

MEMORANDUM

To: Simplot B29 Files 29-2020, 29-2225,
29-4334
Fr: Bryce Costor
Date: 7/18/01

Re: Batiste Spring Summary

1) 29-2020

Licensed 10/31/1913 3.0 cfs priority 8/8/1904
"supplying tanks and other general railroad
purposes". License exam indicates capacity
of 5.4 cfs. No ^{exam} date but stamped in
office July 12, 1909 (map). Sheet w/
Capacity stamped Sept 17, 1913.

Claim 2.9 cfs industrial 0.1 cfs municipal.

2) 29-2225

Licensed 1930, corrected license issued 1955
3.5 cfs 3/10/1920
"General Railroad Purposes"

License exam indicates capacity of 3060 GPM
 ≈ 6.82 cfs.

Batiste Spring 7/18/01

p 2

claim 29-2225	3.38 cfs	industrial
	<u>0.12 cfs</u>	municipal
	3.50 cfs	total

3) 29-4334

Original Statutory claim filed 1983,
claims June 25, 1902, 1.48 cfs
for Industrial, Domestic, and Municipal
purposes.

AS claim matches statutory claim.

Note letter in 29-2020, remarks to
29-2020, which appear to withdraw
this claim.

4) Analysis

Depending on current use/capacity,
it appears a beneficial use claim
for $(5.4 - 3.0 = 2.4 \text{ cfs})$ w/ priority date
9/17/1913 would be in order. This w/
right 29-2225 should be limited to
the 3.5 cfs licensed for 29-2225. 29-4334
could be amended to reflect this.

Batiste Spring 7/18/01 p 3

If current capacity and beneficial use justify, an additional ben use claim for $(6.82 - 6.50 = 0.32 \text{ gfs})$ with priority 8/31/1930 (furne licensing exam 29-2225) may also be in order.

1930 works consisted of "two three-stage 1759 GPM centrifugal pumps against 125# pressure." Claim(s) state "Water is Diverted with a 300 hp Westinghouse Pump and a 500 hp Worthington pump."

Theoretical:

Assume: Pump efficiency 80%

friction 10 ft

lift 10 ft

discharge 125 psi = 289 ft

$$\text{GPM} = \frac{\text{Water HP} \times 3960}{(\text{lift} + \text{friction} + \text{pressure head})}$$

$$= \frac{(300 + 500) \times 0.80 \times 3960}{(10 + 10 + 289)}$$

$$= 8202 \text{ GPM} \approx 18.3 \text{ gfs}$$