



CITY OF RAPID CITY

Engineering Division

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MEMORANDUM

No. PW071503-15

TO: Mayor Shaw and Council

FROM: Stacey Titus

SUBJECT: City's purchase of Cleghorn Water Association's Water Rights

DATE: 7/10/03

CC: Ted Vore, Jason Green, Randy Nelson, and John Wagner

At the July 1st PW committee meeting this item was continued to the July 21st Council meeting and at this time this memo is for informational purposes.

During the discussions about the City purchasing the Cleghorn Water Association's Water Rights, some questions were posed regarding the City's possible use of the Right and how it compares to the City's well drilling program.

1. The Water Right is for 0.89cfs year round, which is the equivalent of 575,000 gallons per day or 209,987,500 gallons per year and would have rate of flow of approximately 400 gpm.
2. The Water Right is a very senior right (I believe 1877) and was originally for Sioux San Hospital.
3. Jason Green is checking into the transfer of the right regarding whether there were any special provision placed on the Right when it transferred to Cleghorn Water District from Sioux San. This answer is anticipated prior to the July 21st Council Meeting.
4. I believe the City can use this Water Right in two ways:
 - a. First we could actually use the water from the Cleghorn Spring's spring box and pipe it over to our Jackson Springs system (Refer to map). This would allow us to use this water 365 days a year and at



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(Addressee)

(Date)

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the cheapest cost to supply water available to the City. Our gallery water, Jackson Springs and Meadowbrook are the cheapest, the next cheapest source would be our wells, and the most expensive would be the Water Treatment Plant.

- b. The second option would be transferring the water to another diversion point, which in general terms means letting the water escape from the spring box and naturally find it's way to Rapid Creek and then withdrawing the water downstream at probably the Water Treatment Plant. Using the water right in this way allows us to not have to order as much water from Pactola and thus saves us money and water reserves in Pactola. Using the water in this way however is only beneficial during the times when the Water Treatment Plant is operating.
 - c. A possible third option similar to b. above would be to use this source at the Meadowbrook or Girl Scouts gallery, which may allow us to reduce the amount of water we are currently being allocated from Rapid Creek at this source. The City will need to check into this option more before I could say with certainty that this option would work but I am fairly confident that it is viable too.
5. Regarding a comparison between this Water Right and drilling a new well. This is a known water supply that can be immediately used by the City if options b. or c. are used and with some minor investment in piping and possibly a raw water pump we could be use this supply with our Jackson Springs system (Option a).
 6. The attorney's office has completed drafting the agreement between the City and Cleghorn and the District should have the agreement signed prior to the Council meeting on the 21st.