

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 87-10044

Exam Date: 10/30/2007

1. Current Owner: CAROL THOMPSON
1402 DEEP CREEK RD
POTLATCH ID 83855
(208)875-1075
2. Accompanied by: UNACCOMPANIED
Phone No: 208-875-1095
Address: SAME AS ABOVE
Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE¼SE¼ Sec. 2, Twp 42N, Rge 05W, B.M. LATAH County
GROUND WATER SE¼SW¼ Sec. 2, Twp 42N, Rge 05W, B.M. LATAH County

Method of Determination:GPS

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
42N 05W 2												12.0			22.0	12.0	46.0
42N 05W 11	5.0	40.0															45.0

Total Acres: 91

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 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>

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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.			87-10044		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = HP*8.8*Eff/H	15	280.7755102	0.7	142	60
Q = 0.330 cfs 147.9 gpm					
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = HP*8.8*Eff/H	10	158.7755102	0.7	20	60
Q = 0.389 cfs 174.4 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 91 \times 3 = 273 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .5 \times 214 \times 1.9835 = 212.2 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 212.2 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUNDWATER FROM 2 POINTS OF DIVERSION FOR THE IRRIGATION OF 91 ACRES. THERE ARE STANDPIPES AND IRRIGATION PIPE ON THE PROPERTY. FIELD EXAM WAS UNACCOMPANIED SO COULD NOT TURN ON WATER. INFORMATION FROM APPLICANT STATED THAT WELL #1 HAS A 15 HP PUMP AND THE STATIC WATER LEVEL IS 142 FT. WELL #2 HAS A 10 HP PUMP AND THE STATIC WATER LEVEL IS 20 FT. THE SYSTEM RUNS AT 60 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	04/01 to 10/31	0.500 CFS	212.20 AF
<u>Totals:</u>		0.500 CFS	212.20 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

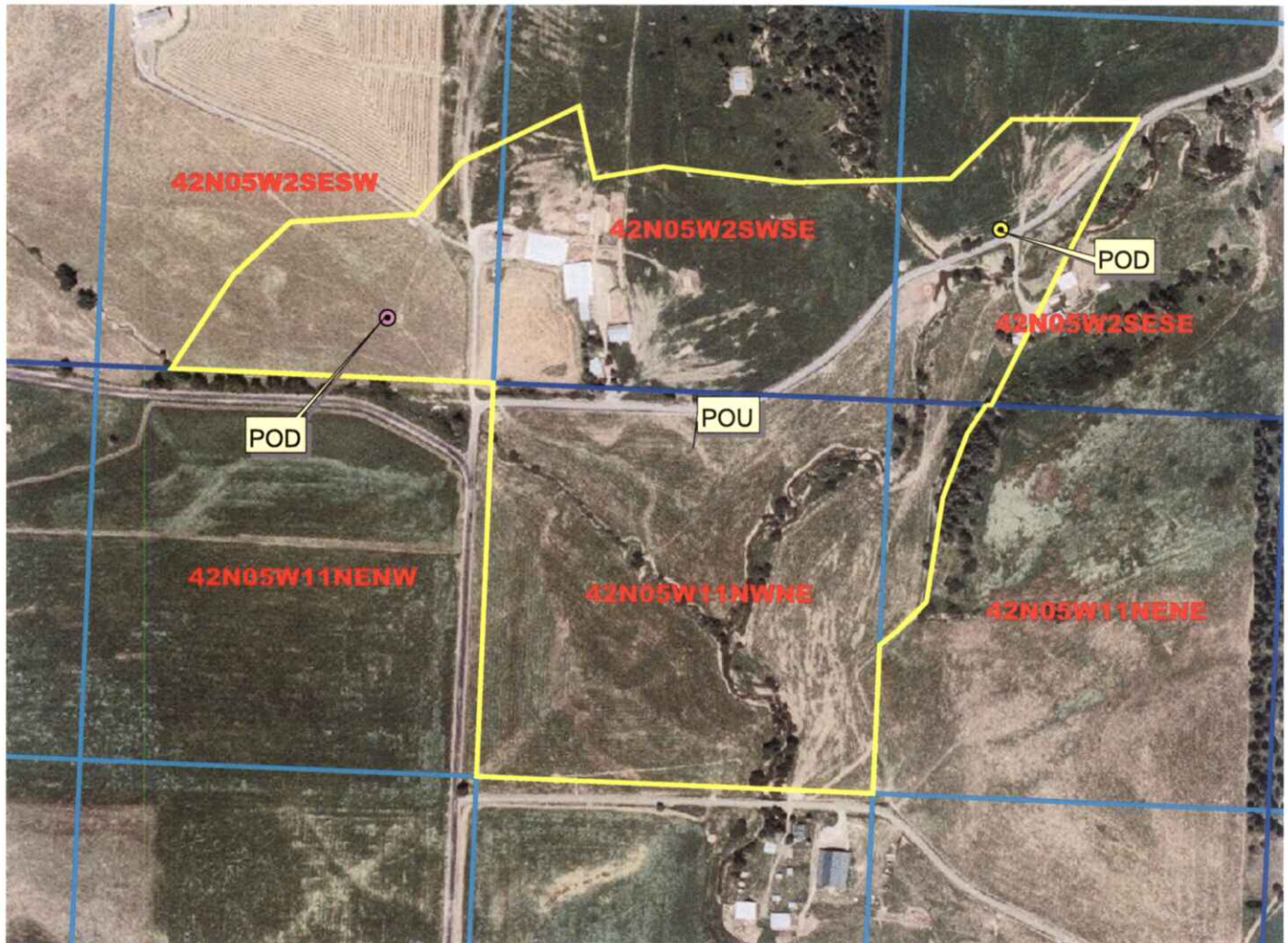
12-10-07

Reviewer

Date

12/10/07

87-10044



0.2 0 0.2 0.4 Miles

- Right POD
- Right POU
- Administrative BasinsAdminbas.shp
- Township/Range
- Sections
- QQ





IRRIGATION PIPE



PLACE OF USE 1



PLACE OF USE 2



PLACE OF USE 3



PLACE OF USE 4



PLACE OF USE 5



PLACE OF USE 6



PLACE OF USE 7



PUMP 1 INFORMATION



STAND PIPES FOR IRRIGATION



SYSTEM



WELL 1



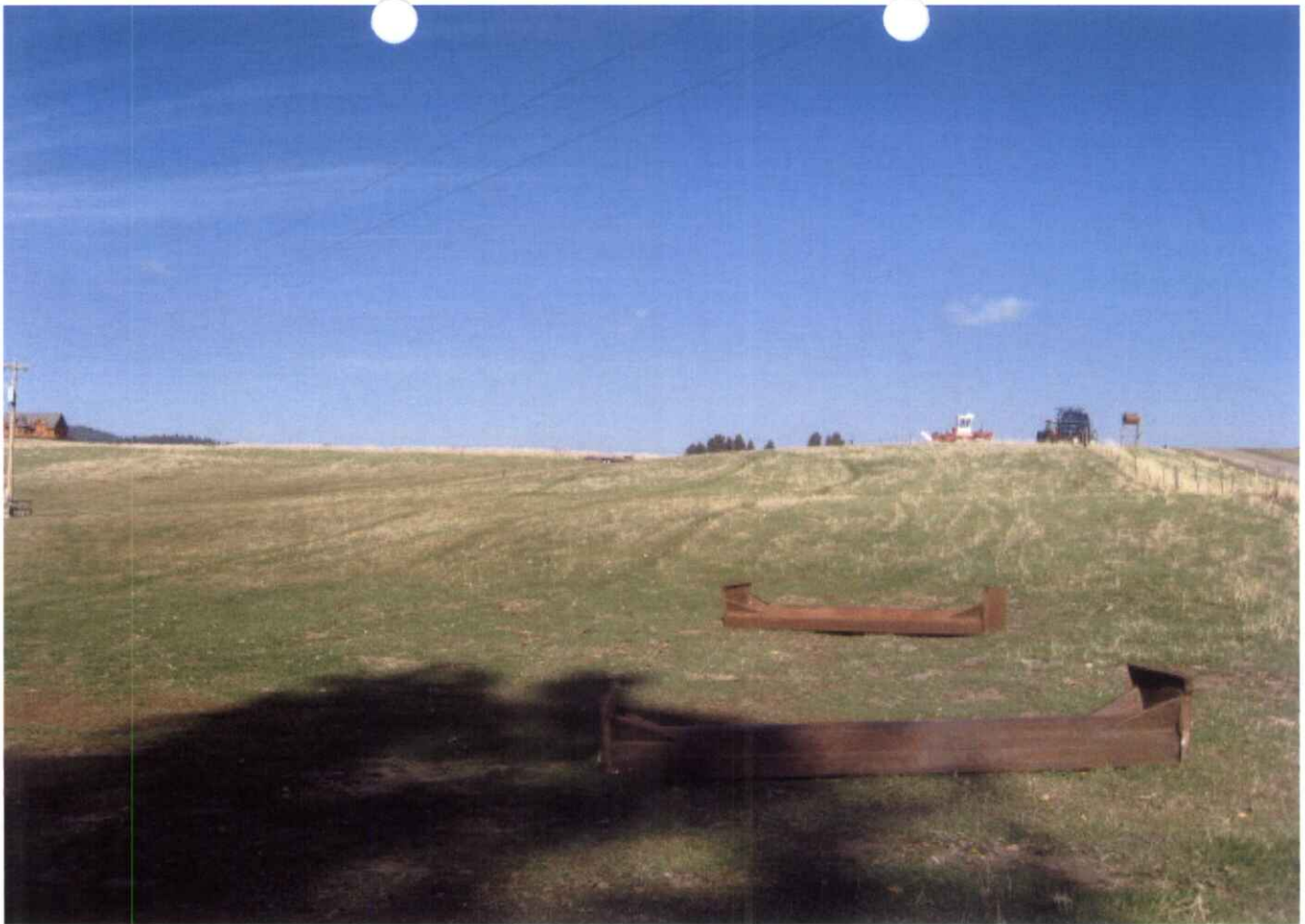
WELL 2

87-10044



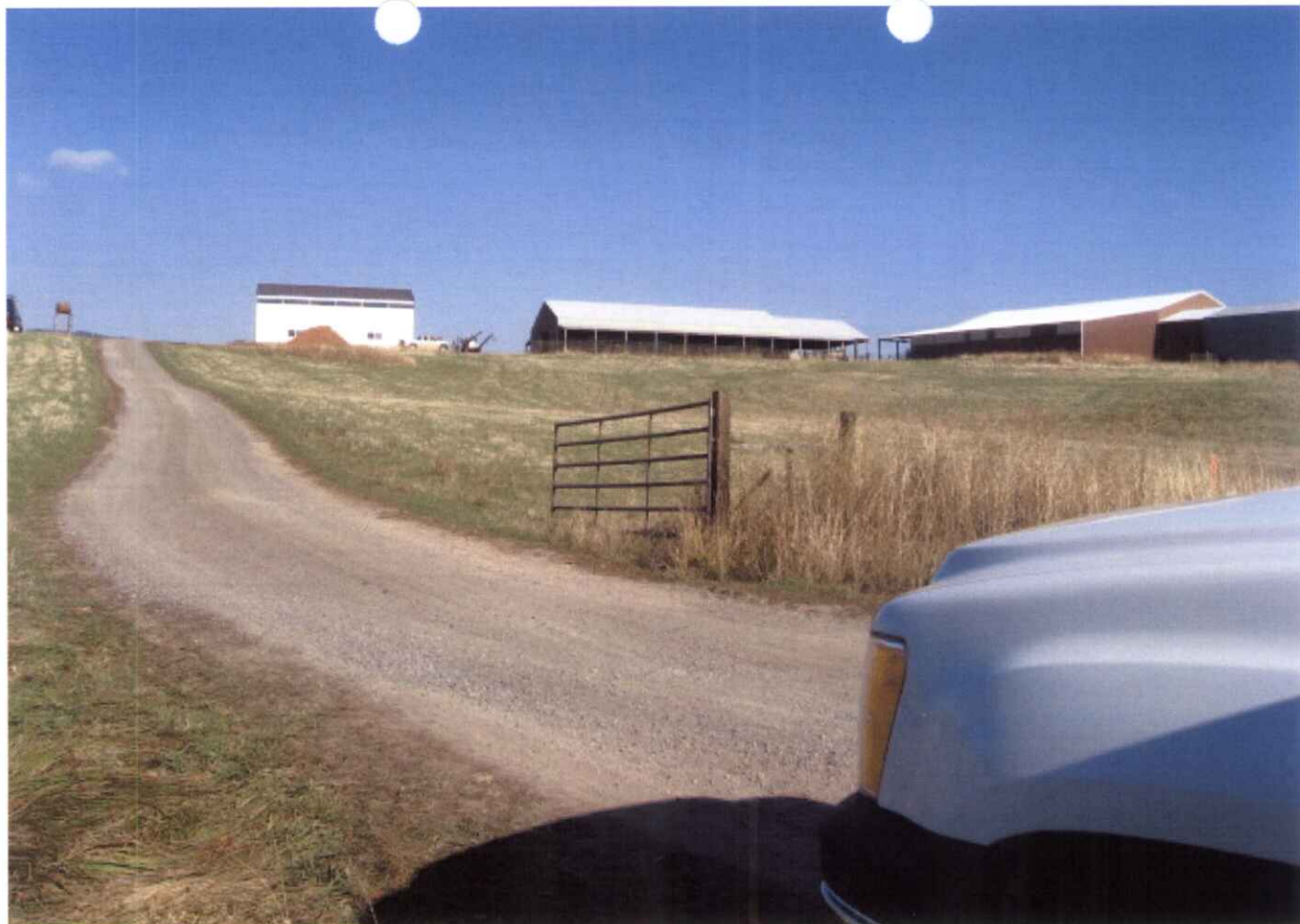
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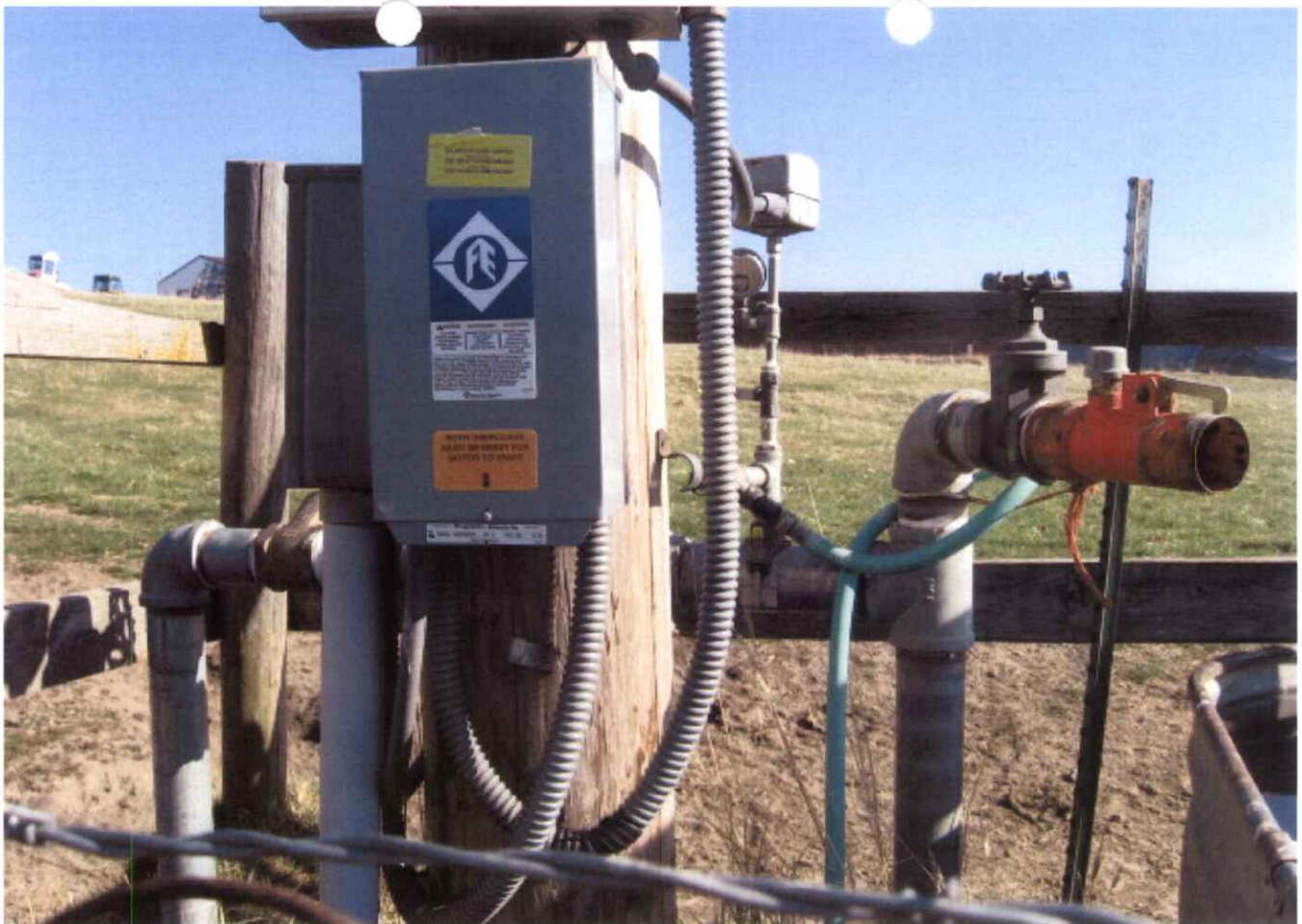
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