Code states in part that ". . .the Department of Water Resources may order the duly qualified and acting watermaster of the water district to shut off and refuse to deliver at the point of diversion, the water claimed by such appropriator or user until he does construct and maintain such headgates, controlling works or measuring devices. . ." I feel that such an action is appropriate in this case.

I have included for your use a Parshall flume chart, copies of Section 42-701, Idaho Code and finally the B.O.R comments on weir sticks.

Sincerely,

Harold W. Jones
Water Resource Supervisor

HWJ:lk

CC: Ray and Nancy Kagel

SD--0602-2

Source: HAWLEY CREEK

Basin: 74

STATE

Water Right No.	Current Owner Last, First	S T G	Priority Date	Tributary	# Records Total Diversion	25 Use Code	Desc
A74-00025	HIRSCHY, FREDRICK C HIRSCHY, LYNN HARRI	D	04/01/1939	EIGHTEENMIL	2.500		
A74-00027	WHITWORTH, SCOTT L WHITWORTH, DIXIE L HIRSCHY, FREDRICK C HIRSCHY, LYNN HARRI	D	04/01/1879	EIGHTEENMIL	0.700	01	IRR
A74-00028	WHITWORTH, SCOTT L WHITWORTH, DIXIE HIRSCHY, FREDRICK C HIRSCHY, LYNN HARRI	D	08/15/1883	EIGHTEENMIL	3.300	01	IRR
A74-00022	KAGEL, RAY KAGEL, NANCY LIEBRECHT, CHARLES	D	04/01/1914	EIGHTEENMIL	2.000	01	IRR
A74-00011	HIRSCHY, LYNN HARRI WHITWORTH, DIXIE L WHITWORTH, SCOTT L	D	03/27/1911	EIGHTEENMIL	1.600	01	IRR

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Water Right No.	Current Owner Last, First	S T G	Priority Date	Tributary	# Records		STATE Use Code Desc
					Total Diversion	25	
A74-00011	HIRSCHY, FREDRICK C	D	03/27/1911	EIGHTEENMIL	1.600		
A74-00012	WHITWORTH, SCOTT L WHITWORTH, DIXIE L HIRSCHY, FREDRICK C HIRSCHY, LYNN HARRI	D	10/16/1908	EIGHTEENMIL	2.000	01	IRR
A74-00016	WHITWORTH, DIXIE L HIRSCHY, FREDRICK C HIRSCHY, LYNN HARRI WHITWORTH, SCOTT L	D	04/13/1911	EIGHTEENMIL	6.400	01	IRR
A74-00029	HIRSCHY, FREDRICK C HIRSCHY, LYNN HARRI WHITWORTH, SCOTT L WHITWORTH, DIXIE L	D	04/01/1881	EIGHTEENMIL	0.700	01	IRR
A74-00030	WHITWORTH, SCOTT L WHITWORTH, DIXIE L HIRSCHY, FREDRICK C	D	08/01/1883	EIGHTEENMIL	5.000	01	IRR

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Water Right No.	Current Owner Last, First	S T G	Priority Date	Tributary	# Records		25
					Total Diversion	Use Code	
A74-02326	BEYELER, MERRILL BEYELER, SHARAL	D	04/11/1960	EIGHTEENMIL	1.360	01	IRR
A74-00014	ISOM, CHARLES B ISOM, FERN	D	07/23/1909	EIGHTEENMIL	0.660	01	IRR
A74-00015	ISOM, CHARLES IDSOM, FERN ISOM	D	07/23/1909	EIGHTEENMIL	0.420	01	IRR
A74-00023	ISOM, CHARLES B ISOM, FERN	D	04/01/1939	EIGHTEENMIL	1.000	01	IRR
A74-00024	ISOM, CHARLES B ISOM, FERN	D	04/01/1939	EIGHTEENMIL	1.500	01	IRR
A74-00026	ISOM, CHARLES B ISOM, FERN	D	04/15/1883	EIGHTEENMIL	1.500	01	IRR
A74-00013	ISOM, CHARLES B ISOM, FERN	D	07/23/1909	EIGHTEENMIL	0.420	01	IRR
A74-00025	WHITWORTH, SCOTT L WHITWORTH, DIXIE L	D	04/01/1939	EIGHTEENMIL	2.500	01	IRR

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