

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 74-16067
Exam Date: 9/24/2019

1. Current Owner:
CLIFFORD L ZIELKE
PO BOX 1201
SALMON, ID 83467
2. Accompanied by: CLIFFORD L ZIELKE
Phone No: 208-303-0143
Address: PO BOX 1201
SALMON, ID 83467
Relationship to permit Holder: OWNER

3. **SOURCE:**
WIMPEY CREEK

Tributary
LEMHI RIVER

Method of Determination: Field exam and aerial imagery

B. OVERLAP REVIEW

1. Other water rights with the same place of use: No Overlap
2. Other water rights with the same point-of-diversion:

Water Right No.	Source	Purpose of Use	Basis
74-2183A	Wimpey Creek	Irrigation	Decreed
74-2183B	Wimpey Creek	Irrigation	Decreed
74-2183C	Wimpey Creek	Irrigation	Decreed
74-15874	Wimpey Creek	Irrigation	Decreed
74-16031	Wimpey Creek	Irrigation	Decreed
74-16028	Wimpey Creek	Irrigation	Decreed
74-15873	Wimpey Creek	Irrigation	Decreed
74-15840	Wimpey Creek	Fish propagation	License

Comments: All of the overlapping rights share the W-4 diversion in NESW, Sec. 35, T21N, R23E, which was built by Dept. of Fish and Game. The water enters a ditch that delivers the individual water rights. Right 74-15840 is for Fish and Games fish bypass structure at the diversion.

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

WIMPEY CREEK NW¼ SE¼, Sec. 35, Twp 21N, Rge 23E, B.M. LEMHI County
WIMPEY CREEK NE¼ SW¼, Sec. 35, Twp 21N, Rge 23E, B.M. LEMHI County

Method of Determination: Field exam and aerial imagery

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	
21N	23E	35								X	X								

Method of Determination: Field exam and aerial imagery

D. FLOW MEASUREMENTS

1. Measurements: None taken

E. FLOW CALCULATIONS

1. Flowrate estimation for siphon from ditch using Manning's Equation under full pipe conditions. The conduit was 1.5 inch plastic pipe. The applicant reported the pipe is ~600 feet long, and has an elevation drop of 10 inches. The calculated flowrate for the siphon alone is less than the rate permitted.

$$Q_{full} = \frac{0.464}{n} D^{8/3} S^{1/2} = \frac{0.464}{0.009} \left(\frac{1.5}{12} ft \right)^{8/3} \left(\frac{\left(\frac{10}{12} \right) ft}{600 ft} \right)^{1/2} = 0.01 cfs$$

2. The pumped diversion consists of a transfer pump powered by a Honda GX 160 motor rated at 5.5 horsepower. Specifications for the pump state a maximum flow of ~10,000 gal/hr, which exceeds the permitted rate.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: No irrigation
2. Volume Calculations for Other Uses: None. Permit is limited to 13,000 gallons per day. Recommended this be carried over to the license.

G. NARRATIVE/REMARKS/COMMENTS

The system consists of two diversions; one is a siphon from the ditch off the W-4 diversion on Wimpey Creek, and the second is a privately owned pump that diverts directly from Wimpey Creek. There are two pastures for livestock that are separated by Wimpey Creek Rd. The siphon is used to fill a small stock pond in the pasture south of the road. Water can be pumped from the pond to a stock tank in the pasture north of the road. The pumped diversion can be used to fill either the pond or the stock tank.

Have conditions of permit approval been met? x Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
STOCKWATER	01/01 to 12/31	0.04 CFS

Totals: 0.04 CFS

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above x None

 Change P.U. as reflected above Add P.U. as reflected above x None

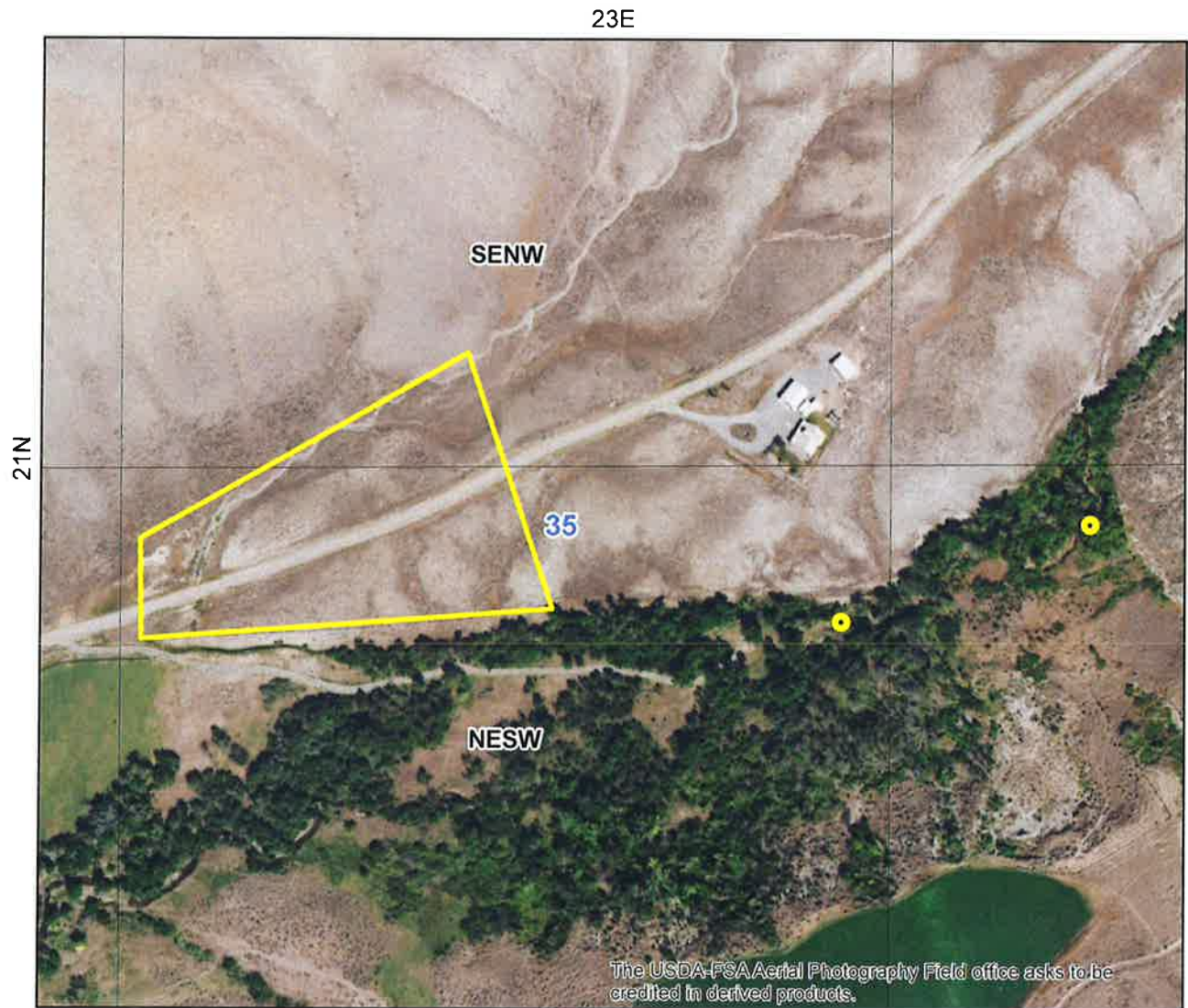
I. AUTHENTICATION






Field Examiner's Name: Brian Normandeau

Date: 1/15/2020


Reviewer: James Cefalo Date: 1/28/2020

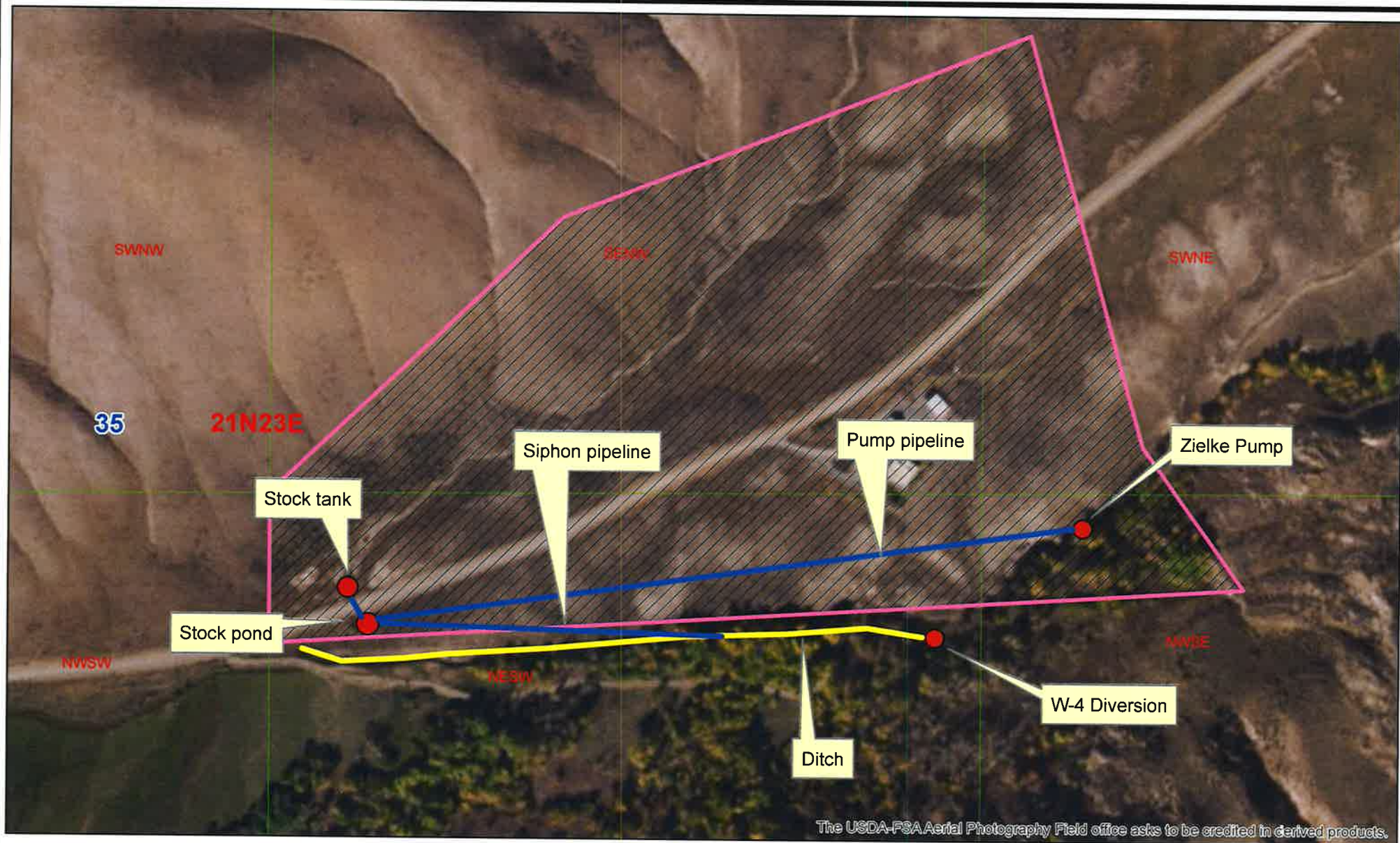
State of Idaho
Department of Water Resources
Water Right License
74-16067
Clifford L Zielke



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 200 400 800 Feet





The USDA-PSA Aerial Photography Field office asks to be credited in derived products.

Legend

- 74-16067_POU
- Township/Range
- Sections
- QQ

0 120 240 480 Feet

1 inch = 250 feet

Water Permit 74-16067 Beneficial Use Exam Map





Photo 1: Pump diversion from Wimpey Creek in NWSE Sec 35 T21N R23E



Photo 2: W-4 diversion on Wimpey Creek in NESW Sec 35 T21N R23E

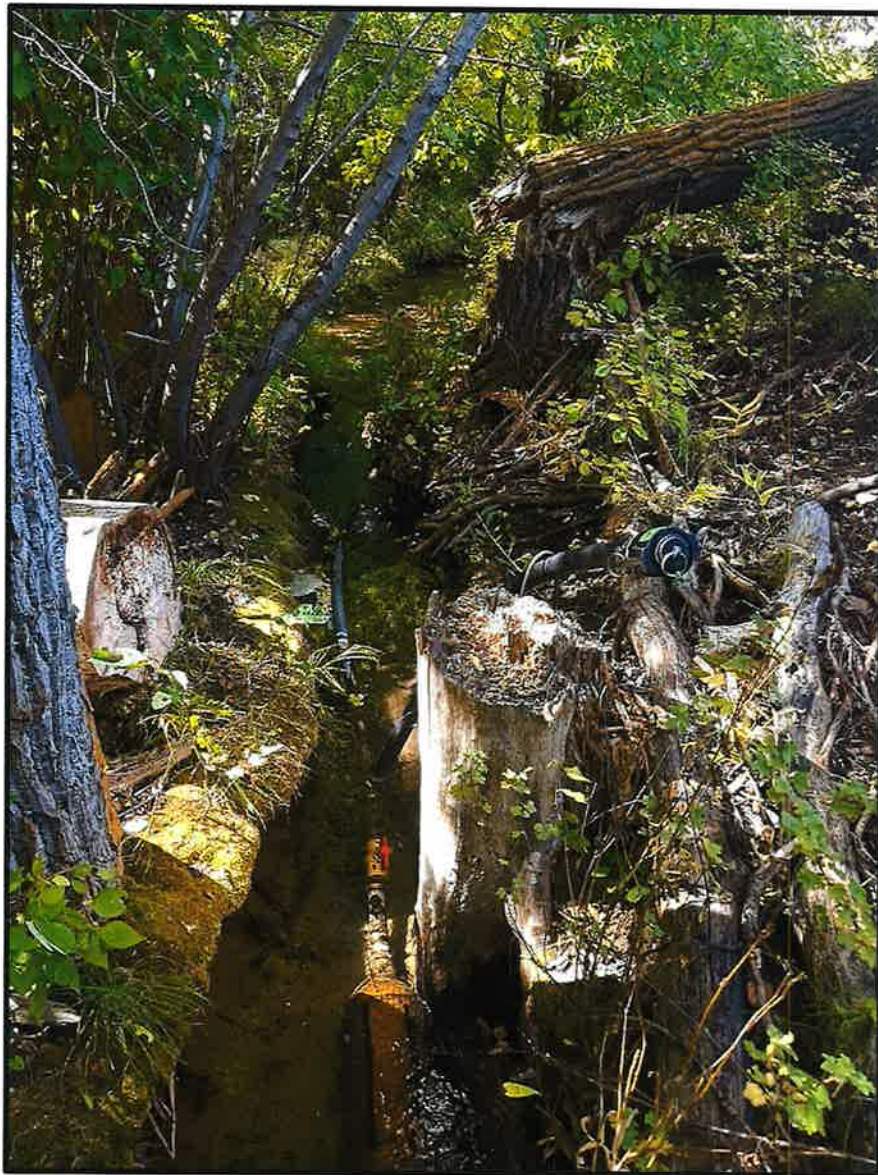


Photo 3: Close-up of the siphon inlet in the ditch.



Photo 4: East facing view of the ditch supplied by the W-4 diversion shown in Photo 2. The siphon pipeline is visible running through the ditch.



Photo 5 (Above): View of the small stock pond in the pasture south of Wimpey Creek Rd.

Photo 6 (Left): Close-up of the siphon outfall that fills the pond from the ditch.



Photo 7 (Left): View of the pipeline used to transfer water from the the stock pond to the stock tank in the pasture north of the road.

Photo 8 (Below): Stock tank in the northern pasture.

