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Hydraulics

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Water Resources

November 22, 2011

Allen Merritt
Idaho Department of Water Resources
1341 Fillmore St., Suite 200
Twin Falls, ID 83301-3380

RECEIVED
NOV 22 2011
DEPT. OF WATER RESOURCES
SOUTHERN REGION

Re: Applications for Transfer –Idaho Water Company/47-17568

Dear Mr. Merritt,

Attached is the water right transfer application for CE Brackett Cattle Co. It is desired to transfer a portion of irrigation water right 47-17568 to stock water use on a cattle facility owned by CE Brackett Cattle Co.

It is desire to transfer 0.22/33.0 CFS/AFA or 17.6 acres (based on diesel fuel consumption) to a point of diversion of SESENW Sec. 9 T 12S R 16E. The period of use for the portion be transferred will be from 1/01 to 12/31 annually. The current POD for 47-17568 is located at T. 16S R. 16E Sec. 20 NWSWSW.

Water right 47-17568 was decreed June 1, 2010 and has historically utilized a diesel engine to provide power for the irrigation well. Fuel delivery records are attached to the application. A complete annual record of fuel delivery records for one growing season between 1999 and 2003 is not available. The diesel engine provided ground water to the farm from May through September of each year. Unfortunately, a complete annual delivery records has not been kept by the owner or by Valley CO-OP Inc. Efforts to obtain additional fuel delivery records have failed. It was determined that the fuel records for May, June and July of 2000 and 2001 are the most complete and best representations of the amount of diesel fuel used on an average monthly basis. These values were used to calculate an estimated 2.07 gallons of diesel fuel consumed per hour.

The calculated estimation of the volume of water pumped by the well has been performed based on the average consumptive rate of diesel of 2.07 gal/hr, an engine efficiency of 40%, a pump efficiency of 75%, an irrigation efficiency of 75%, and a required 50 psi for hand lines. Representatives from the Western States, an Independent Authorized Caterpillar Dealer, indicated that minimum efficiency of the Caterpillar engine would be a 35% based on model and year of the engine. The BTU per gallon of diesel fuel was

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determined to be 138,700 BTU/gal based on a report prepared by the Department of Interior entitled *Buildings/Facilities Energy Management & Water Conservation Plan*. The estimated annual volume of water pumped is 411 afa and the volume of irrigation water per acre is 1.99 acre-feet.

Affidavits from Thomas Leno Sr. the owner of the ranch and Vern Buss a former ranch manager indicate that since 1984 through 2003 water right 47-17568 has provided 94.0% of the irrigation water to the 155 acres.

A total of 17.6 acres of surface water rights 47-14285 located at Township 16 South Range 16 East Section 29 SWNW, Boise Meridian will be relinquished to the State of Idaho. The 17.6 acres are stacked with the ground water of 47-17568. The allowed acres irrigated under 47-7287 will be reduced 17.6 acres, but the volume limits under this right will not be changing.

Two publications examining the ground water in the Salmon Falls area indicate that the ground water in the area of the ranch flows northward towards the Snake River aquifer. Title pages and excerpted pages of interest have been copied and attached to the application.

A Water Requirements and Consumptive Use analysis was performed for the beef cattle facility operated by Brackette Cattle Company and it was determined that 31.9 AFA of stock water is required to operate the facility. The 33.0 AFA of stock water that is proposed to be transferred will provide the necessary water for the facility.

Idaho Water Company has purchased from Tom and Dorothy Leno 27.0 acres of ground water from water right 47-17568 with two separate purchase agreements. A current transfer is pending for 9.1 acres. This application will transfer 17.6 acres.

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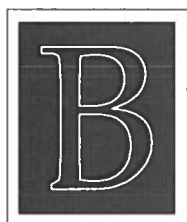
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Please copy our office on all correspondence regarding these water right transfers. Thank you for your assistance and clarification on this matter and if you have questions or comments, please don't hesitate to call.

Sincerely,

Greg Sullivan E.I.T.

Cc: Chet Brackett, Idaho Water Company

Enc: Aerial Maps, CAFO Water Requirement Spreadsheet, Sales Agreement for Water, Warranty Deeds, Statement form Mortgage Holder, Fuel Receipts, Ground Water Study Publications, Transfer Calculations, Irrigation Well Log, Water Requirements and Consumptive Analysis, Brockway Engineering Check # 10417 for \$500.00.

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