

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 84-12316

Exam Date:

1. Current Owner:
BRENDA SNIDER PO BOX 133 KAMIAH ID 83536-0133 AND
PAUL SNIDER PO BOX 133 KAMIAH ID 83536-0133
2. Accompanied by: Paul Snider
Phone No: 661-445-2871
Address: Same as above
Relationship to permit Holder: Current owner of parcel with pond; recently took ownership of split portion of Permit 84-12143 following submission of Assignment of Permit by Jack Decker (Permit holder)

3. **SOURCE:**
UNNAMED STREAM

Tributary
TOM TAHA CREEK

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
84-10165	GROUNDWATER	STOCKWATER, DOMESTIC	DECREE

Comments: 84-10165 was decreed during the SRBA and was designated a generic 40-acre tract POU which does overlap this right's pond POU. Review of proof report for 84-10165 specifically associates domestic and stockwater use to parcel RP34N03E360010, which is owned by Paul & Brenda Snider & has the pond POU for this permit.

2. Other water rights with the same point-of-diversion: NO Overlap

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

UNNAMED STREAM NE¼ NE¼, Sec. 36, Twp 34N, Rge 03E, B.M. IDAHO County

Method of Determination: GPS; POD is a pond earthen dam located at -116°01.026 46°15.109

PLACE OF USE: STOCKWATER STORAGE, WILDLIFE STORAGE, RECREATION STORAGE, & FIRE PROTECTION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
34N	03E	36	X																

Method of Determination: Beneficial use field examination 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
POND DAM					

D. FLOW MEASUREMENTS

1.

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

2. Measurements: NONE, in-stream pond with dam & overflow device; no diversion rate applied to water right.

E. FLOW CALCULATIONS

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: See attached pond analysis worksheet.
- Stockwater Storage annual volume = 15 head cattle x 12 GPD x 365 DPY = 65,700 gal per year / 328,850 gal per AF = 0.2 af considering department rounding standards. This value has been split between parent right 84-12143 & children right 84-12316 with each being recommended for 0.1 af respectively.

G. NARRATIVE/REMARKS/COMMENTS

Department staff completed an initial field examination on 7/23/2015 for Permit 84-12143 but did not capture sufficient data about the applicant's system required to accurately recommend for licensing. A follow-up site visit was conducted on 6/8/2022 with the current Permit holder, Jack Decker, and 2ea ponds which were approved for development were observed to ground truth size, location, source, and tributary.

Due to property ownership changes the northern pond associated with the Permit is now owned by a different party than the current Permit Holder. Permit 84-12316 has been split from parent right 84-12143 during licensing review, and accounts for the northern pond and associated beneficial uses. The water source for the northern pond was permit approved as a spring source; following the field examination and review of Arcmap DRG layer I have determined the storage pond is filled by an intermittent stream with its spring headwater located further up the small drainage. I have clarified the water source to reflect Unnamed Stream tributary to Tom Haha Creek during licensing review.

During the exam on 6/6/2022 with Mr. Snyder, an earthen dam POD excavated to impound unnamed stream flow for multiple beneficial uses was observed. At the POD, the pond dam incorporates a rock overflow passage on the SW corner of the pond which allows overflow to continue downstream & into the southern pond located in the small drainage. The pond development is considered in-stream storage and there is no diversion rate applied to this water right for licensing purposes. The diversion to storage component was removed from the Permit during licensing review.

The approved Permit 84-12143 authorized development of Domestic, Domestic Storage, Domestic from Storage, Stockwater, Stockwater from Storage, & Fire Protection from Storage beneficial uses in addition to several other uses. At time of initial exam and follow up exam domestic beneficial uses were not active in use. The northern pond was never developed for domestic use, and I am not recommending any domestic use(s) for licensing. Stock animals uses both ponds during the development period, but stockwater from storage was not developed rather cattle drank directly from the pond(s) bank; I have removed the stockwater from storage use & stockwater direct flow use from Permit 84-12143 and it was not included as part of this split right based on this information. The storage pond does not have a pipeline from storage dedicated serving as a dedicated fire protection line and I have removed the fire protection from storage component. Fire protection when fighting an active fire is an exempt use for Idaho water law, and the pond water may be used for dipping or drafting in the event of an active fire without the from storage component.

The storage pond POU was traced out on field maps, and during licensing review Arcmap aerial imagery was used to accurately designate the pond's surface area which equals 0.6 acres. The pond has a maximum depth of 8 feet, average depth of 3.2 ft, pond capacity of 1.9 af, seepage & evaporation loss rate of 1.6 af, and total volume required equal to 3.6 af annually. The pond is used by the applicant for stockwater purposes, with range cattle drinking directly from the pond throughout the season. The stockwater storage component annual volume equals **0.1 af** for 15 head of cattle (volume equates to 1/2 of total stockwater volume – reference above). The Wildlife storage, Recreation storage, & Fire Protection storage component(s) annual volume equals 1.9 af pond capacity + 1.6 af seepage/evaporation = **3.5 af** annually; this value is not additive between the three beneficial uses toward licensing. The maximum diversion volume recommended for licensing equals 0.1 af (stockwater storage) + 3.5 af (multi-storage uses) = **3.6 af**.

The unnamed stream source is tributary to Tom Taha Creek and subsequently into the Clearwater River, both of which have a minimum stream flow WR(s) 84-12223 & 85-7583 and 86-7345 respectively. I am not recommending MSF conditions be added during licensing review as they were not present on the permit. Conditions 26A, X01, 071, 070 and X02 were removed from the permit during licensing review. Condition 077 was replaced with 218 to accurately describe fire protection storage limitations of use. Condition(s) 219 & 220 were added to describe pond size and volume factors. A text condition was added to describe Recreation storage uses associated with the pond. Condition 004 was added during licensing review. All other conditions on the Permit shall be carried forward to licensing.

Overlap concerns: 84-10165 was decreed during the SRBA and was designated a generic 40-acre tract POU which does overlap this right's pond POU. Review of proof report for 84-10165 specifically associates domestic and stockwater use to parcel RP34N03E360010, which is owned by Paul & Brenda Snider & has the pond POU for this permit. While there is overlap potential between the two rights for stockwater use, the groundwater source under 84-10165 provides allowances for 20 head of cattle (proof report data) but doesn't provide an annual volume on the decree. This WR 84-12316 being split to 0.1 af is a surface source storage use and separate from the groundwater well use for stockwater purposes. I am not recommending inclusion of condition X35 for licensing purposes, as there is not a clearly defined solution for overlapping the two rights. There are no additional concerns for overlap.

When both the parent WR and split right associate with two storage ponds volume is combined, the result cannot exceed originally permitted volume of 8.0 af for each storage beneficial use and has been split based on pond size and volume metrics. The combined totals are as follows:

PARENT RIGHT 84-12143 & SPLIT RIGHT RECOMMENDED DIVERSION RATE/VOLUME DATA			
Permit ~~95-15020~~ approved value(s)		WR 84-12143 License Recommended Value	WR 84-12316 License Recommended Value
Diversion to Storage	0.10 cfs	diversion to storage beneficial use not developed, instream ponds only; removed from permit during licensing review -	
Domestic	0.10 cfs	domestic direct flow beneficial use not developed; removed from permit during licensing review - L.Bates	
Domestic Storage	8.0 af	domestic storage beneficial use not developed; removed from permit during licensing review - L.Bates	
Domestic from Storage	8.0 af	domestic from storage beneficial use not developed; removed from permit during licensing review - L.Bates	
Stockwater	0.02 cfs	Stockwater direct flow beneficial use not developed; stock drink directly from pond(s); removed from permit during licensing review - L.Bates	
Stockwater Storage	8.0 af	0.1 af	0.1 af
Stockwater from Storage	8.0 af	stockwater from storage beneficial use not developed; removed from permit during licensing review - L.Bates	
Fire Protection Storage	8.0 af	4.3 af	3.5 af
Fire Protection from Storage	8.0 af	Fire Protection from Storage beneficial use not developed; removed from permit during licensing review - L.Bates	
Recreation Storage	8.0 af	4.3 af	3.5 af
Wildlife Storage	8.0 af	4.3 af	3.5 af
MAXIMUM DIVERSION RATE / VOLUME		4.4 af	3.6 af
			8.0 AF

When combined both storage ponds match the 8.0 af storage volume from Permit 84-12143, and there is no concern for enlargement following splitting of water rights.

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

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Annual Volume
STOCKWATER STORAGE	01/01 to 12/31	0.1 AF
WILDLIFE STORAGE	01/01 to 12/31	3.5 AF
RECREATION STORAGE	01/01 to 12/31	3.5 AF
FIRE PROTECTION STORAGE	01/01 to 12/31	3.5 AF

Totals: 3.6 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

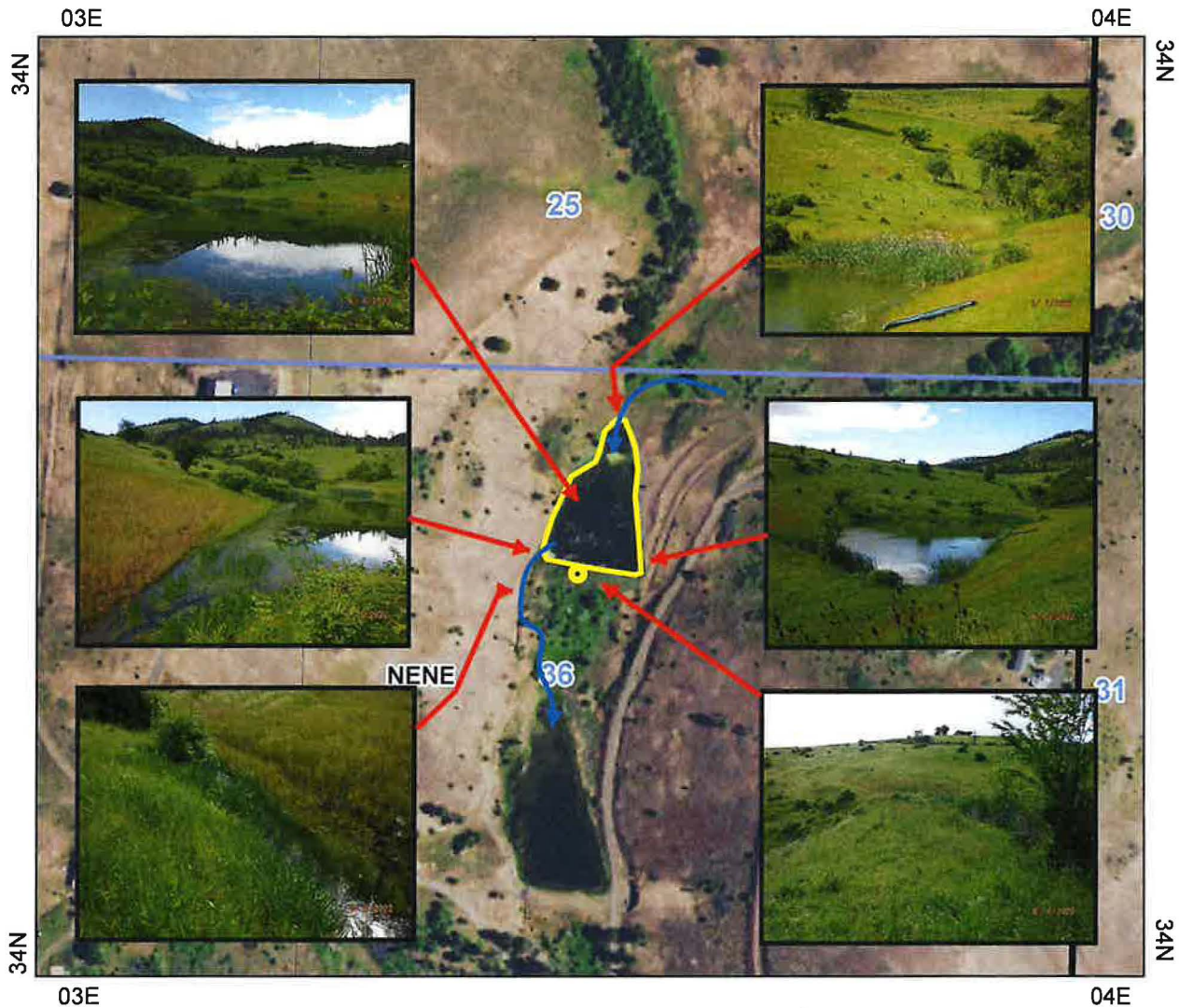
Luke Bates -

Field Examiner's Name *L. Bates* Date *9/1/2022*

Reviewer *Chris Belf* Date _____

State of Idaho
Department of Water Resources
Attachment to Field Exam
84-12316

STOCKWATER STORAGE, WILDLIFE STORAGE, RECREATION STORAGE,
& FIRE PROTECTION STORAGE system diagram.



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

0 0.035 0.07 0.14 Miles



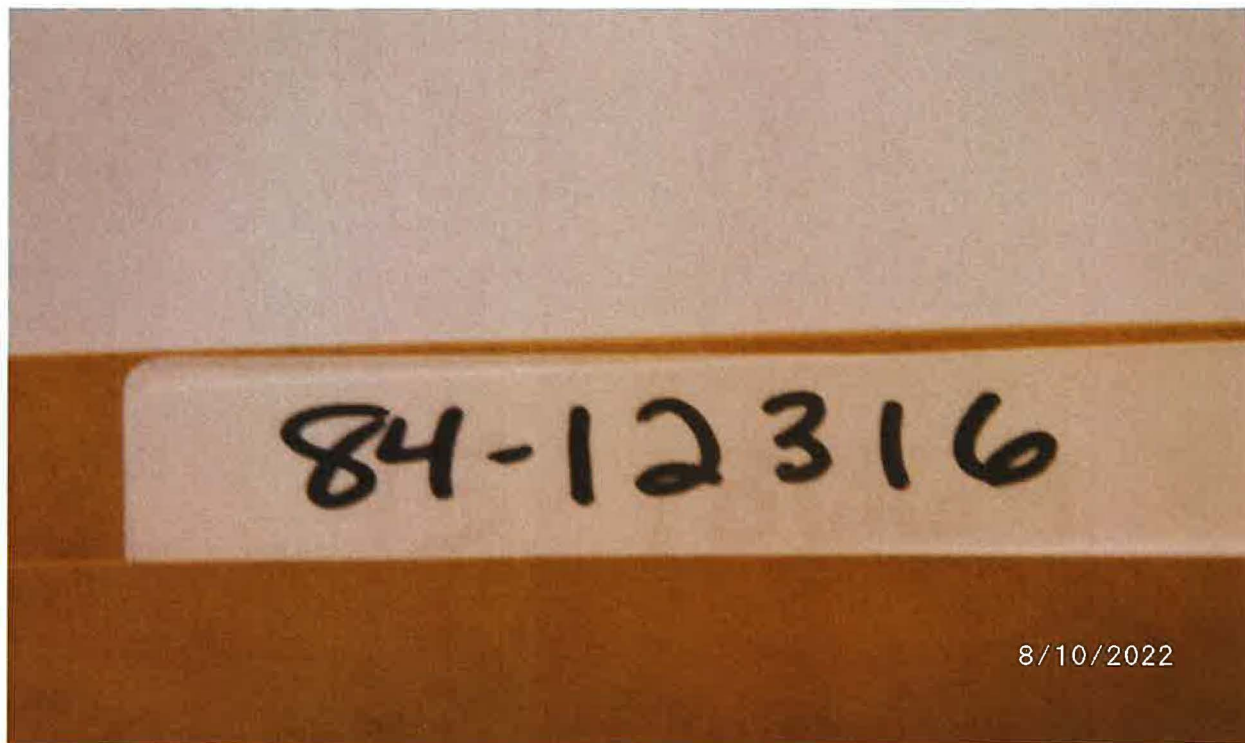
Total Storage Calculations

FILE NUMBER	84-12316
REVIEWER	LUKE BATES
DATE	8/10/2022

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.6	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	3.2	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	1.9	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0.1	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.8	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.8	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	3.6	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.



INITIAL BENEFICIAL USE FIELD EXAMINATION DATE 7/23/2015; FOLLOW UP FIELD EXAM DATE 6/6/2022

WATER RIGHT SPLIT FROM PARENT RIGHT 84-12143



POD – EARTHEN POND DAM



ROCKED OVERFLOW CHANNEL INSTALLED SOUTHWEST CORNER OF POND



OVERFLOW CHANNEL ALLOWS WATER TO CONTINUE DOWNSTREAM TO LOWER POND



STOCKWATER STORAGE, WILDLIFE STORAGE, RECREATION STORAGE, & FIRE PROTECTION STORAGE POU





STORAGE POND POU – MULTIPLE BENEFICIAL USES



UNNAMED STREAM INFLOW TO POND – SOURCE CLARIFIED FROM SPRING TO UNNAMED STREAM