

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

**Permit No:** 81-12030  
**Exam Date:** 6/15/2021

1. Current Owner:  
DOUG HICKS 545 RED FIR RD KOOSKIA ID 83539-5135 AND  
MARLOUS 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:**  
UNNAMED STREAM

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

UNNAMED STREAM NE¼ NW¼ NE¼, Sec. 27, Twp 32N, Rge 05E, B.M. IDAHO County

Method of Determination: GPS. POD is an in-stream shallow 24 HR impoundment pond located at -115°48.893, 46°05.470.

**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  |    |        |
| 32N | 05E | 27  |    | X  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

Method of Determination: Field exam and Arcmap aerial imagery.

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.  
X 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  
X 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 |
|---------------------------|------------|----|------------------|-----------|-----------------------------------|
| NONE                      |            |    |                  |           |                                   |

**D. FLOW MEASUREMENTS**

1.

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

2. Measurements: Unable to perform flow measurements; intermittent stream flows directly into a natural low depression that has created a 24 HR shallow impoundment pond prior to flowing down-stream. I am recommending **0.02 cfs**, the department De Minimus Stockwater instream diversion rate for licensing purposes.

**E. FLOW CALCULATIONS**

Measured Method: Field exam observations, department standard for De Minimus Stockwater instream use equaling 0.02 cfs.

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: Stockwater annual volume =

- $(100 \text{ head cattle} + 3 \text{ horses}) \times 12 \text{ gpd} \times 365 \text{ day per year} = 451,140 \text{ gal per year} / 325,850 \text{ gal per afa} = 1.4 \text{ af}$  considering department rounding standards.

**G. NARRATIVE/REMARKS/COMMENTS**

Admin Note: Permit 81-12030 was split from 81-12009 due to the clarified unnamed stream source and stockwater use not co-mingling with the spring source accounted for under 81-12009.

Field exam performed on 6/15/2021 with the applicant, Marlous Hicks, showed an unnamed stream source being used for stockwater purposes. The original permit was applied for and approved designating this water source as a spring. During licensing review Arcmap DRG layer & field exam observations were reviewed and illustrate the source of water is an intermittent unnamed stream tributary to sinks. The spring headwater for this unnamed stream is NE of the applicant's property on a neighbor's property and is associated with WR 81-12010. As a result, I have clarified the water source during licensing review revising it to be the unnamed stream (still tributary to sinks) and removed the 10-acre PLSS quarter-quarter legal description designator.

At the POD, unnamed stream water flows through a shallow depression that has created a 24 HR impoundment basin used by livestock. I was unable to perform flow measurements due to the instream flow of the water system. I am recommending a diversion rate of **0.02 cfs**, the department De Minimus Stockwater instream diversion rate for licensing purposes.

Observation of the small stream during the exam in early summer illustrate the stream flows at approximately 10 gpm which aligns with the recommended 0.02 cfs. Additionally, permit 81-12009's original approved diversion rate of 0.03 cfs has been split between this right and 81-12030 which accounts for the other 0.01 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 24 HR impoundment pond. Field maps were used to trace out the area of stock and during licensing review Arcmap aerial imagery was used to designate the stockwater POU. At time of exam, the applicant's herd was grazing near and drinking from the small pond; photographs were taken showing a few cattle and the herd that ventured down to the water hole during the exam. 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 0.02 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 81-12009 referenced above.

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> | <u>Annual Volume</u> |
|-----------------------|----------------------|--------------------------|----------------------|
| STOCKWATER            | 01/01 to 12/31       | 0.02 CFS                 | 1.4 AF               |
| <u>Totals:</u>        |                      | 0.02 CFS                 | 1.4 AF               |

##### 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

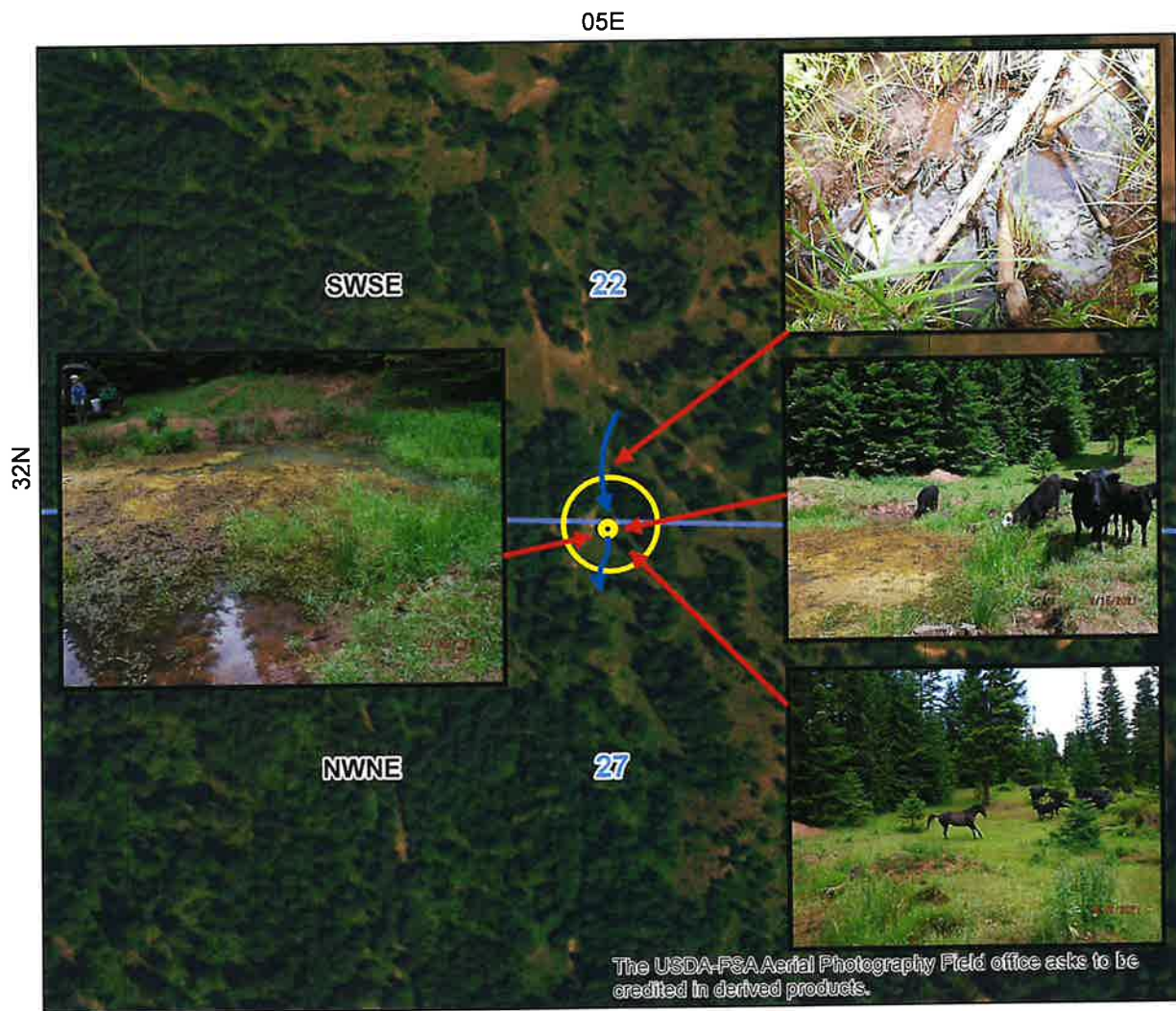
#### I. AUTHENTICATION

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**  
81-12030

STOCKWATER system diagram.



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

0 0.035 0.07 0.14 Miles





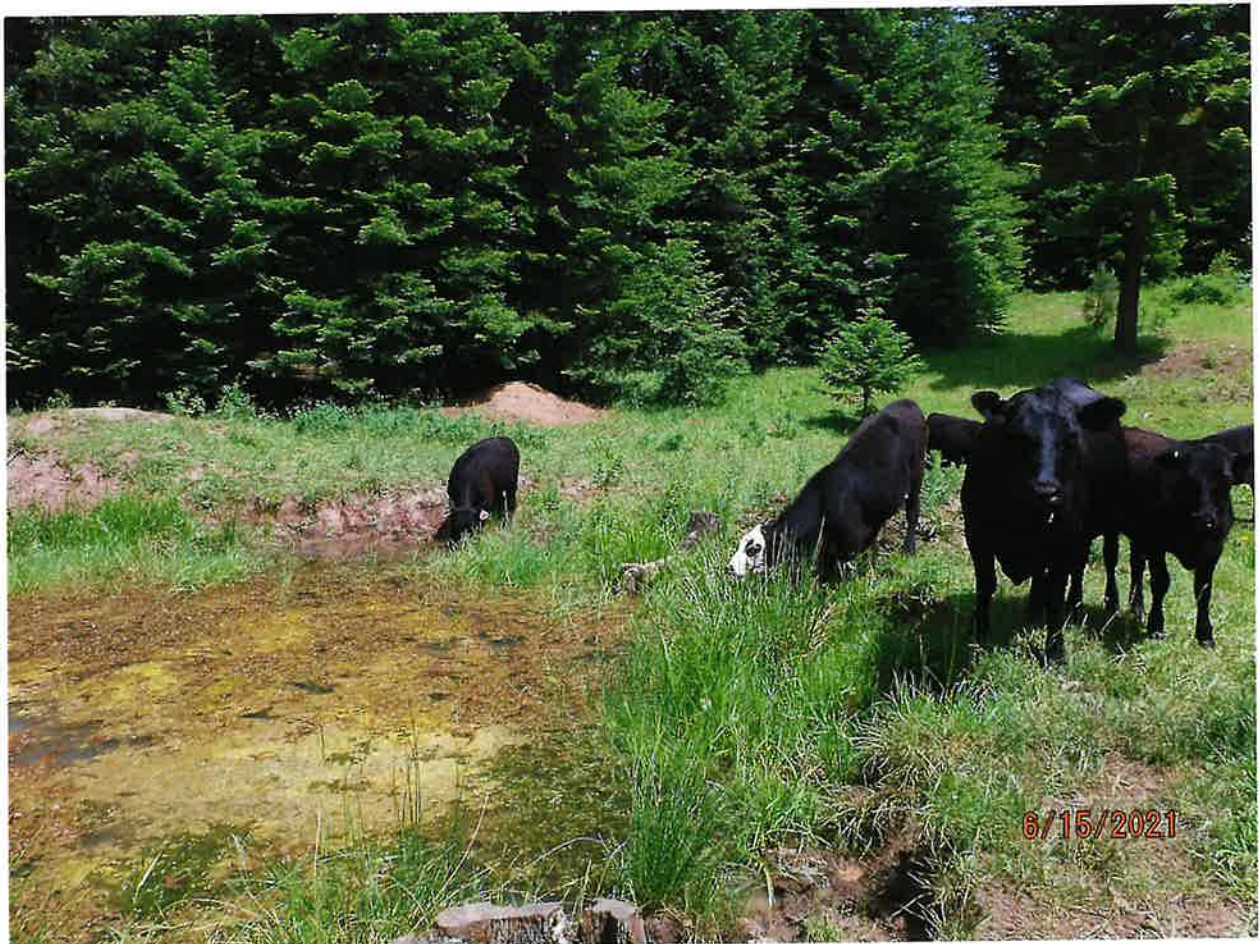
FIELD EXAM DATE 6/15/2021 – WR SPLIT FROM 81-12009 ON 6/28/2021



CLARIFIED DURING LICENSING REVIEW – POD – UNNAMED STREAM SOURCE



POU – STOCKWATER





POU – STOCKWATER

