

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-7590

Exam Date: 8/15/2012

1. Current Owner: PARAGON RANCH INC
1614 HERMAN LAKE RD
MOYIE SPRINGS ID 83845
2. Accompanied by: OWNER
Phone No: 208-267-9501
Address:
Relationship to Permit Holder: OWNER

3. SOURCE

UNNAMED LAKES

TRIBUTARY

KOOTENAI RIVER

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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED LAKES	NE1/4SW1/4	Sec. 34,	Twp 62N,	Rge 03E, B.M.
BOUNDARY County				
UNNAMED LAKES	NE1/4SW1/4	Sec. 34,	Twp 62N,	Rge 03E, B.M.
BOUNDARY County				

Method of Determination: GPS

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
62N	03E	34									6.0						4.0		10.0

Total Acres: 10

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.

Well or DiversionID No.*Motor MakeHpMODEL NUMBER.Pump MakePump Serial No. or Discharge Size

MAP

FRANKLIN

5HP

2821138310

FRANKLIN

TWO PUMPS

D. FLOW MEASUREMENTS: TOTAL FLOW IS 0.44 CFS

		PUMP EQUATIONS	PUMP # 1			
		WATER RIGHT No.		98-7590		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	5	140.0816327	0.7	36	45
Q =	0.220	cfs	98.8	gpm		
		PUMP EQUATIONS	PUMP # 2			
		WATER RIGHT No.		98-7590		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	5	140.0816327	0.7	36	45
Q =	0.220	cfs	98.8	gpm		

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 10 \times 3 \text{ AF} = 30 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.2 \text{ CFS} \times 214 \times 1.9835 = 84.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 30 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

The owner of this water right was at the property on the day of this exam. The only use on this permit that was put to use is irrigation from the lake by the home. Two five horse power pumps that supply water to 10 ac of land. The irrigation system is 3 zones of popup rain bird sprinklers by the orchard and 12 drip zones. The lawn by the home has 11 zones with 12 heads per zone. Lawn by the lake is watered by 18 zones with 6 sprinkler heads per zone. The map in the application showed two points of diversion from this lake in the NW SW. This is the reason IDWR is not requiring an amendment to this water right for the addition of the point of diversion.

The permit was intended to have a storage component of five acre feet per year from the unnamed lake for irrigation storage and a diversion rate to the lake. Due to the lake being on stream and that the lake is not a reservoir no storage was ever formed. The irrigation volume from this source is derived from the head gate requirements of three acres feet per year per acre.

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	0.200 CFS	30.00 AF
<u>Totals:</u>		0.200 CFS	30.00 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 Eric J. Smith Date 1-29-2013

Reviewer Keith L. Smith Date 1/29/13



IRRIGATION.JPG



SYSTEM.JPG



SOURCE.JPG



USE AND PIPE.JPG



POD.JPG



USE.JPG





