

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 72-16980  
**Exam Date:** 07/09/2020

1. Current Owner:  
ROBERT PAUL LIND 24055 HIGHWAY 75 CHALLIS ID 83226-1604
2. Accompanied by:  
Phone No: Robert Paul Lind  
Address: 24055 Highway 75, Challis ID 83226-1604  
Relationship to permit Holder: Permit Holder

3. **SOURCE:**  
SALMON RIVER

**Tributary**  
SNAKE RIVER

**Method of Determination:** On-site inspection

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: No overlap

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
72-10113	Salmon River	Irrigation	Decreed

Comments: Used to Irrigate 4 acres and stockwater on adjacent parcel to the west (RP0003800001A)

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**  
SALMON RIVER L8 ( NW¼ SW¼), Sec. 28, Twp 13N, Rge 19E, B.M. CUSTER County

Method of Determination: On-site inspection

**PLACE OF USE: IRRIGATION**

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	19E	28										2.5							2.5
13N	19E	28										0.1							0.1

Total Acres: 2.6

**PLACE OF USE: STOCKWATER**

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	19E	28										X							
												L8							

Method of Determination: On-site Inspection

3.

X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

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

X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		15			

**D. FLOW MEASUREMENTS**

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: No measurement required per IDAPA 37.03.02 Beneficial Use Examination Rules as the flow rate for the total diversion (0.19 CFS total; this permit at 0.07 CFS & 0.12 CFS for 72-10113) falls below the 0.24 cfs or greater flow rate requiring measurement.

**E. FLOW CALCULATIONS**

Additional Computation Sheets Attached

Measured Method: IDWR records indicate the pump is 15 Hp. Permit holder was irrigating approximately 3.5 acres on day of field exam under water right 72-10113 and this permit. System clearly produces sufficient flow to satisfy permitted rate.

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.6 \text{ acres} \times 3.5 \text{ I.R.} = 9.1 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.07 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 29.71 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{9.1 \text{ AF}}$$

2. Volume Calculations for Other Uses: Stockwater: On the day of the exam there were two horses on the property, Mr. Lind indicated that he has people come stay with him to train for extreme running competition events and they sometimes bring horses with them and that he has had as many as eight horses on the property for extended periods of time.

$8 \text{ horses} \times 12 \text{ gallons per day} \times 365 = 35040 \text{ gal} / 325,850 \text{ gal per af} = 0.1 \text{ AF}$

#### G. NARRATIVE/REMARKS/COMMENTS

Application for permit, 72-16980, was filed with the Department on 11/22/2019, permit was approved 3/20/2020 and proof of beneficial use was filed 6/15/2020. Mr. Lind told me that when he filed proof of beneficial use prior to the due date of 4/1/2021, he received a call from the state office asking him if he was sure he wanted to file it prior to the due date. He indicated that he told them the system was complete and he was ready to complete the water right process. This permit was filed to irrigate a parcel adjacent to his home that he had recently purchased to expand his horse pasture and prevent further encroachment upon his home by someone potentially buying the lot and building a home on it.

When I arrived at the property, Mr. Lind was irrigating approximately 3.5 acres, about 1 acre under this permit and 2.5 acres under water right 72-10113 (0.120 cfs for the irrigation of 4.0 acres). The irrigation system was developed by adding 2" K-line (a brand of black polyethylene pipe) with K-pods (round pods with impact sprinklers that are installed on the pipe in a manner similar to a drip system) to his existing irrigation system that was developed by a previous owner (irrigation of 4.0 acres under water right 72-10113). He had four sets of k-line with 4 sprinklers on each line set used to irrigate the 2.6 acres parcel. Currently, the lot is a mix of native vegetation and pasture grasses he started planting last fall and he indicated he moves the line sets and irrigates the entire lot. Mr. Lind indicated he intends to promote the pasture grass and remove the native vegetation. The point of diversion is a 15 Hp pump with a screened intake from the river that pumps the water up to the irrigation system for both this permit and water right 72-10113. He also showed me his current stockwater tank on the parcel, which was a plastic barrel with poly pipe and a valve delivering stockwater to the barrel. He indicated that he also intends to add a larger trough after he gets more pasture grass established and grazes his horses on the parcel more often. Currently, he has two horses on the property, but indicated at times he has had up to eight horses there for extended periods.

Recommend licensing water right as permitted with a volume of 9.1 acre feet for irrigation and 0.1 acre feet for stockwater use.

Have conditions of permit approval been met? ☒ Yes ☐ No

#### H. RECOMMENDATIONS

##### 1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Volume</u>
IRRIGATION	04/01 to 10/31	0.05 CFS	9.1 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF

**Totals:** 0.07 CFS 9.2 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 ☒ None

#### I. AUTHENTICATION

Bill Mills - Water Resource Agent, Senior

Field Examiner's Name

Date

Reviewer

Date

7-16-2020

7/28/2020





Figure 1: K-Pod on K-line



Figure 2: Irrigation on south end of parcel





Figure 3: Current stock "trough"



Figure 4: North end of parcel





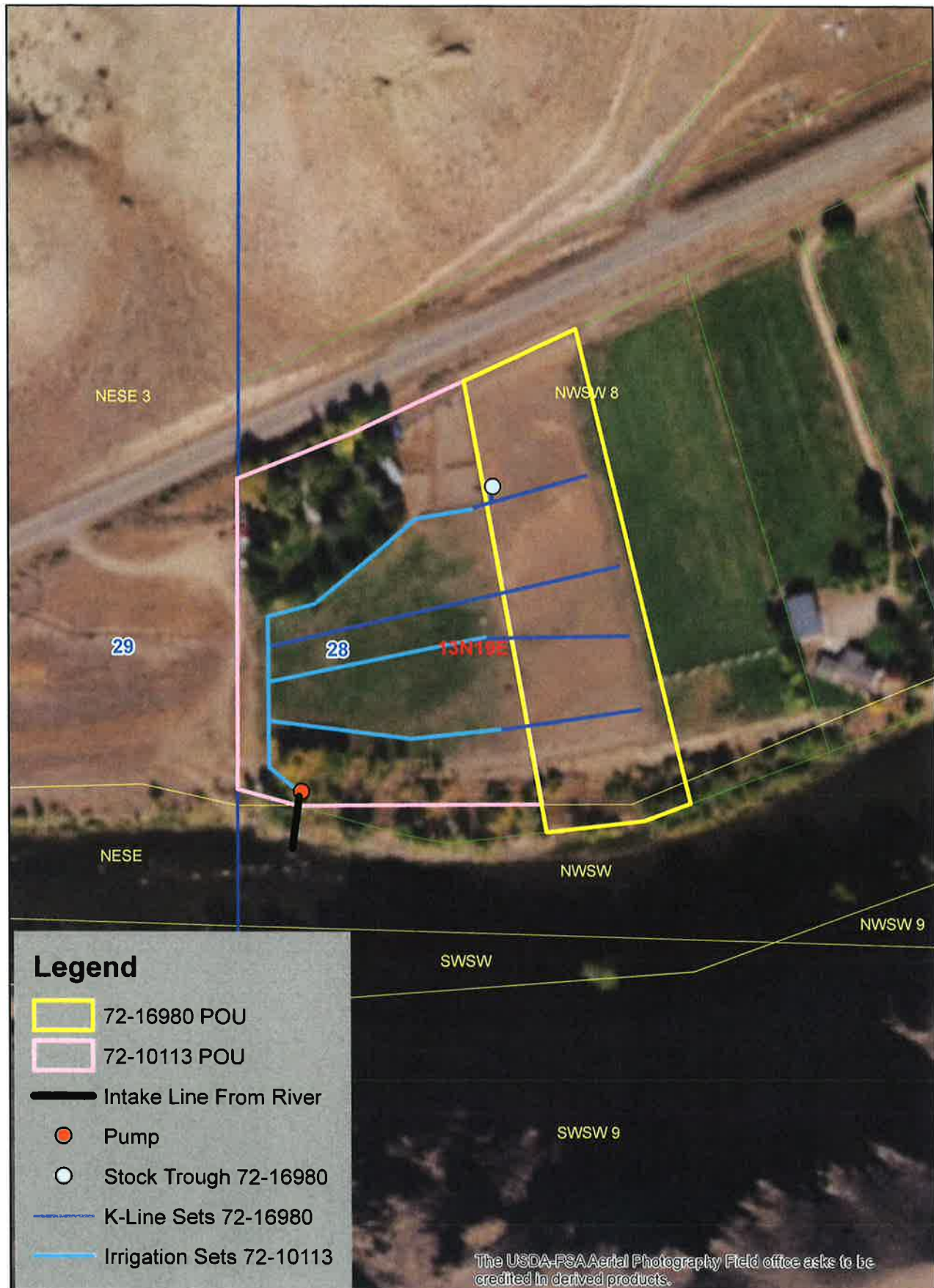
Figure 5: Pump



Figure 6: Intake from river



# System Diagram



Field Exam 72-16980