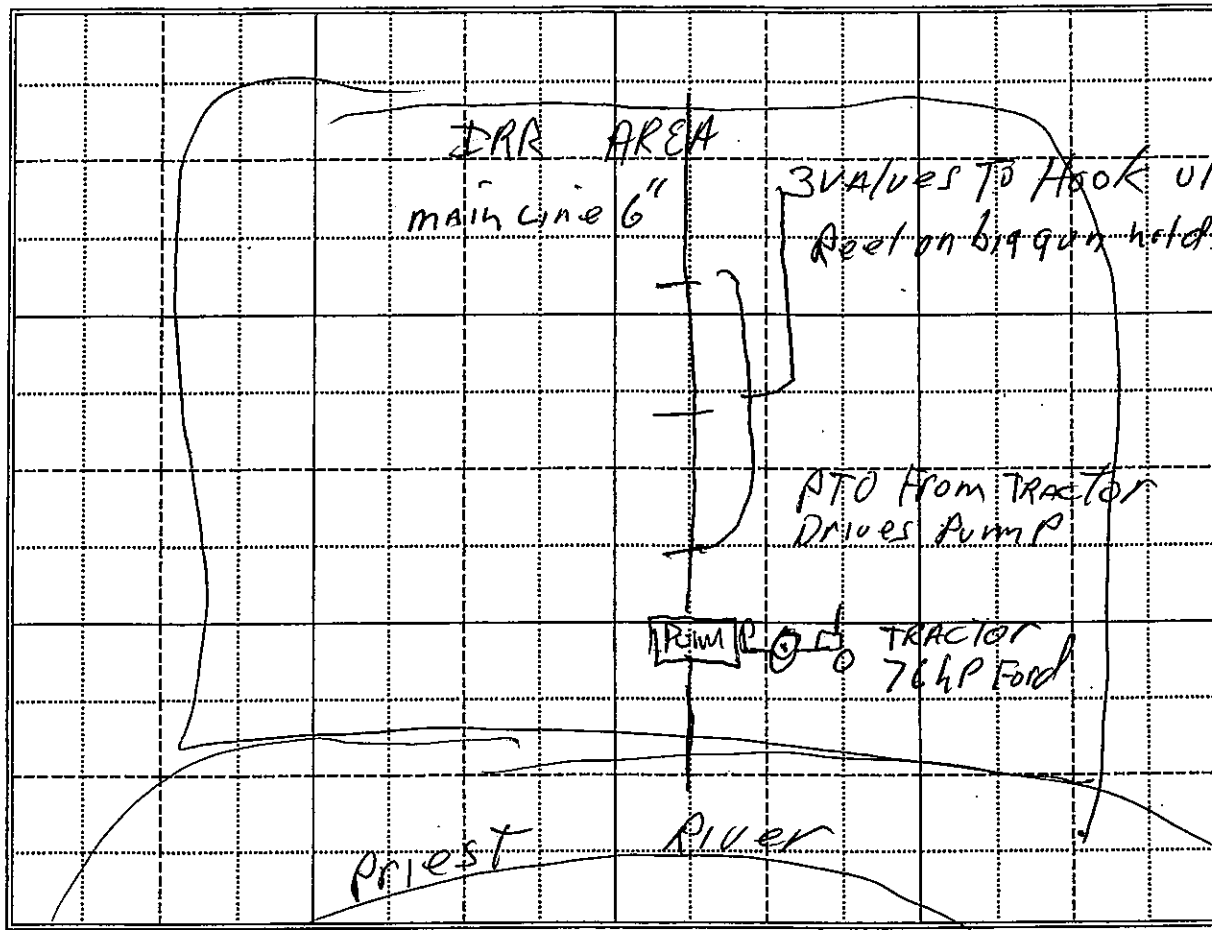


3. Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.D. as applicable.



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
	PTO	76		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

76 hp. Ford tractor with PTO Powers the pump. Pump has 6" outlet and feeds a 6" main trunk buried at 48" deep acrossed field. There are 3 valves acrossed field to connect the big gun to main line. The reel on the big gun holds $\frac{1}{4}$ mile of 4" line.

This same pump and tractor are shared between 97-07326 and 97-07327
This system measured 260 gpm on flow meter

Change PD from SE SE TO NE SE

Mr. Bays sets pump at 260 gpm, although pump is capable of more, it is not economically possible to pump at permitted level.

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

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

There is a flow meter on main line of Permit 97-07326 which runs same pump. manufactures flow chart on big gun running at 50 PSI = 260 gpm = .57 cfs.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 40.1 \times 3 = 120.3$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 120.3$$

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		
Irrigation	03-15	11-15	.57	120.3
Totals:			.57	120.3

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

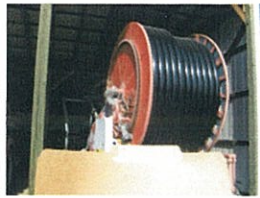
Field Examiner's Name Wayne Baldwin Date 8-27-08

Reviewer [Signature] Date 1-12-2011

SEAL



017.JPG



big gun (2).JPG



irr.JPG



nozzle.JPG



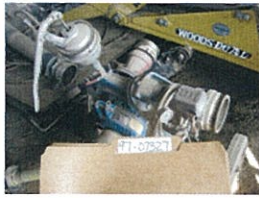
pod (2).JPG



pou (6).JPG



powers pump.JPG

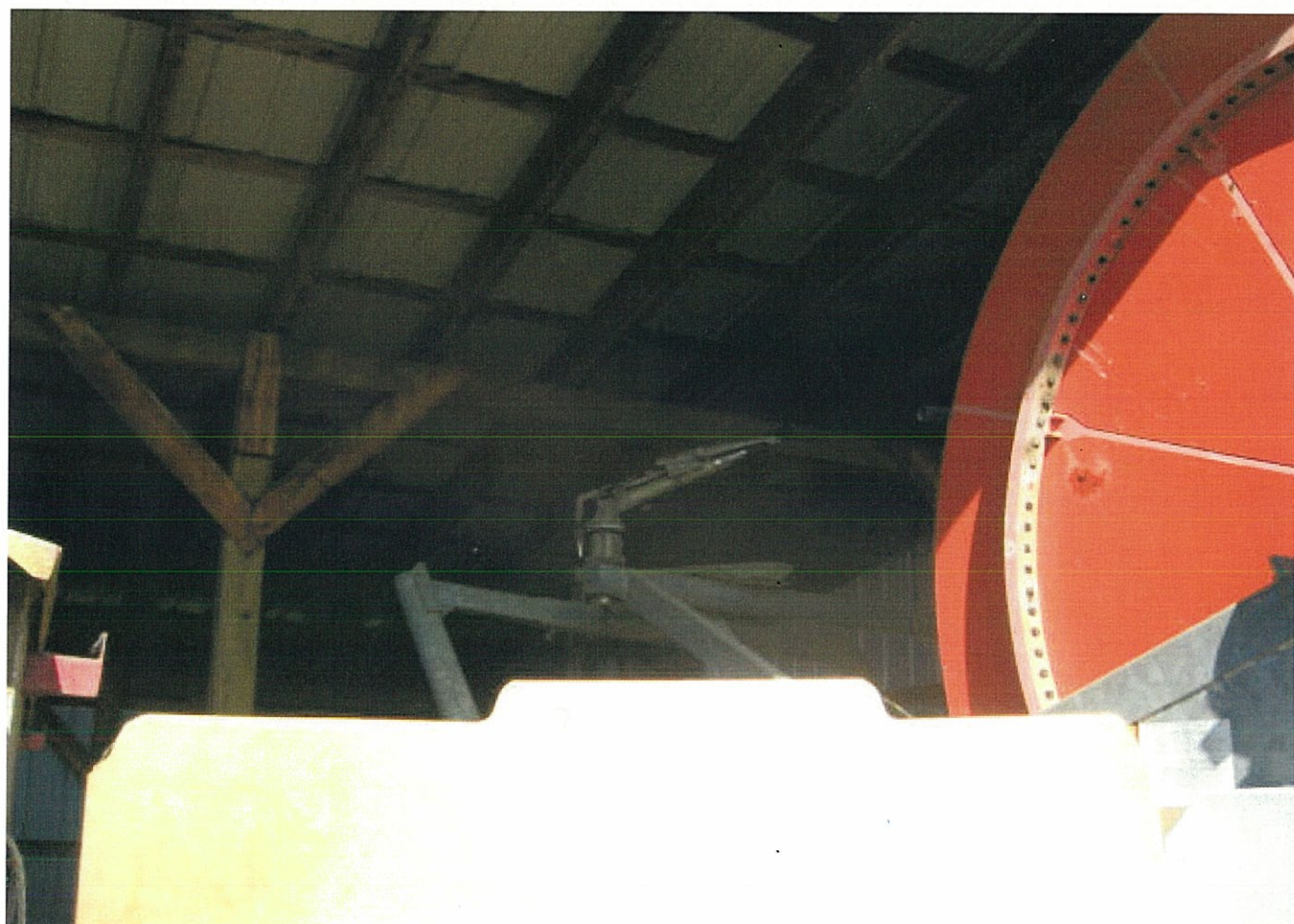


pto pump.JPG



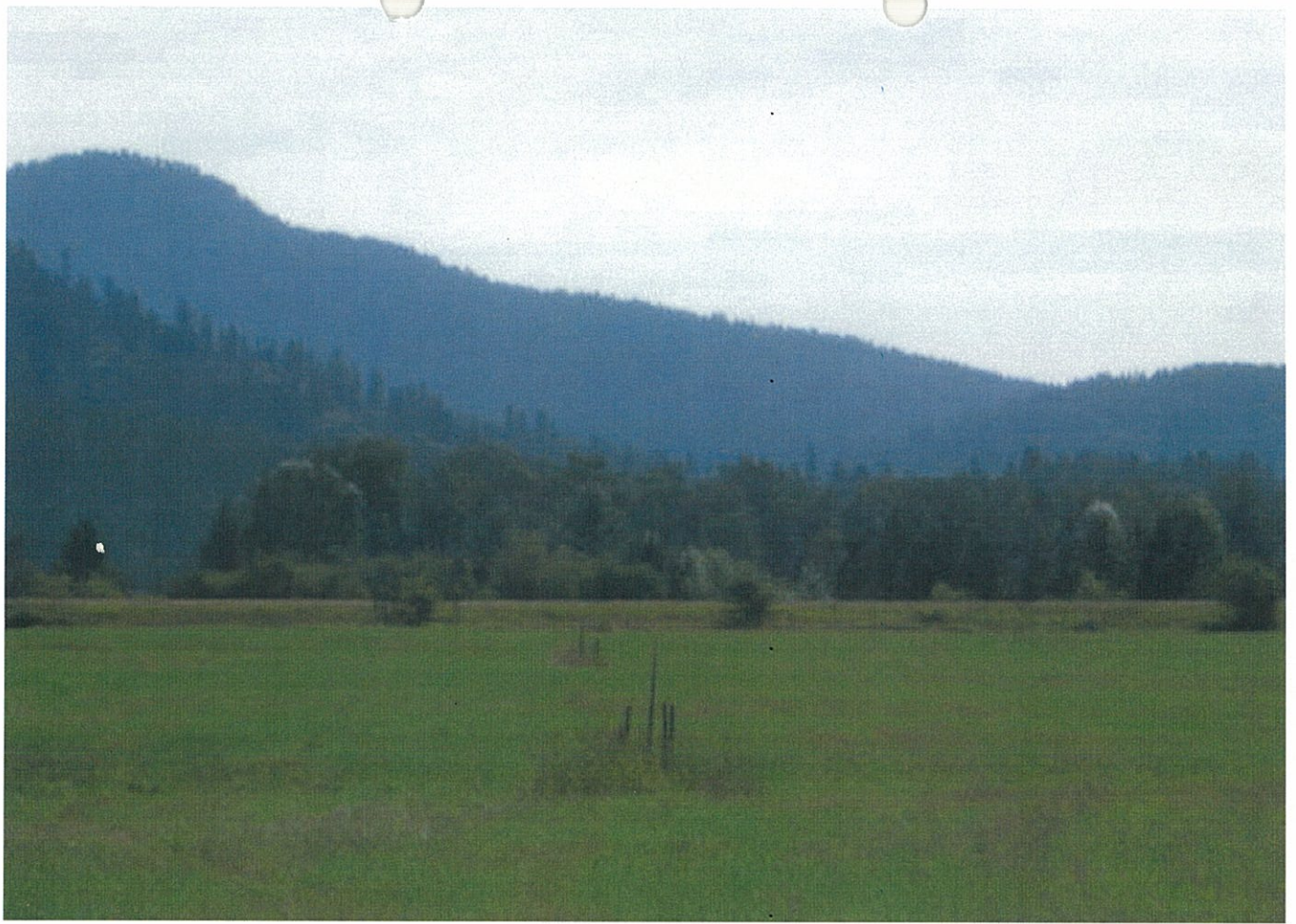
trunk valves to hook big
gun.JPG







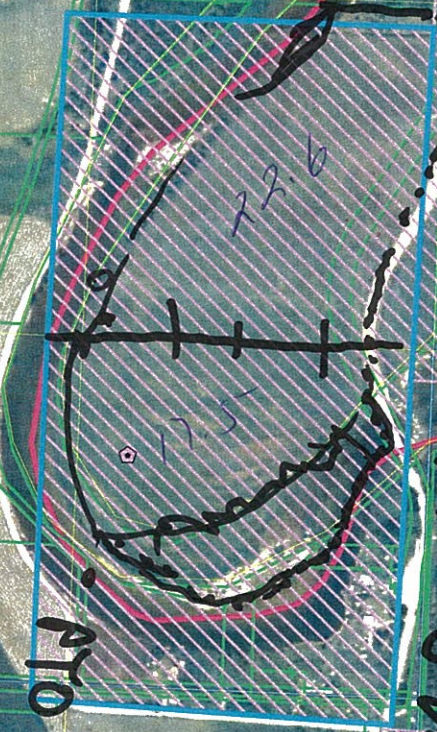




PUMP EQUATIONS					
WATER RIGHT No.			97-07326 97-07327		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff} / H$	76	130.6462585	0.7	15	50
Q = 3.589 cfs 1610.9 gpm					

97-07327

AN



PTO Pump

6" main 3 valves (big gun)

97-07327

AN

Runs big gun

RD

