

MEMORANDUM

To: 29-4088

Fr: Bryce Contor

Date: 7/7/01

Re: Diversion rate

1) EWMO records indicate 200 hp GE motor. From photo litt appears to be ≈ 15 feet. Assume sprinkler irr discharge ≈ 60 psi, friction ≈ 10 ft, efficiency $\approx 90\%$ (motor), 75% (pump) 67.5% (overall).

2) KW demand from power co. would give better indication of motor developed horsepower. Power meter: 02026945 AGB, Idaho Power.

3) Theoretical calculation from motor horsepower:

$$GPM = \frac{\text{Water Horsepower} \times 3960}{TDH}$$

$$GPM = \frac{200 \times .75 \times 3960}{(15 + 10 + 60 \times 2.31)} = 3640 = 8.1 \text{ g/s}$$

← Power meter tracks to Caldwell address - likely meter has been moved →

Phone call to Idaho Power 7/2001 Bar

- 4) Claim indicates 29-11312 and 29-11313 are intermingled w/ this right. Unclear whether this refers to P00, P04, or both.
- 5) 29-4088 is for 160 acres in sections 7, 8, 17.
29-11312 is for 125 acres in section 8, appearing not to overlap 29-4088
29-11313 is for 125 acres in section 8, appearing to overlap 29-11312 100%.
- 6) Total acres appear to be $160 + 125 = 285$.
 $285 \times 0.02 = 5.70$ gfs
- 8) Calculations for other Simplot pumps (see 29-2020) indicate possible company bias towards over-size motors. 5.70 gfs is probably better indication of capacity.
- 9) Claims sum to 5.70 gfs
(29-4088 = 3.20 gfs, 29-11312 = 0.22 gfs,
29-11313 = 2.28 gfs)

Bruce A. Conton 7/7/01