State of Idaho
Department of Water Resources

Water Right License

Water Right No. 67-7979

Priority: December 14, 1994

Maximum Diversion Volume: 9.8 AF

It is hereby certified that:

SAGEROCK RANCH LLC C/O TOM STEPHENSON
1205 PRINGLE RD WEISER ID 83672

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated December 14, 1994, and has submitted Proof of Beneficial Use on January 21, 1998. An examination confirms water is diverted from:

Source : UNNAMED STREAM **Tributary:** SCOTT CREEK

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION STORAGE	1/01 to 12/31		9.8 AF
IRRIGATION FROM STORAGE	3/15 to 11/15		9.8 AF
STOCKWATER STORAGE	1/01 to 12/31		1.4 AF

Location of Point(s) of Diversion

UNNAMED STREAM SW¼ NE¼, Sec. 11, Twp 11N, Rge 06W, B.M. WASHINGTON County
UNNAMED STREAM SW¼ SE¼, Sec. 2, Twp 11N, Rge 06W, B.M. WASHINGTON County
UNNAMED STREAM SE¼ NW¼, Sec. 11, Twp 11N, Rge 06W, B.M. WASHINGTON County

Place of Use: IRRIGATION 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	
11N	06W	2															X		
11N	06W	11			X					X									

Place of Use: IRRIGATION FROM 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	
11N	06W	2												10.0					10.0
11N	06W	11					24.0			23.0	8.0								55.0

Total Acres: 65.0

Place of Use: STOCKWATER 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	
11N	06W	2															X		
11N	06W	11			X					X									

Conditions of Approval

1. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.

SCANNED
AUG 2 8 2023

State of Idaho
Department of Water Resources

Water Right License

Water Right No. 67-7979

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 16th day of August, 2023.

SCOTT STORMS
Water Rights Supervisor

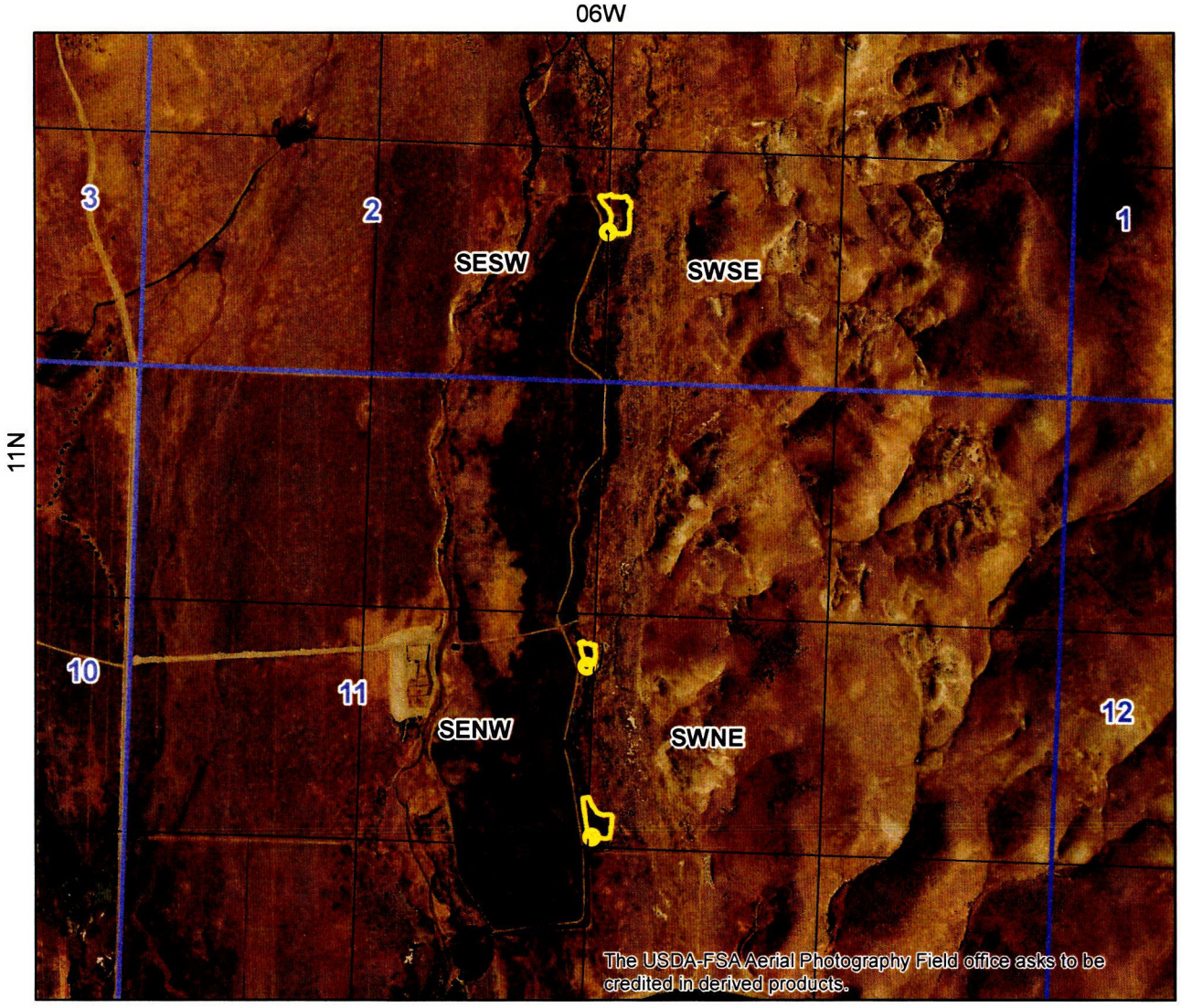
SCANNED
AUG 28 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

67-7979

This map depicts the IRRIGATION STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.125 0.25 0.5 Miles

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

N

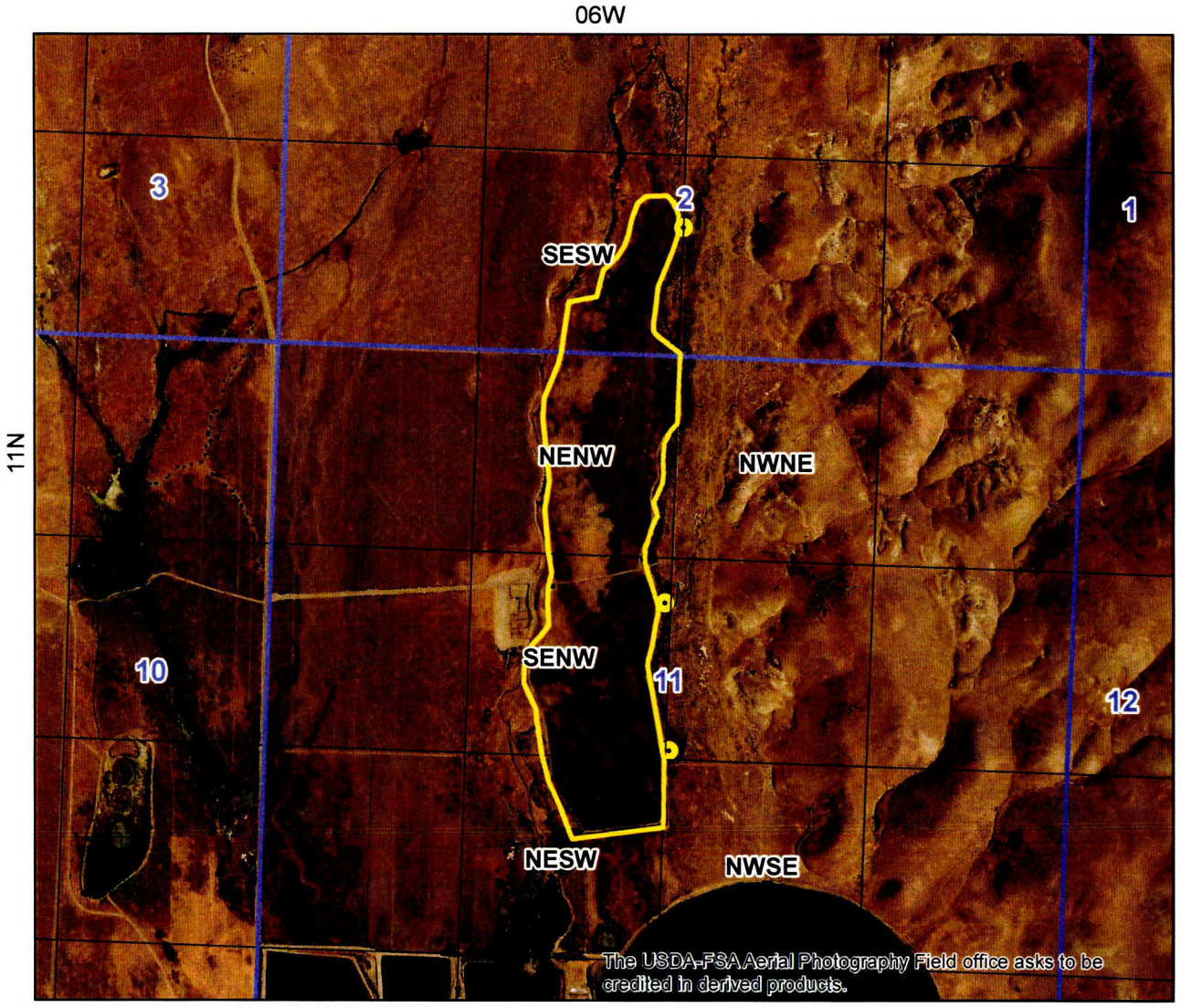
SCANNED
AUG 2 8 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

67-7979

This map depicts the IRRIGATION FROM STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.125 0.25 0.5 Miles

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

N

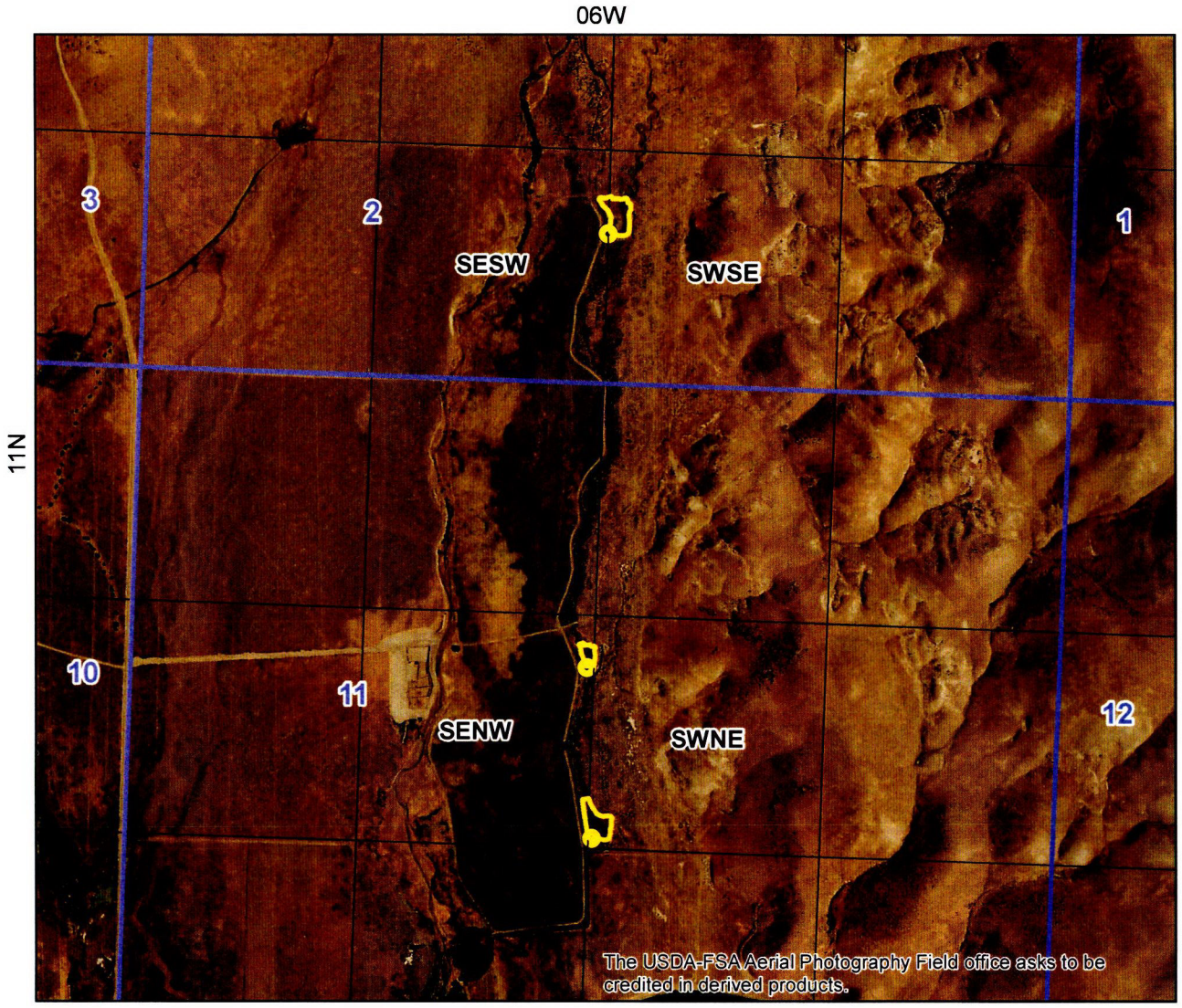
SCANNED
AUG 2 8 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

67-7979

This map depicts the STOCKWATER STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.125 0.25 0.5 Miles

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

N

SCANNED
AUG 2 8 2023

IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little **Director Gary Spackman**

August 18, 2023

SAGEROCK RANCH LLC
C/O TOM STEPHENSON
1205 PRINGLE RD
WEISER ID 83672-5149

RE: License No. 67-7979

ISSUANCE OF LICENSE

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 605-4624.

Sincerely,

LynnE

Lynne Evans
for Scott Storms
Water Rights Supervisor

Enclosure(s)

SCANNED
AUG 28 2023

CERTIFICATE OF SERVICE

I hereby certify that on August 18, 2023, I served a true and correct copy of Water Right License No. 67-7979 by U.S. Mail, postage prepaid, to the following:

SAGEROCK RANCH LLC (Current Owner)
C/O TOM STEPHENSON
1205 PRINGLE RD
WEISER ID 83672-5149

Lynne Evans
Administrative Assistant I

SCANNED
AUG 2 8 2023

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

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AUG 2 8 2023

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

> Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:
>
> (a) The petition for reconsideration is disposed of; or
> (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

SCANNED
AUG 2 8 2023

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-7979
Exam Date: 05/15/2017

1. Current Owner:
   SAGEROCK RANCH LLC C/O TOM STEPHENSON
   1205 PRINGLE RD WEISER ID 83672

2. Accompanied by: Jeff Widener
   Phone No:
   Address:
   Relationship to permit Holder: Ranch Manager

3. **SOURCE:** UNNAMED STREAM **Tributary** SCOTT CREEK

Method of Determination: Permit application, IDWR records, USGS topography maps, and field examination

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
67-4165	Scott Creek	Irrigation/Stockwater	Decreed
67-10670	Ground Water	Stockwater	Decreed
67-7933	Ground Water	Irrigation	Permit/Relinquished

Comments: 67-4165 over laps irrigation; 67-7933 was examined at same time & is being relinquished.

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

Water Right No.	Source	Purpose of Use	Basis
67-10670	Ground Water	Stockwater	Decreed
67-7933	Ground Water	Irrigation	Permit/Relinquished
67-4165	Scott Creek	Irrigation/Stockwater	Decreed

Comments: 67-7933 was examined at same time & is being relinquished.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
UNNAMED STREAM SW¼ SE¼, Sec. 2, Twp 11N, Rge 06W, B.M. WASHINGTON County
UNNAMED STREAM SE¼ NW¼, Sec. 11, Twp 11N, Rge 06W, B.M. WASHINGTON County
UNNAMED STREAM SW¼ NE¼, Sec. 11, Twp 11N, Rge 06W, B.M. WASHINGTON County

Method of Determination: Field examination and ArcMap tools with aerial imagery.

PLACE OF USE: IRRIGATION FROM 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	
11N	06W	2												10					10.0
11N	06W	11					24.0			23.0	8.0								55.0

Total Acres: 65.0

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AUG 2 8 2023

Method of Determination: Field examination and ArcMap tools with 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
____ 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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: None

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) = (65 acres x 4.5 afa) =293 afa

$V_{D.R}$ = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 =

V = Smaller of $V_{I.R}$ and $V_{D.R}$ =

2. Volume Calculations for Other Uses: (See Attached Spreadsheets)

Irrigation Storage and Irrigation from Storage
Developed

Pond #	Surface Area (acres)	Maximum Depth (ft)	Total Volume (afa)	Capacity Volume (afa)	Seepage Volume (afa)	Evaporation Volume (afa)
Pond 1	0.6	10	5.1	2.9	0.7	1.5
Pond 2	0.2	8	1.3	0.6	0.2	0.5
Pond 3	0.5	8	3.4	1.6	0.5	1.3
Total	**1.3**		**9.8**	5.1	1.4	3.3

Total Surface Area of all 3 ponds = **1.3 acres**
Seepage + Evaporation = 1.4 + 3.3 = **4.7 afa**
Capacity of all 3 ponds = **5.1 afa**
Volume required to keep 3 ponds full = Capacity + Seepage + Evaporation = 5.1 + 1.4 + 3.3 = **9.8 afa**

Stock water Storage Volume:
Application processing memo #3 annual use of water for stock water purposes.
For 51 to 100 head of range cattle the annual volume is 1.4 afa

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AUG 2 8 2023

G. NARRATIVE/REMARKS/COMMENTS

Proof of beneficial use was submitted on January 21, 1998, for permit 57-7979. A field exam was conducted by WRA Aaron Skinner while accompanied by WRA Cody Parker and ranch manager, Jeff Widener on May 15, 2017. The field exam write-up was completed by water resource agent, sr., Allen Bradbury. Current Washington County tax lot data shows that the permit holder, Sage Rock Ranch, owns the land pertinent to the Place of Use (POU) and Point of Diversion (POD).

The original application and permit propose three on-stream storage ponds constructed for irrigation storage and stock water storage. The larger upstream storage pond would cover 2 acres with a maximum depth of 8 feet and serve as the primary storage facility. Two minor impoundments would be constructed downstream each measuring 50' X 50' X 3' depth or approximately 0.17 acres. The facilities would be used as additional stock water storage which may be filled via controlled releases from the uppermost reservoir. It further stated that the stored flows are intended to supplement irrigation from Scott Creek under water right 67-04165.

At the time of the field exam, three on-stream storage ponds were found in operation on an ephemeral unnamed stream. Though water was not flowing in the channel, all the ponds still retained some storage water. The unnamed stream channel flows directly into the north end of each pond and is held by a dirt embankment on the downstream end. When a pond reaches full capacity the water overflows in a spillway at the upstream end of the pond back into the stream channel. The uppermost pond was the largest measuring 0.6 acres with a reported maximum depth of 10 feet. The second pond measured 0.2 acres with a reported maximum depth of 8 feet. The third pond measured 0.5 acres with a reported maximum depth of 8 feet. The ponds were in use during the development period and afterward as supported by historical aerial imagery.

The place of use for irrigation was verified during the field exam. The shape file was modified to reflect the irrigation. There are 65-acres of irrigation. The ranch manager described using portable pumps to pump water from the ponds to supplement flood irrigation when water was available (pers. comm. Aaron Skinner). This system is used sporadically to obtain green up of range and pasture grasses in early spring for pasturing cattle. Cattle were grazing nearby during the field exam. All three ponds are accessible to cattle for watering.

The permit located six POD's one in each adjacent quarter-quarter since the QQ boundary line runs parallel with the unnamed stream. One point of diversions was located for each pond and the extraneous diversion points were removed from the license.

The permit authorized 20 afa combined storage for the 3 ponds. It is unclear how this calculation was made; however it is the volume applied for on the original application for permit. The combined capacity for the ponds is 5.1afa afa plus seepage and evaporation of 4.7 afa. The total volume of storage in the system is 9.8 afa. Based on the Departments Pond Loss Calculation spreadsheet I am recommending a total storage volume of 9.8 afa for irrigation storage and irrigation from storage uses for all three ponds.

The permitted stock water storage of 1.4 afa is for 90 range cattle based on Application processing memo #3 annual use of water for stock water purposes. I am recommending the permitted rate of 1.4 afa for stock water storage.

Overlap

67-4165 a decreed right for irrigation of 65 acres with 1.3 cfs of water from Scott Creek which overlaps POU for this right.
67-7933 a permit for irrigation of 275 acres with 5.5 cfs from ground water that was not developed.
67-2338 POD a decreed right for irrigation of 176 acres with 2.0 cfs of water from Scotts Creek overlaps in 11N06W2

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AUG 2 8 2023

NESW.

67-4165 POD overlaps in 11N06W2SESW.

67-10670 POD a decreed right for stock water for 0.03 cfs from ground water overlaps in 11N06W11NWNE.

Conditions

This right was initially conditioned with condition 18A - The right holder shall install/maintain permanent measuring devices in such a manner that the amount of water entering the reservoir and the amount of water released from the reservoir can be measured. This condition was made inactive on 6/7/2001 and was replaced with condition 18C - Prior to diversion of water under this right, the right holder shall provide a means acceptable to the department to measure the amount of water entering the reservoir and the amount of water released from the reservoir. Used on rights statewide for on-stream storage uses within water district boundaries, per Rule 50.04 of the Water Appropriation Rules. During the field exam a measuring device was not found on the unnamed stream at the upper end of the pond system or the lower end. Water right 67-7979 is outside the boundary of Water District 67. Since 18A is inactive and 18C is for on-stream storage within a water district, this condition was removed.

03A is inactive replaced with R65 as per Department Standards.

005 is inactive removed since place of use is not in a water district.

26A removed as per Department Standards.

030 removed as per Department Standards.

Condition concerning extra diversion points removed.

Condition concerning number of livestock removed.

~~Condition X35 for combined use limit was added~~ AA

Have conditions of permit approval been met? X Yes ____ No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
STOCKWATER STORAGE	1/01 to 12/31		1.4 AF
IRRIGATION STORAGE	1/01 to 12/31		9.8 AF
IRRIGATION FROM STORAGE	3/15 to 11/15		9.8 AF
	Totals:		9.8 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

Allen Bradbury -

Field Examiner's Name Allen Bradbury Date 8/15/23

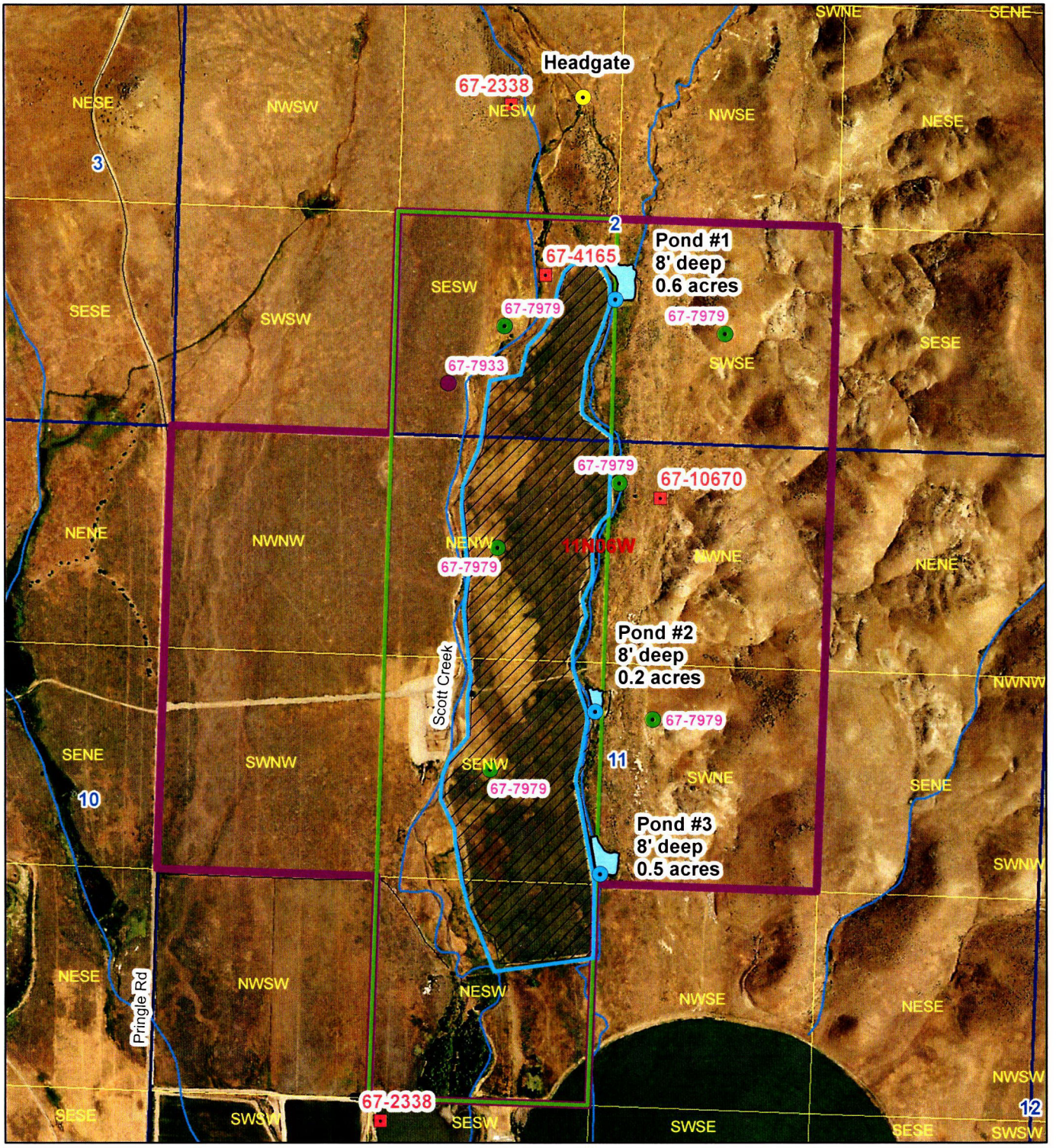
Reviewer AA Date 8/16/2023

SCANNED

AUG 2 8 2023

SAGE ROCK RANCH

Water Right 67-7979 with 67-7933 Overlap



Actual POD GPS Location

- Headgate
- Pond 1
- Pond 2
- Pond 3

- 67-7979 Permit PODs
- 67-7933 Permit POD
- Irrigation Storage
- 67-7979_Irrigation
- 67-4165 POU
- 67-7979 Permit POU
- 67-7933 Permit POU

0 0.2 0.4 Miles

SCANNED
AUG 2 8 2023

Storage Volume with Pond Loss Calculations

WR #:	67-7979 Pond 1			
Max. Depth:	12 feet	**Avg. Depth:**	4.8	feet
Soil Type:	Lanktree			SC-SM, CL, SC

Volume Calculation					
Seepage					
Area (acres)	**Rate (ft/day)**	**Start Date**	**End Date**	**Days**	**Volume (AF)**
0.6	0.003	1-Jan	31-Dec	365	0.7
			Total Estimated Seepage Losses		**0.7** AFA

Evaporation						
Station:	Weiser (NWS -- USC00109638)					
Month	**mm/day[1]**	**Start Date**	**End Date**	**Days**	**mm/Month**	**Volume (AF)**
Jan	-0.87	1-Jan	31-Jan	31	*0.00*	0.00
Feb	-0.11	1-Feb	29-Feb	28	*0.00*	0.00
Mar	1.24	1-Mar	31-Mar	31	*38.44*	0.08
Apr	2.75	1-Apr	30-Apr	30	*82.50*	0.16
May	3.55	1-May	31-May	31	*110.05*	0.22
Jun	4.19	1-Jun	30-Jun	30	*125.70*	0.25
Jul	4.95	1-Jul	31-Jul	31	*153.45*	0.30
Aug	4.08	1-Aug	31-Aug	31	*126.48*	0.25
Sep	2.92	1-Sep	30-Sep	30	*87.60*	0.17
Oct	1.55	1-Oct	31-Oct	31	*48.05*	0.09
Nov	-0.46	1-Nov	30-Nov	30	*0.00*	0.00
Dec	-1.13	1-Dec	31-Dec	31	*0.00*	0.00
				365		
			Total Estimated Evaporation Losses (mm/year) =		772.27	**1.5** AFA

[(mm/yr) ÷ (convert to feet)] X (Surface area of pond, in acres) = Evaporation Loss in Acre Feet

(***772.27*** ÷ ***304.8***) **X** **0.60** = **1.5 AFA**

Evaporation loss is calculated by dividing the Evaporation Rate (mm/day) by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet.

Seepage plus evaporation losses:	**2.2**	**AFA**

Storage Volume		
Area (Acres)	**Average Depth (ft)**	**Volume (AF)**
0.6	4.8	**2.9**
	Total Volume	**5.1**

Soil Type: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

Evaporation: http://data.kimberly.uidaho.edu/ETIdaho/

MEMO 76 Seepage Loss Standards for Ponds and Reservoirs

0.2 SM (silty sand, sand silt mixtures) = 0.2 ft per day

0.007 SC (clayey sands, sand clay mixtures) = 0.007 ft per day

0.02 ML (inorganic silts - very fine sands, silty, or clayey fine sands) = 0.02 ft per day

0.003 CL (low to medium plasticity clays)= 0.003 ft per day

0.0003 CH (high plasticity clays)= 0.0003 ft per day.

SCANNED

AUG 2 8 2023

Storage Volume with Pond Loss Calculations

WR #: 67-7979 Pond 2

Max. Depth: 8 feet **Avg. Depth:** 3.2 feet

Soil Type: Lanktree SC-SM, CL, SC

Volume Calculation					
Seepage					
Area (acres)	**Rate (ft/day)**	**Start Date**	**End Date**	**Days**	**Volume (AF)**
0.2	0.003	1-Jan	31-Dec	365	0.2
			Total Estimated Seepage Losses		**0.2** AFA

Evaporation						
Station:	Weiser (NWS -- USC00109638)					
Month	**mm/day[1]**	**Start Date**	**End Date**	**Days**	**mm/Month**	**Volume (AF)**
Jan	-0.87	1-Jan	31-Jan	31	*0.00*	0.00
Feb	-0.11	1-Feb	29-Feb	28	*0.00*	0.00
Mar	1.24	1-Mar	31-Mar	31	*38.44*	0.03
Apr	2.75	1-Apr	30-Apr	30	*82.50*	0.05
May	3.55	1-May	31-May	31	*110.05*	0.07
Jun	4.19	1-Jun	30-Jun	30	*125.70*	0.08
Jul	4.95	1-Jul	31-Jul	31	*153.45*	0.10
Aug	4.08	1-Aug	31-Aug	31	*126.48*	0.08
Sep	2.92	1-Sep	30-Sep	30	*87.60*	0.06
Oct	1.55	1-Oct	31-Oct	31	*48.05*	0.03
Nov	-0.46	1-Nov	30-Nov	30	*0.00*	0.00
Dec	-1.13	1-Dec	31-Dec	31	*0.00*	0.00
				365		
			Total Estimated Evaporation Losses (mm/year) =		772.27	**0.5** AFA

[(mm/yr) ÷ (convert to feet)] X (Surface area of pond, in acres) = Evaporation Loss in Acre Feet

(*772.27* ÷ *304.8*) **X** 0.20 = **0.5 AFA**

Evaporation loss is calculated by dividing the Evaporation Rate (mm/day) by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet.

Seepage plus evaporation losses:	**0.7** AFA

Storage Volume		
Area (Acres)	**Average Depth (ft)**	**Volume (AF)**
0.2	3.2	**0.6**
	Total Volume	**1.4**

Soil Type: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

Evaporation: http://data.kimberly.uidaho.edu/ETIdaho/

MEMO 76 Seepage Loss Standards for Ponds and Reservoirs

0.2 SM (silty sand, sand silt mixtures) = 0.2 ft per day

0.007 SC (clayey sands, sand clay mixtures) = 0.007 ft per day

0.02 ML (inorganic silts - very fine sands, silty, or clayey fine sands) = 0.02 ft per day

0.003 CL (low to medium plasticity clays)= 0.003 ft per day

0.0003 CH (high plasticity clays)= 0.0003 ft per day.

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Storage Volume with Pond Loss Calculations

WR #: 67-7979 Pond #3

Max. Depth: 8 feet **Avg. Depth:** 3.2 feet

Soil Type: Lanktree SC-SM, CL, SC

Volume Calculation					
Seepage					
Area (acres)	**Rate (ft/day)**	**Start Date**	**End Date**	**Days**	**Volume (AF)**
0.5	0.003	1-Jan	31-Dec	365	0.5
			Total Estimated Seepage Losses		**0.5** AFA

Evaporation						
Station:	Weiser (NWS -- USC00109638)					
Month	**mm/day[1]**	**Start Date**	**End Date**	**Days**	**mm/Month**	**Volume (AF)**
Jan	-0.87	1-Jan	31-Jan	31	*0.00*	0.00
Feb	-0.11	1-Feb	29-Feb	28	*0.00*	0.00
Mar	1.24	1-Mar	31-Mar	31	*38.44*	0.06
Apr	2.75	1-Apr	30-Apr	30	*82.50*	0.14
May	3.55	1-May	31-May	31	*110.05*	0.18
Jun	4.19	1-Jun	30-Jun	30	*125.70*	0.21
Jul	4.95	1-Jul	31-Jul	31	*153.45*	0.25
Aug	4.08	1-Aug	31-Aug	31	*126.48*	0.21
Sep	2.92	1-Sep	30-Sep	30	*87.60*	0.14
Oct	1.55	1-Oct	31-Oct	31	*48.05*	0.08
Nov	-0.46	1-Nov	30-Nov	30	*0.00*	0.00
Dec	-1.13	1-Dec	31-Dec	31	*0.00*	0.00
				365		
			Total Estimated Evaporation Losses (mm/year) =		772.27	**1.3** AFA

[(mm/yr) ÷ (convert to feet)] X (Surface area of pond, in acres) = Evaporation Loss in Acre Feet

(*772.27* ÷ *304.8*) X 0.50 = 1.3 AFA

Evaporation loss is calculated by dividing the Evaporation Rate (mm/day) by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet.

Seepage plus evaporation losses:	**1.8** AFA

Storage Volume		
Area (Acres)	**Average Depth (ft)**	**Volume (AF)**
0.5	3.2	**1.6**
	Total Volume	**3.4**

Soil Type: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

Evaporation: http://data.kimberly.uidaho.edu/ETIdaho/

MEMO 76 Seepage Loss Standards for Ponds and Reservoirs

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0.0003 CH (high plasticity clays)= 0.0003 ft per day.

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Figure 1. Pond #1 the most upstream pond.



Figure 2. Pond #2.

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Figure 3. Road crossing culvert upstream of pond #2.



Figure 4. Erosion at upper end of pond #2.

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Figure 5. Damaged control structure on pond #2.



Figure 6. Cattle grazing near the upper end of pond #1.

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State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region • 2735 Airport Way • Boise, Idaho 83705-5082
Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 6, 2017

COPY

SAGE ROCK RANCH
1205 PRINGLE ROAD
WEISER, IDAHO 83672

RE: Scheduling Field Exam for Water Right Permit No. 67-7979

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **during the weeks of May 8th – May 26, 2017**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **a diversion of 20.0 acre feet for irrigation storage, irrigation from storage, and stockwater storage use from an unnamed stream, a tributary of Scott Creek. If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit or if you did develop that use, but subsequently abandoned it, a license cannot be issued. Please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required). The permit will be voided if beneficial use under the permit was not developed or was developed, but is now abandoned and you do not relinquish the permit.

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable $25 processing fee.

Please contact me within the next thirty (30) days to either schedule an examination, submit a relinquishment, or submit an assignment. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Please call me at (208) 334-2190 if you have any questions. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Aaron Skinner
Water Resource Agent

Enclosures: Water Permit Report and Map
Relinquishment of Permit form
Assignment of Permit form

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