

## MEMORANDUM

To: 29-10857, Ben Use storage claim, 29-256.  
Fr: Bryce Contor  
Date: 8/31/01

Re: Volume of storage, Diversion rate  
of Spring

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1) Volume of storage: <sup>no caption</sup>

~~Pond area (see attached GIS) 1.3 acres.  
Mr. Boling broke says pond is "over his  
head." Assume average depth  $\approx$  4 ft  
4 feet  $\times$  1.3 acres = 5.2 acre feet.  
This is volume for GW storage  
under amended 29-2565 and  
for SW storage under Ben use  
claim. Combined limit = 5.2 acre feet~~

2) Diversion rate of Spring:

Mr. Boling broke indicates spring fills  
pond in "two to three weeks".

$$\frac{5.2 \text{ acre feet}}{14 \text{ days}} \approx \frac{0.37}{0.15} \text{ af/day.}$$

Memo 8/31/01

P 2

$$\frac{0.15 \text{ } 0.37 \text{ af/day}}{1.9835} = \frac{0.19 \text{ cfs}}{0.08 \text{ cfs}}$$

### 3) Diversion from Storage

a)  $409 \text{ acres} \times 4.0 \text{ afa} = 1636 \text{ acre feet}$

b) ~~$$\begin{array}{r} 29-477 \\ 29-2585 \\ 29-10857 \\ \hline \text{Combined limit} \\ \text{wt needed} \end{array} \quad \begin{array}{r} 0.70 \text{ cfs} \\ 1.04 \text{ cfs} \\ 0.19 \text{ cfs} \\ \hline 1.93 \text{ cfs} \end{array}$$~~

~~$$1.93 \text{ cfs} \times 1.9835 \text{ af/day/cfs} \times 214 \text{ days} = 820 \text{ acre feet.}$$~~

$1.044 \times 1.9835 \times 246 \approx 505.4 \text{ acre feet/yr.}$  This is combined limit. Calculate each component (Gw / Sw) the same way.

Gw irr from storage = 505.4 afa, total authorized annual diversion volume. Total volume on license left @ 505.4 afa to reflect the fact that the water diverted and the water delivered from storage are the same authorized volumes, not two additive volumes.  
Bac.