

MEMORANDUM

To: 29-2385-

29-2413

29-2469

29-7624

Fr: Bryce Contor

Date: 6/29/01

Re: City of Chubbuck Initial Review

From an initial data base query, these four adjudication claims (based on licenses) appear, along with post-1987 license 29-8188 and post-1987 permits 29-8229 and 29-8230. Copies of the three post-87 rights are attached to the copy of this memo in 29-2385

These are summarized below:

WR #	Permit	License	Claim
29-2385		0.78 d/s	0.56 / 405.68
29-2413		1.10	2.23
29-2469		1.11 / 810.3	3.8 / 2752.88
29-7624		4.96	4.45 / 3228.13
29-8188		6.70	
29-8229	1.74		
29-8230	2.21		

The diversion rates for the four claims sum to 11.04 cfs. The underlying licenses for these four sum to 7.95 cfs. Note however that 29-2385 and 29-7624 are claimed for less than licensed.

Historical Capacity

29-2469 appears to have original design capacity of 750 gpm (1.67 cfs) and actual capacity of 900 gpm (2.01 cfs) but was originally permitted for only 1.11 cfs, so that is the licensed Q. Proof of Ben. Use witnesses indicate use commenced Jan 1963, which is after the mandatory permit statute date, so a ben. use claim could not be recommended.

Engineer's report

29-2413 / does not indicate original capacity, however notes indicate original system used 60 hp motor w/ static water level between 38' and 70'. Assuming 80 psi discharge and 75% pump efficiency:

$$Q = \frac{\text{Water hp} \times 3960}{\text{TDPH}} = \frac{60 \times .75 \times 3960}{(38 + 10 + 80 \times 2.31)} = 765 \text{ gpm} = 1.7 \text{ cfs}$$

$$= \frac{60 \times .75 \times 3960}{(70 + 10 + 80 \times 2.31)} = 673 \text{ gpm} = 1.5 \text{ cfs}$$

Proof of Beneficial use witnesses affirm 750 bph, consistent w/ first calculation, applied to ben. use in September of 1958.

29-2385 Original capacity from licensing exam appears to be 0.56 cfs, as claimed. License was 0.78 cfs, notes indicate springtime capacity was higher than observed at exam.

29-7624 Original capacity from licensing exam appears to be 4.96 cfs as licensed.

Conclusions

- 1) Request has been sent to Danya Bull for copies of Water Measurement Program data.
- 2) Letter should be sent to city inviting amended claims, ben use claim, and explaining that inflated claims must be recommended as licensed.

Bryce A. Contor
6/29/01