

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 81-12009
Exam Date: 06/15/2021

1. Current Owner:
MARLOUS HICKS 545 RED FIR RD KOOSKIA ID 83539-5135 AND
DOUG HICKS 545 RED FIR RD KOOSKIA ID 83539-5135
2. Accompanied by: Marlous Hicks
Phone No: 208-926-4385
Address: Same as above
Relationship to permit Holder: Permit holder

3. SOURCE:
SPRING

Tributary
SINKS

Method of Determination: Arcmap and DRG.

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: NO Overlap

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

SPRING NE¼ NE¼ SW¼, Sec. 22, Twp 32N, Rge 05E, B.M. IDAHO County

Method of Determination: GPS. POD is a spring source located at -115°49.120, 46°05.864.

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	
32N	05E	22									X								

Method of Determination: Field exam and Arcmap aerial imagery.

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 Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
NONE					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Unable to perform a flow measurement; low flow spring water flowed directly into a small 24 hr impoundment basin where cattle drank directly from. The spring water flow where it daylighted from an eroded bank appeared to be approximately 5 gpm, and **0.01 cfs** is recommended for licensing purposes.

E. FLOW CALCULATIONS

Measured Method: Field exam observation of spring flow. The spring water flow where it daylighted from an eroded bank appeared to be approximately 5 gpm, and 0.01 cfs is recommended for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: Stockwater annual volume =
 - (100 head cattle + 3 horses) x 12 gpd x 365 day per year = 451,140 gal per year / 325,850 gal per afa = **1.4 af** considering department rounding standards.

G. NARRATIVE/REMARKS/COMMENTS

Admin Note: Permit 81-12009 was issued with two spring source PODs that are in different geographic locations and do not co-mingle in the same water system. As such, this permit was split into 81-12030 which accounts for the water source located in the NE¼ NW¼ NE¼, Sec. 27, Twp 32N, Rge 05E.

Field exam performed on 6/15/2021 with the applicant, Marlous Hicks, showed a spring source being used for stockwater purposes. At the POD, spring water daylighted from an eroded embankment and flows directly into a shallow 24 HR impoundment basin. I was unable to perform a flow measurement; low flow spring water routed directly into the small basin and appeared to be approximately 5-6 gpm. Based on low flow present early in the summer, it is reasonable to assume the spring maintains low flow throughout the peak runoff season coming into summer, and **0.01 cfs** is recommended for licensing purposes. Additionally, this permit's approved diversion rate of 0.03 cfs has been split between this right and 81-12030 which accounts for the other 0.02 cfs authorized to develop.

The stockwater POU was refined from the permit approved area for development, to the area where cattle & horses drink directly from the spring source & 24 HR impoundment basin. Field maps were used to trace out the area of stock use which benefit from the spring source, and during licensing review Arcmap aerial imagery was used to designate the stockwater POU. At time of exam, the applicant's herd was grazing further south using the 2nd water source that was permit approved for, but evidence of stock use was apparent around the small basin. The annual volume & maximum diversion volume recommended for licensing equals (100 head cattle + 3 horses) x 12 gpd x 365 day per year = 451,140 gal per year / 325,850 gal per afa = **1.4 af** considering department rounding standards.

Conditions 26A and X02 were removed from the permit during licensing review. Condition X35 was added to describe stockwater volume combined use between rights 81-12009 & 81-12030 due to the same herd of cattle/horses use both water sources throughout the year but not congruently. Condition 197 was added due to this water right residing in a Wild & Scenic (W&S) water basin. The verbiage of condition 197 are not required to license this permit, rather designate the potential for future management requirements by the department if implemented for the W&S basin. The W&S database was updated to reflect Middle Fork Clearwater River, debited rate of 0.01 cfs, for De Minimus Stockwater use due to all ground/surface water in the W&S basin being considered hydraulically interconnected. There are no overlap concerns for this water right aside from the split right 81-12030 referenced above.

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

H. RECOMMENDATIONS

1. Recommended Amounts

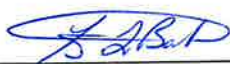
<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.01 CFS	1.4 AF
<u>Totals:</u>		0.01 CFS	1.4 AF

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

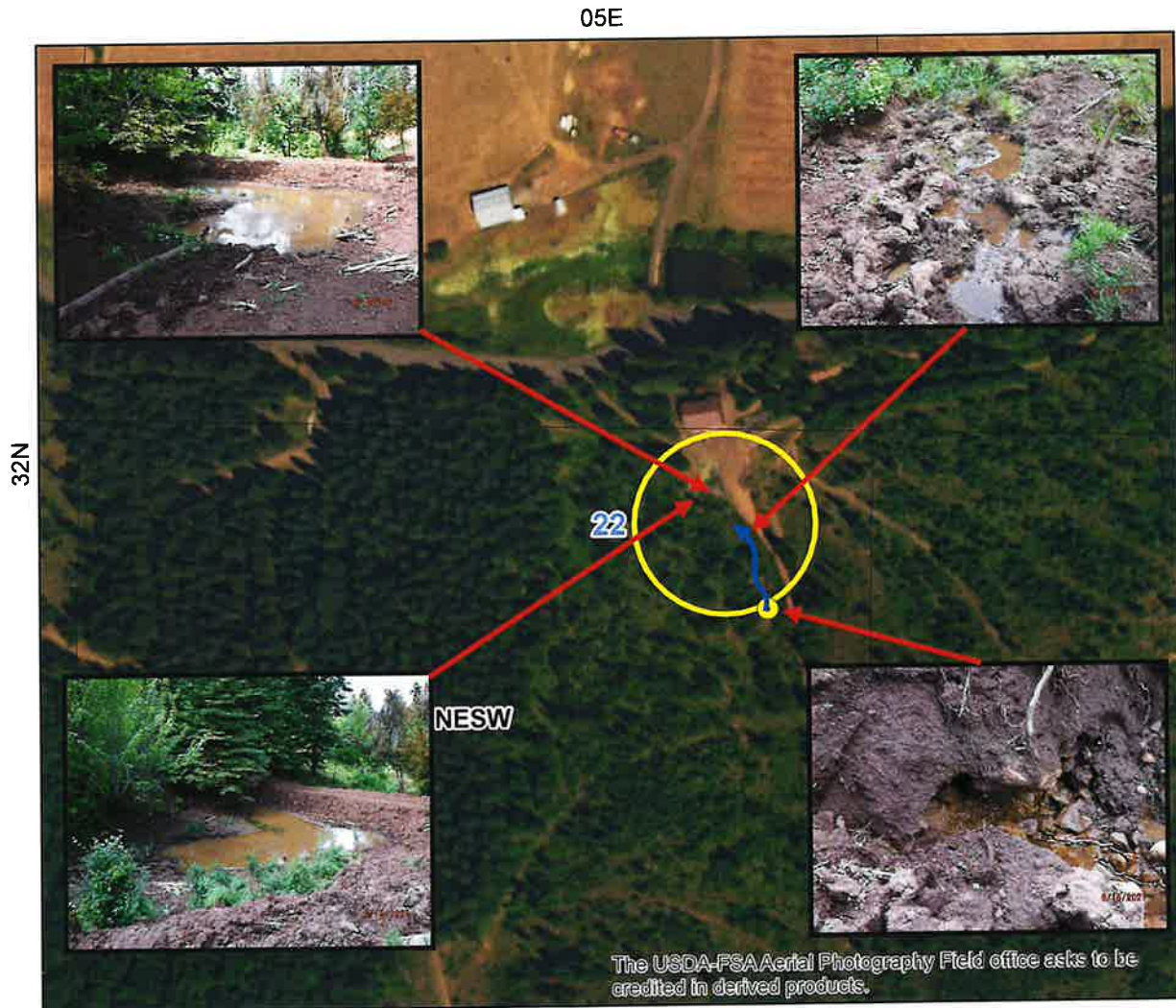
I. AUTHENTICATION

Luke Bates -

Field Examiner's Name  Date 11/1/2021
 Reviewer  Date 11/2/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
81-12009

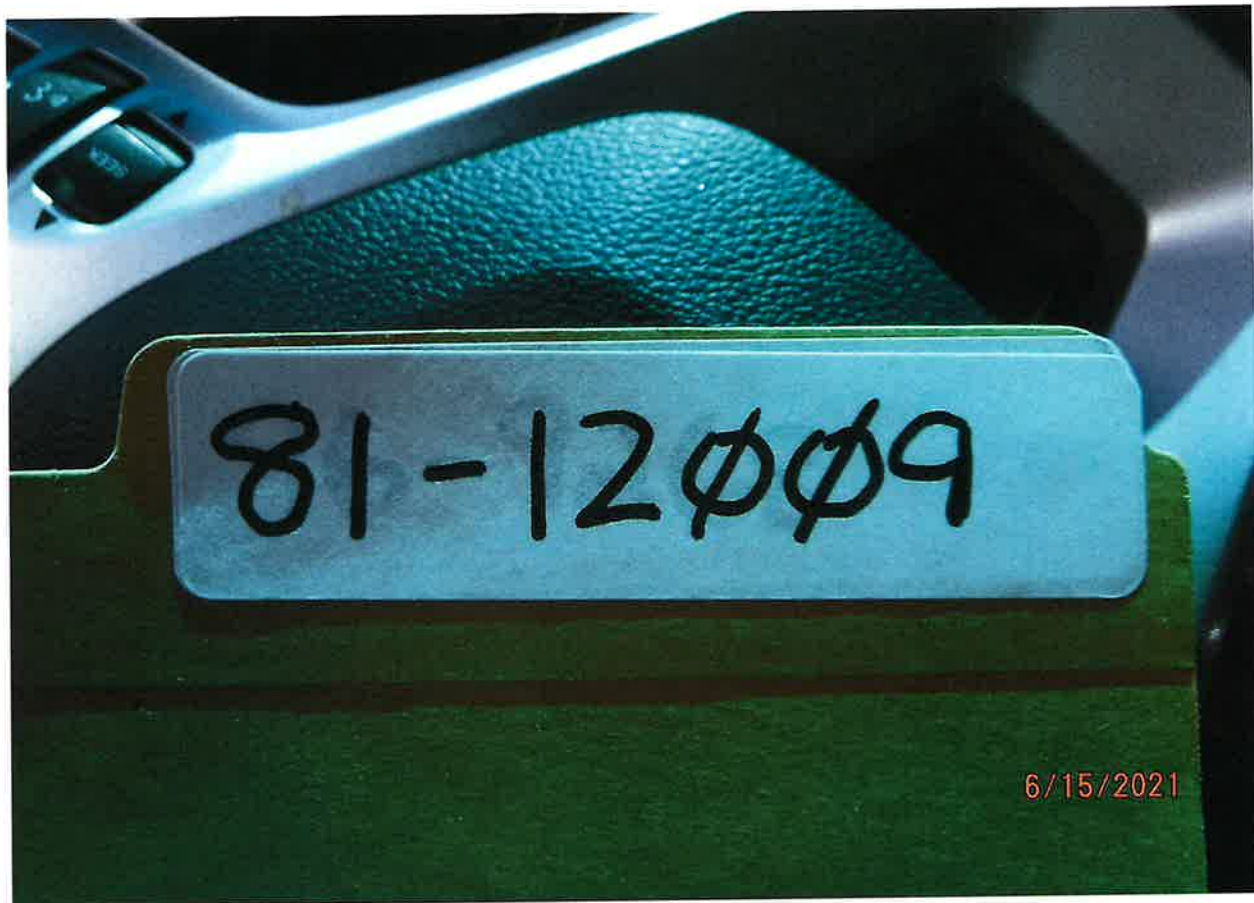
STOCKWATER system diagram.



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

0 0.035 0.07 0.14 Miles





FIELD EXAM DATE 81-12009



POD – SPRING FLOW FROM BANK



POU – STOCKWATER

