

[illegible]

Method of Determination:

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

4.

<u>Well or Diversion</u> <u>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</u> <u>Size</u>
	STA-RITE	2			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

PUMP EQUATIONS					
WATER RIGHT No.			87-7195		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	2	379.0816327	0.75	275	45
Q = 0.035 cfs 15.7 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 6 \times 3 = 18 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .03 \times 246 \times 1.9835 = 14.6 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 14.6 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\begin{array}{r} .6 \\ \times 6 \\ \hline 3.6 \end{array}$$

$$\begin{array}{r} 3.6 \\ + 14.6 \\ \hline 18.2 \text{ AF Total} \end{array}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUNDWATER FOR DOMESTIC AND IRRIGATION USES. THE DOMESTIC USE IS FOR 6 HOMES. 4 OF THE HOMES HAVE BEEN BUILT AND THE OTHER 2 LOTS HAVE BEEN STUBED OFF AT THE LOT LINE. THE IRRIGATION IS FOR 1 ACRE AT EACH LOT. THEY ARE RUNNING A 2 HP PUMP SET AT A DEPTH OF 275 FT IN THE WELL AND THE SYSTEM RUNS AT 45 PSI.

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>
IRRIGATION	03/15 to 11/15	0.030 CFS	14.60 AF
DOMESTIC	01/01 to 12/31	0.030 CFS	3.60 AF
<u>Totals:</u>		0.030 CFS	18.20 AF

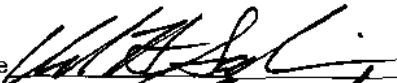
2. Recommended Amendments

☐ 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

12-13-07

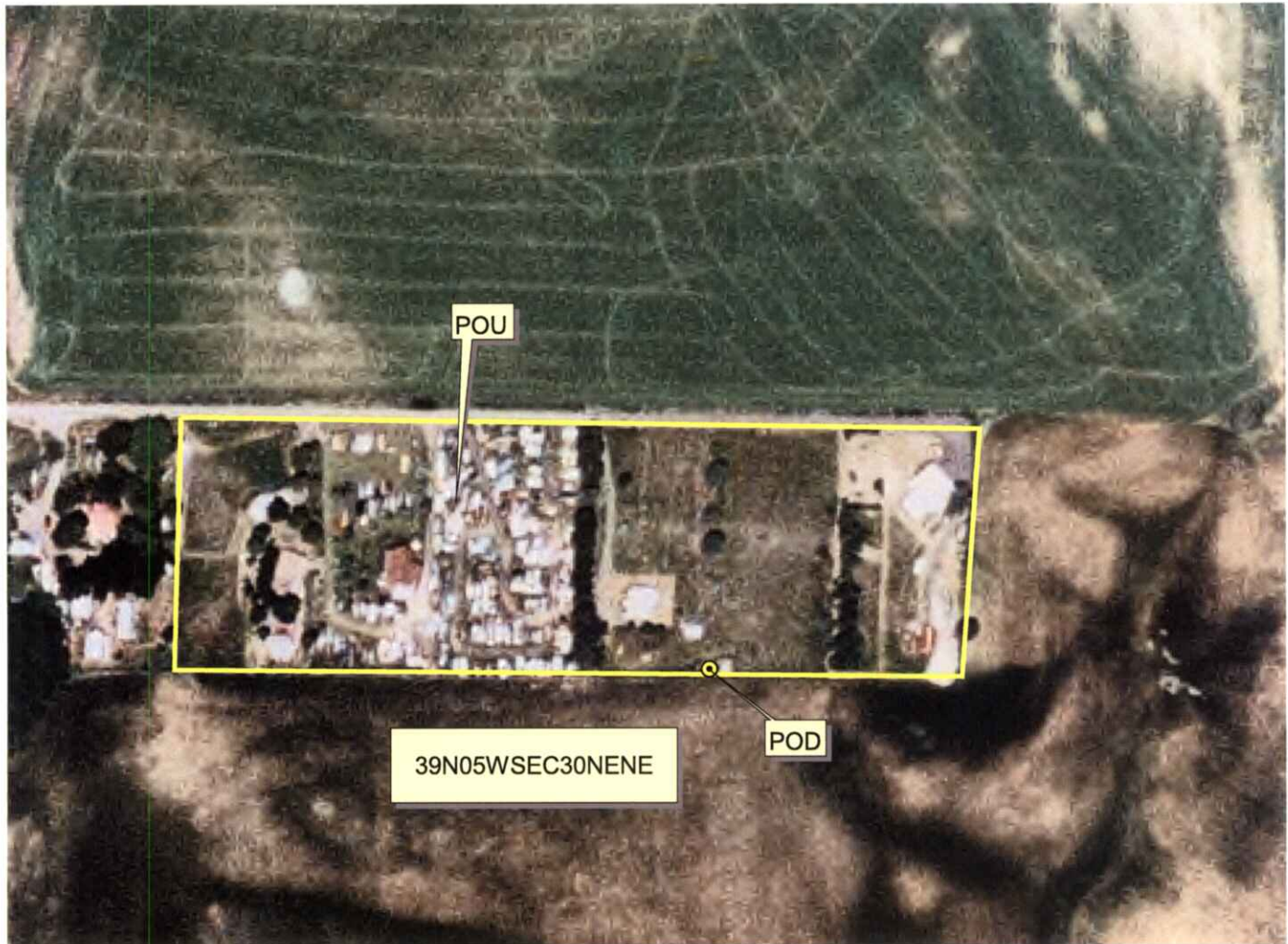
Reviewer



Date

12/17/07

87-7195



0.07 0 0.07 0.14 Miles

○ Right POD
□ Pou.shp





PLACE OF USE 1



PLACE OF USE 2



PLACE OF USE 3



PLACE OF USE 4



PLACE OF USE 5



PLACE OF USE 6



POINT OF DIVERSION

87-7195



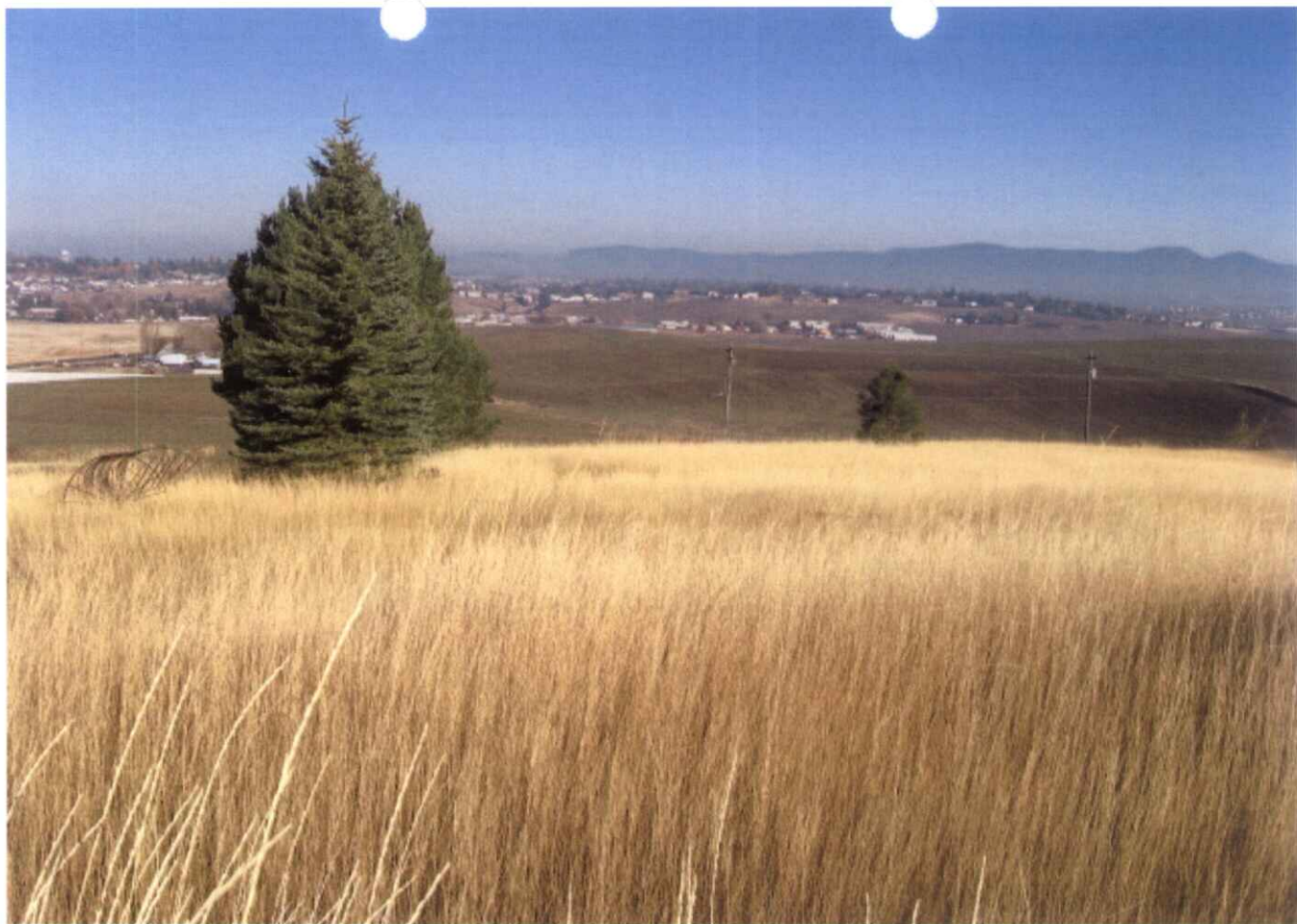
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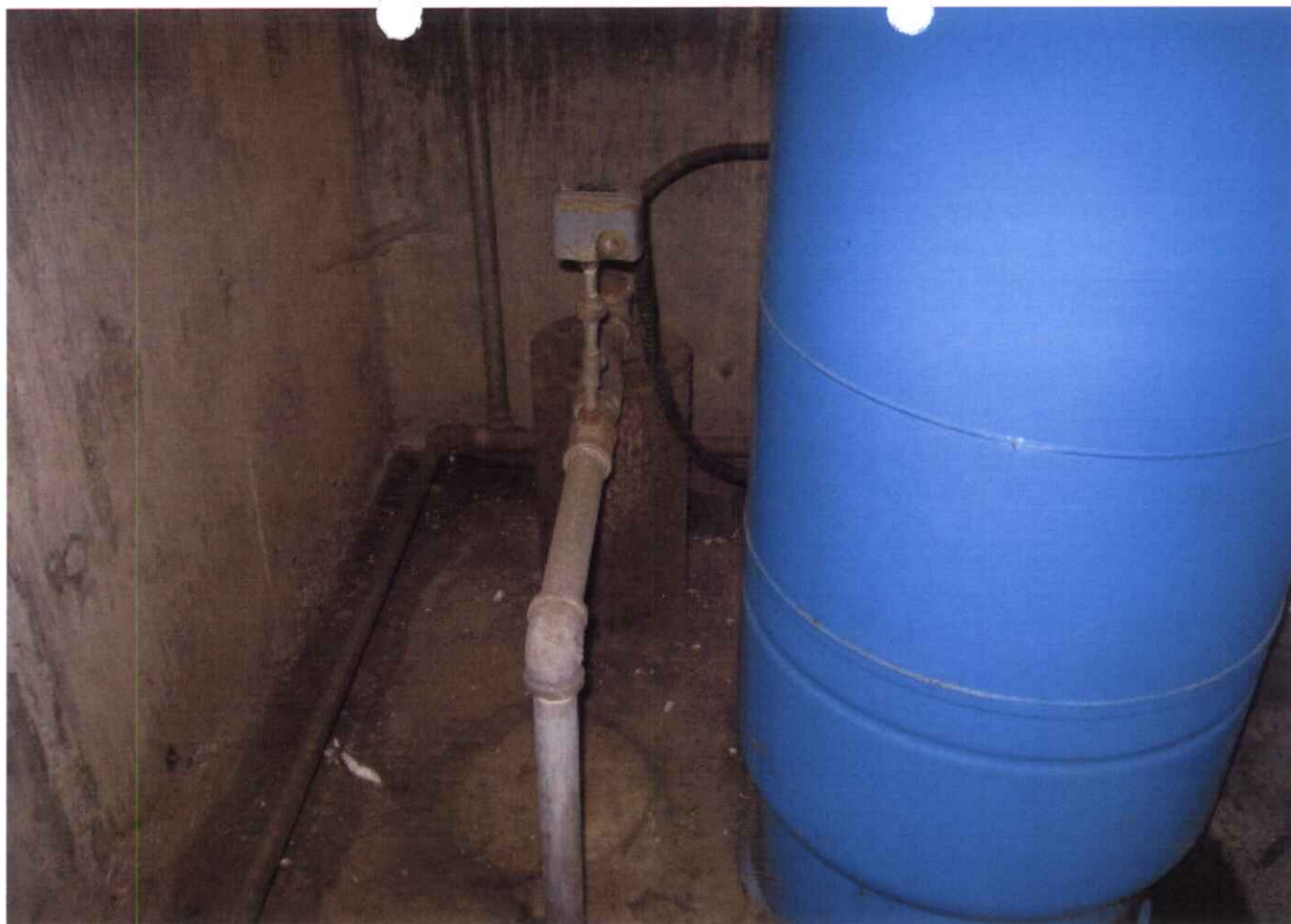
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