



State of Idaho

DEPARTMENT OF WATER RESOURCES

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CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

August 1, 1994

Payette River Ranch
c/o Shirley Fischer
1114 Vanderdasson Rd.
Emmett, ID 83617

Re: Payette River Diversion

Dear Ms. Fischer:

Deputy watermasters Don and Rick York of Water District 65, Payette River, recently asked me to visit your Payette River diversion off Vanderdasson Road and address questions concerning measurement of the diversion and changing the point of diversion. I visited your diversion on July 26 along with several other diversions in the Emmett and Letha area.

Don and Rick asked me about a suitable location for measuring your diversion off of Vanderdasson Road. After looking at the pond, ditch and headgate, I advised them that measurement of your diversion would be best at the headgate from the river. There are several measurement options at this location. One option is for Don and Rick to maintain the staff gage and current meter the ditch or diversion box at the headgate and develop a rating table for the given cross-sectional area. This option will require periodic measurements in the future to both develop and maintain the rated section.

Other measurement options include installation of a standard measuring device, such as a weir or a submerged orifice. Information on these measuring devices are enclosed with this letter. A standard contracted rectangular or cipolletti weir, with a length or opening of one to two feet, could be installed in the ditch about 8 to 10 feet below the concrete diversion box. A weir of this size could also be installed at the lower end of the diversion box (i.e.; lower straight end of the box, at point before lower north wing wall). The length and height of the box should provide enough space to accommodate a weir here and still meet weir requirements. A standard submerged orifice could also be installed either toward the lower end of the concrete box or at the opening of the box.


In addition to installation of a measuring device, I would suggest that you consider installing some type of a standard control gate on this diversion. The present control works using wood slats or boards is not adequate for watermaster control. A standard type canal gate like the ones in the attachments would provide more adequate and permanent control. Such a gate could be installed at

the opening of the concrete diversion box, in lieu of the wood boards. A weir or orifice placed at the lower end of the box could still be functional with a gate placed on the front end. If a submerged orifice were placed at the front end or opening of the concrete diversion box, then a gate could be placed in the box toward the lower end.

Finally, Rick and Don had mentioned that they had talked to you about changing the location of this point of diversion. Specifically, I believe they said that there was some discussion about moving your water rights from this diversion to the Bilbrey Ditch. Under this scenario, your rights would be measured at, and added to the other rights in the Bilbrey Ditch, including your own shares in that ditch. A headgate could be installed in the Bilbrey Ditch next to your Payette River diversion, and turned into the same ditch which you currently use. This option would eliminate the need to install a measuring device and control gate on your Payette River diversion since there already is an adequate measuring device and controlling works at the head of the Bilbrey Ditch.

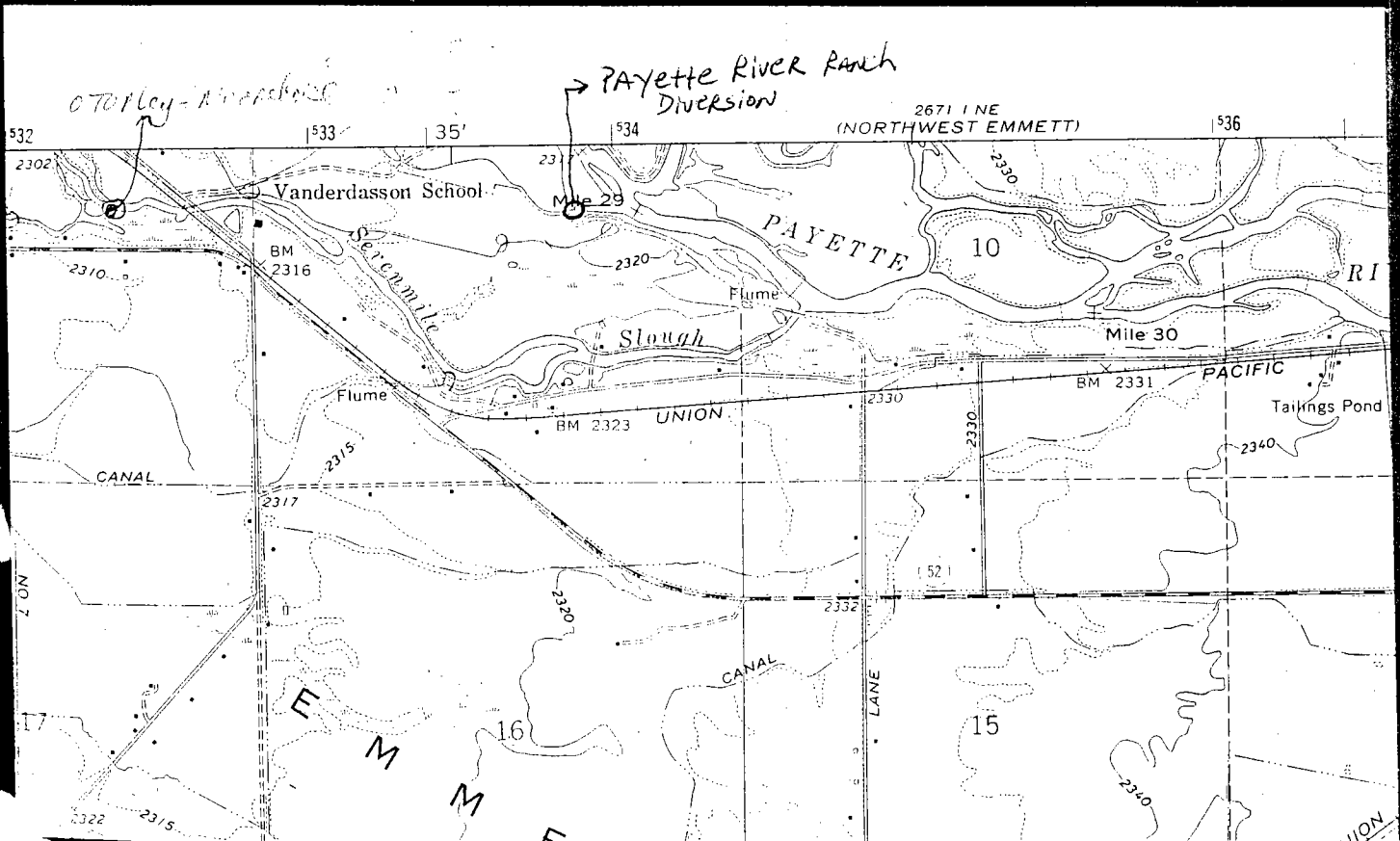
If you have further interest in changing the point of diversion for your Payette River diversion rights, then you should contact the Department and inquire about filing a water rights transfer application. I can assist you with the transfer or address additional questions about measurement of your existing diversion. Thank you for your time and interest in this matter.

Respectfully,



Tim Luke
Hydrologist
Water Allocations

cc: Helen Bivens, Watermaster
Don York



DATE: 12/29/92

STREAM: Payette River

DIVERSION NAME: Payette River Ranch

POINT OF DIVERSION: T6N R2W Sec. 9, SESWNE

ACCESS: Vehicle - Highway 52 west of Emmett, turn north on Vanderdasson Rd., cross Seven Mile Slough then turn east on dirt road, follow dirt road and cross field toward diversion.

USGS MAP: SW Emmett
(name)

W 56
(number)

WATERMASTER CONTROL: _____ YES _____ X NO

DIVERSION DESCRIPTION: Concrete diversion structure at end of slough/pond off of Payette River. Four foot wide wooden planks set inside and across structure provides control of flow from slough to ditch. Structure needs to be fitted with turn screw attached to wooden or steel gate to provide watermaster control.

MEASUREMENT: None. A standard rectangular weir could possibly be set in diversion structure, or structure could be modified to include weir. Ditch below structure is well vegetated and ditch banks are steep. A standard sharp crested weir or parshall flume could be placed in ditch below structure with improved ditch maintenance and access.

CURRENT WATER RIGHTS: 65-10723 (1.99 cfs) & A65-10723 (2.10 cfs)
65-10724 (0.38 cfs) & A65-10724 (0.50 cfs)
