

MEMORANDUM

Date: February 18, 2011
To: Water Right File 43-7301
From: cpadilla
Re: Licensing Memo

There are no overlapping water rights for this parcel. During my overlap analysis I noticed some surface water rights that are located in this same QQ location but the POU for those rights only encompass 28 acres. Even though the exact location for those rights isn't apparent, I believe that the POU is located to the E and SE of the Elba-Almo Hwy.

The field examiner recommended that the diversion rate for irrigation be based on the duty of water for the irrigation water. The capacity of the well appears to accommodate the domestic and irrigation uses.

Note that taxlot information reflects a new owner of the property associated with this right. The license will be sent to Richard Olofson with an ownership change.

The exact location of the well is unknown but the field examiner recognized that the PD is within the right holders property. I placed a nominal shape in Arcview for the PD. Cp

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 43-7301
 Reviewer: Craig L. Saxton
 Date of Review: 2/18/2011

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	2	2	2
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	30	30	30
DISCHARGE PRESSURE	40	60	80
RATE OF FLOW (cfs)	0.10	0.07	0.06

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes: Data collected on 12-10-95 during field exam.
 Well discharges into a pressure tank. To determine the well capacity before pressure tank assumed discharge pressure senerio's of 40, 60, 80. Since the above theoretical contains several assumptions, I think it is reasonable to support the 0.08 cfs capacity recommended by the field examiner.