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

| Α. | GENERAL INFORMATI | ON | | | | Permit No: Exam Date: | 86-12028 07/01/2020 |
|--------------------|---|-----------------|------------|---------------------|---------------|--------------------------|------------------------|
| 1. | Current Owner: LEE AND NANCY DA | VISON TRUST | 37134 SUNN | SIDE BENCH RD | LENORE | ID 83541-600 | |
| 2. | Accompanied by: Un-acc Phone No: 208-520-1 Address: Same as ab Relationship to permi | 462 ove | | ee Davison to condu | uct without a | pplicant on pre | mise. |
| 3. <u>S</u> SPR | DURCE: ING | | | Tributary SINKS | | | |
| Metho | od of Determination: Ar | cmap and DRG. | | | | | |
| в. с | VERLAP REVIEW | | | | | | |
| 1. | Other water rights with th | e same place of | use: | <u>NO</u> Overlap | | | |
| Wat | er Right No. | Source | | Purpose of Use | | Basis | |

Comments:

| 2 | Otherweter | righte with | the eere | naint of divoraion: |
|----|-------------|-------------|------------|---------------------|
| ۷. | Other water | ngnis with | i the same | point-of-diversion: |

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
| | | | |
| | | | |

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

SPRING NE¼ SW¼ NE¼, Sec. 31, Twp 37N, Rge 01W, B.M. NEZ PERCE County

Method of Determination: GPS. POD is located at -116º29.969, 46º30.581.

PLACE OF USE: IRRIGATION

| Tum | Dea | Sec | | N | IE | _ | | N١ | N | | | SI | N | | | S | E | | Totals |
|-----|-----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| Twp | Rng | Sec | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | |
| 37N | 01W | 31 | | | 0.1 | | | | | | | | | | | | | | 0.1 |

Total Acres: 0.1

Method of Determination: Field exam and Arcmap.

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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 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 | Нр | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|------------------------------|---------------|----|------------------|-----------|--------------------------------------|
| SPRING BOX | N/A | | | | |

D. FLOW MEASUREMENTS

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

2. Measurements: Unable to perform flow measurements, as piping from spring box to storage tank was not accessable; flow from storage tank had back pressure preventing accurate measurement. No measurement is required.

E. FLOW CALCULATIONS

Flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii.

F. DIVERSION RATES

The diversion rate for this irrigation right is limited to 0.01 CFS or 4.5 GPM.

G. VOLUME CALCULATIONS

- 1. Volume Calculations for irrigation:
- V_{LR} = (Acres Irrigated) x (Irrigation Requirement) = 0.1 acres x 3.5 afa = 0.4 af

V_{D.R} = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = N/A, no flow measurement applied.

 $V = Smaller of V_{LR}$ and $V_{D.R} = 0.4 af$

2. Volume Calculations for Other Uses:

This right is from a surface3 water source, and does not receive an annual volume.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-office field exam, but a physical field exam was conducted on 7/1/2020 in order to accurately determine spring POD. GPS was used to determine the POD, irrigation was verified at time of exam, and photographs were taken to show POD and irrigation.

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The permit was authorized for 0.06 cfs. At time of exam, I was unable to complete a flow measurement as piping from the spring box to storage tank was not accessible for measurement. Piping from storage tank had back-pressure that would cause an inaccurate flow measurement. It was determined that the flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii, and the license is recommended for **0.1 cfs** or 4.5 gpm.

Applicant diverted water using a spring box to a 650 gallon storage tank, which routed water using a 2 inch PVC pipe to small fenced irrigation area for trees and small plants. The flow from the spring was constant, but very low and applicant used the storage tank to allow accumulate water, providing cycled irrigation of his small field. Overflow from the storage tank returned directly to the natural spring channel.

The place of use was challenging to confirm via aerial photography, but field exam showed a clearly fenced in field the applicant had applied irrigation water to. The area was traced out on a map during exam, and during licensing review Arcmap was used to trace out irrigated area equal to 0.1 acres. The surface water source does not receive an annual volume, but license is limited to 3.5 AF per acre.

Condition 26 was removed from license. All other conditions remain on license. There are no overlap concerns for this water right.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS

1. Recommended Amounts

| Beneficial Use | Period of Use | Rate of Diversion | |
|----------------|----------------|-------------------|--|
| IRRIGATION | 03/15 to 11/15 | 0.01 CFS | |
| | Totals: | 0.01 CFS | |

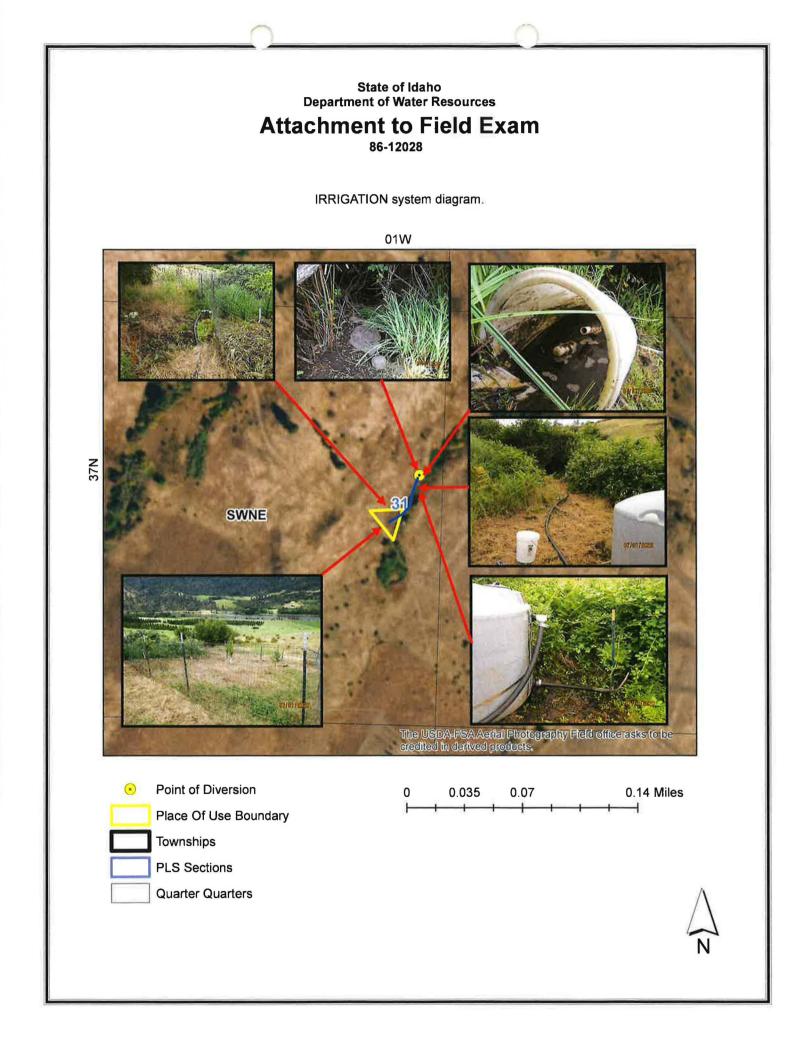
2. Recommended Amendments

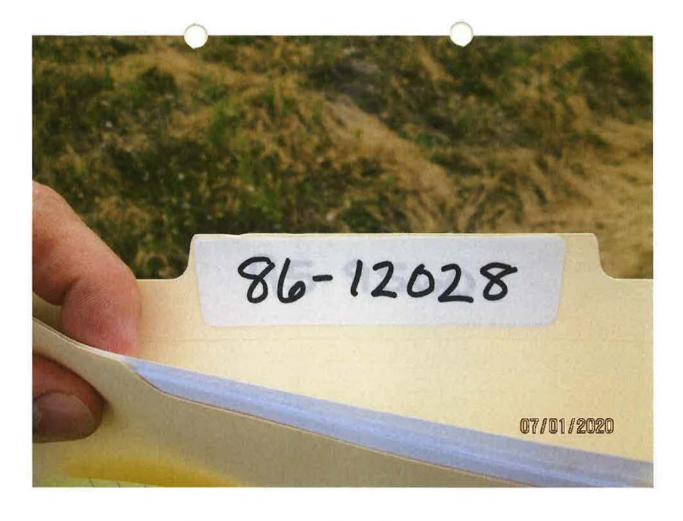
| Change P.D. | as reflected above | Add P | D. as reflecte | ed above | х | None |
|-------------|--------------------|-------|----------------|----------|---|------|
| | | | | | | |

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

J. AUTHENTICATION Luke Bates - Water Resource Agent

| Field Examiner's Name | Date 7/6/2020 |
|-----------------------|---------------|
| Reviewer adm Fmh | Date 7/2/2020 |









POD - SPRING BOX





WATER CONVEYANCE TO STORAGE TANK





STORAGE TANK INFLOW AND OUTFLOW



PVC PIPING TO IRRIGATION POU



IRRIGATION POU

