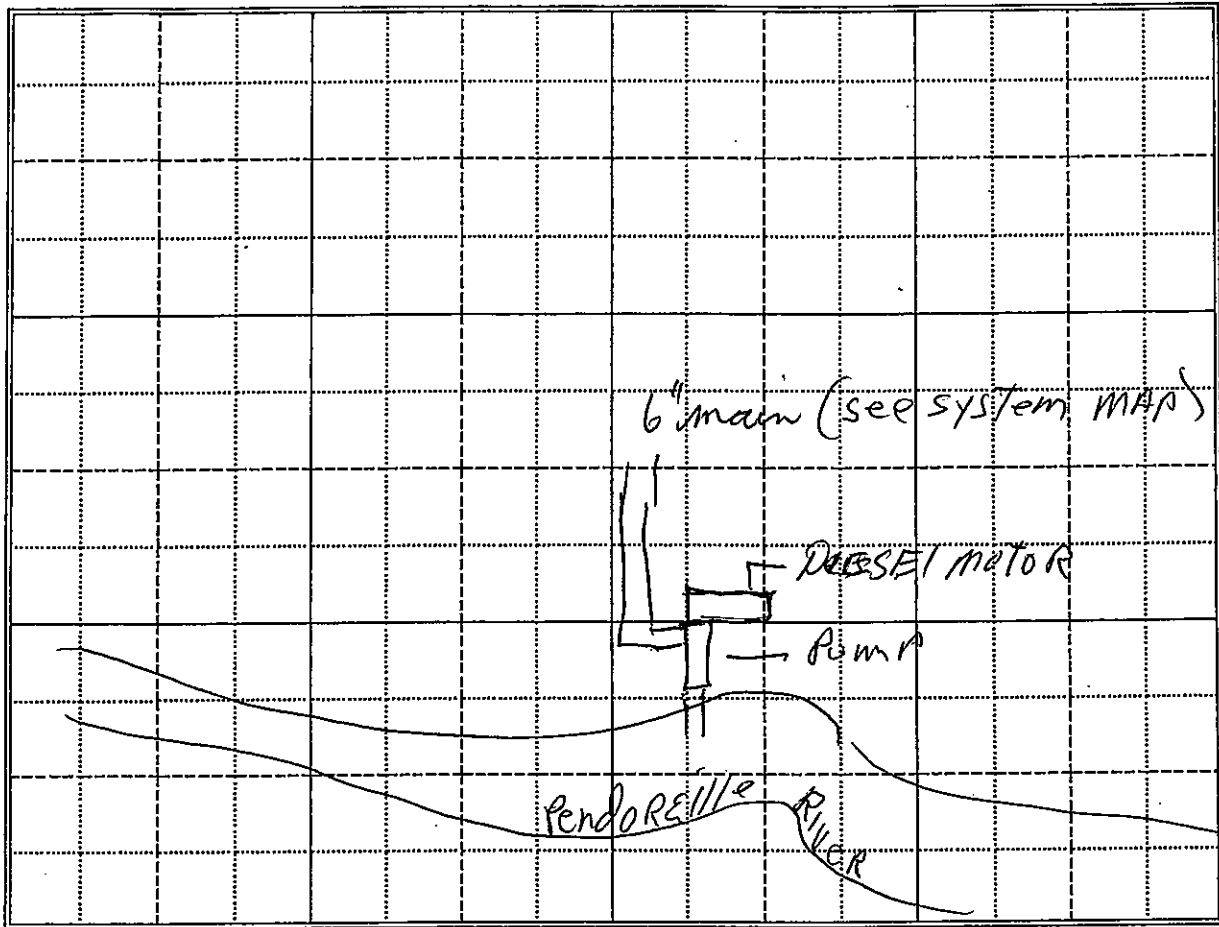


[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.D. as applicable.



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Detroit	110		Bauer	6"

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

E. NARRATIVE/REMARKS/COMMENTS

at the point of diversion a diesel motor hooks to pump. Pump has 6" discharge it feeds a 6" main line buried at 48" deep. There is 3 mi of buried main line on the ranch. Valves are located at various areas, on these valves the big gun is attached too irrigate desired areas. The reel on the big gun holds $\frac{1}{2}$ mi 4" line.

Mr. Bays pumps at 260 gpm. Although the pump is capable of more, it is not economically possible to pump at permit levels.

There are 28 acres in NE NW that wasn't in legal description but were counted in total acres.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Measured Method:

Additional Computation Sheets Attached

Flowmeter 260 gpm

$$\frac{260 \times 1.33681}{60} = 5.7 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 166.8 \times 3 = 500.4$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = .57 \times 245 \times 1.9835 = 276.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 276.9$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Irrigation</i>	<i>03-15</i>	<i>11-15</i>	<i>.57</i>	<i>276.9</i>
Totals:			<i>.57</i>	<i>276.9</i>

2. Recommended Amendments *add 28 ACRES NE NW*

☐ 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

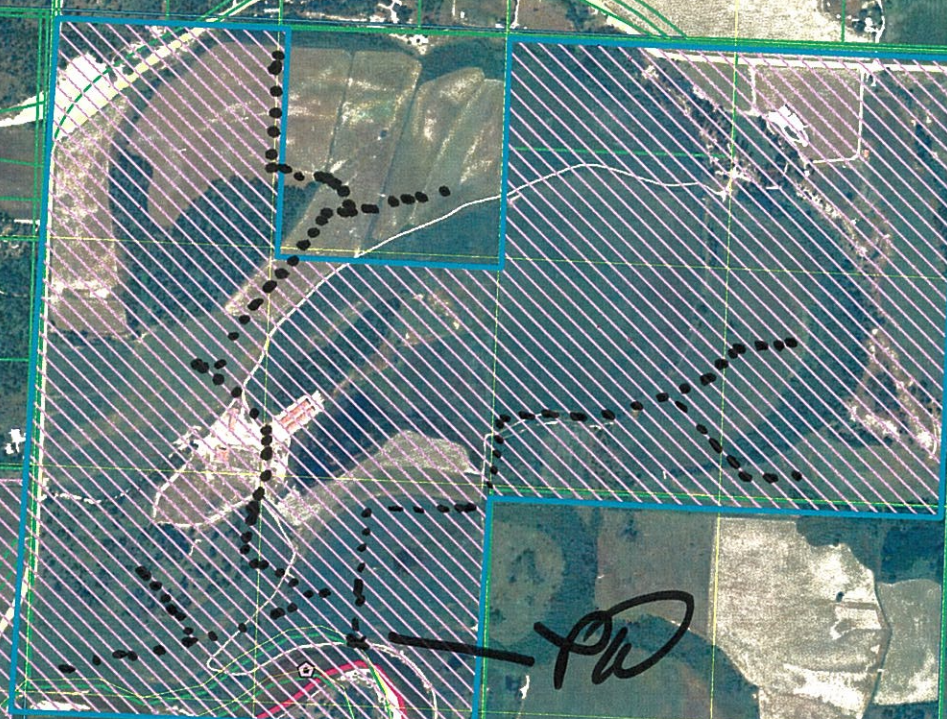
Field Examiner's Name *Wayne Boldwin* Date *8-27-08*

Reviewer *Eirjanna* Date *1-27-2011*

SEAL

97-7302

PN



..... = 6" main Line
Buried 48"

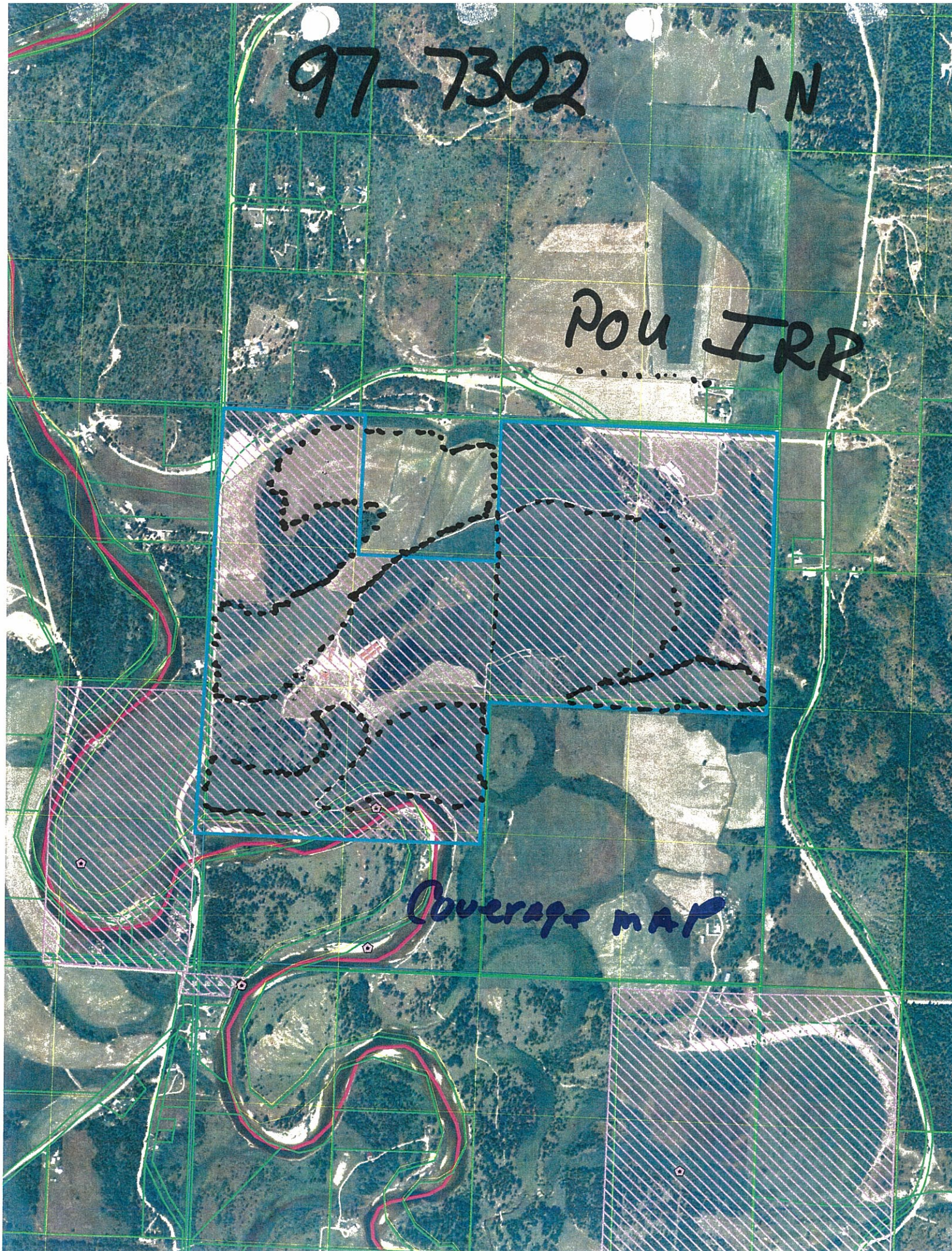
SYSTEM MAP

97-7302

PN

POU IRR

Coverage map



PUMP EQUATIONS**WATER RIGHT No.****97-07302**

	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	110	130.6462585	0.7	15	50
Q = 5.195 cfs 2331.6 gpm					



diesel pump.JPG



nozzle (2).JPG



pod (3).JPG



pod (4).JPG



pump.JPG





