

[illegible]

Method of Determination:

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
 ____x____ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
 ____x____ Aerial Photo Attached (required for irrigation of 10+ acres).
 _____ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
		1			

D. FLOW MEASUREMENTS N/A

2. Measurements: N/A

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Theoretical yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

Where: Hp = 1 Hp (per Elsing Well Drilling Co. records)

Eff = efficiency = 70% assumed

H = total head = pumping level = (2.31 x system pressure)
 assume pumping level of 100 feet (based on Elsing Well Drilling Co. records)
 assume system pressure = 30 psi

$$H = 100 + (30 \times 2.31) = 169.3$$

$$Q = \frac{8.8 \times 1 \times .70}{169.3} = 0.04 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:
- N/A**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: Domestic In home & yard (one home) = 1.2 AFA

G. NARRATIVE/REMARKS/COMMENTS

Permit 47-8439 was permitted for the diversion of up to 0.04 cfs for domestic use for the addition of a second home to the Hausner property.

Application for permit 47-8439 submitted by Horst, Cecilia & Morgan Hausner was submitted March 7, 2000 and proof of Beneficial Use was submitted March 7, 2001.

Taxlot data indicates the lot for the second home is approximately 1.9 acres in size. The yard is approximately 0.3 acres in size. A small garden plot of 0.2 acres is present on the lot as well. Original residence is covered for domestic (0.04) and stockwater (0.02) under water right 47-14037 diverted from the same point of diversion as the second residence.

A theoretical yield calculation indicates the well is capable of pumping 0.04 cfs. As there is 0.5 acre of lawn & garden area combined, I recommend permitting the standard 1.2 AFA for domestic in house and lawn and 0.04 cfs.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	1/01 to 12/31	0.040 CFS	1.2 AF
<u>Totals:</u>		0.040 CFS	

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name

Date

Reviewer

Date

Bill Mott 12/23/2010
Chris Menta 12/23/2010





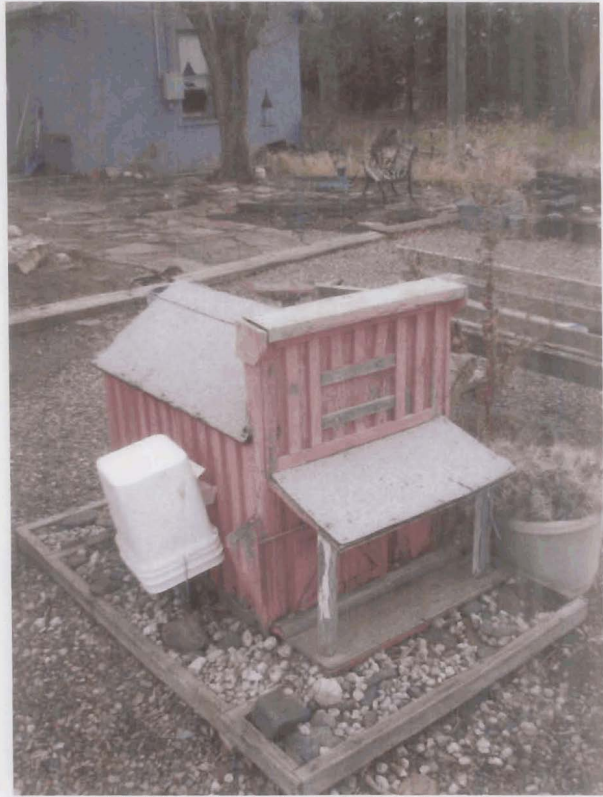


Figure 1: Well Location in front of original residence.



Figure 2: Pressure tank for well system.



Figure 3: Second residence and place of use for water right 47-8439.



Figure 4: Photo of yard (total 0.3 acres).