

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13676
Exam Date: 12/04/2017

1. Current Owner:
DORIS HALL 2089 6TH ST NORCO CA 91760 AND/OR
DAVID HALL 2089 6TH ST NORCO CA 91760

2. Accompanied by: NA (In-Office Field Exam)
Phone No: NA
Address: NA
Relationship to permit Holder: NA

3. **SOURCE:**
UNNAMED STREAM
GROUND WATER

Tributary
BROWNLEE CREEK

Method of Determination: Permit application, photos from 1999 field investigation, aerial imagery, and digital PLSS map.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NA	NA	NA	NA

Comments: This pond POU is the only water right in the QQ and there are no other water right POUs that overlap.

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

Water Right No.	Source	Purpose of Use	Basis
NA	NA	NA	NA

Comments: This pond is the only water right in the QQ and there are no other water right PODs that overlap.

C. DIVERSION AND DELIVERY SYSTEM

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

UNNAMED STREAM NW¼ SE¼, Sec. 28, Twp 08N, Rge 02E, B.M. BOISE County
GROUND WATER NW¼ SE¼, Sec. 28, Twp 08N, Rge 02E, B.M. BOISE County

Method of Determination: Permit application, photos from 1999 field investigation, aerial imagery, and digital PLSS map.

PLACE OF USE: STOCKWATER STORAGE and RECREATION 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	
08N	02E	28														X			

Method of Determination: Permit application, photos from 1999 field investigation, aerial imagery, and digital PLSS map.
This is the only pond established in the QQ.

Hall 65-13676

Stockwater & Recreation Pond
Imagery Date: 6/25/2015



100 ft

Google Earth

© 2013 Google

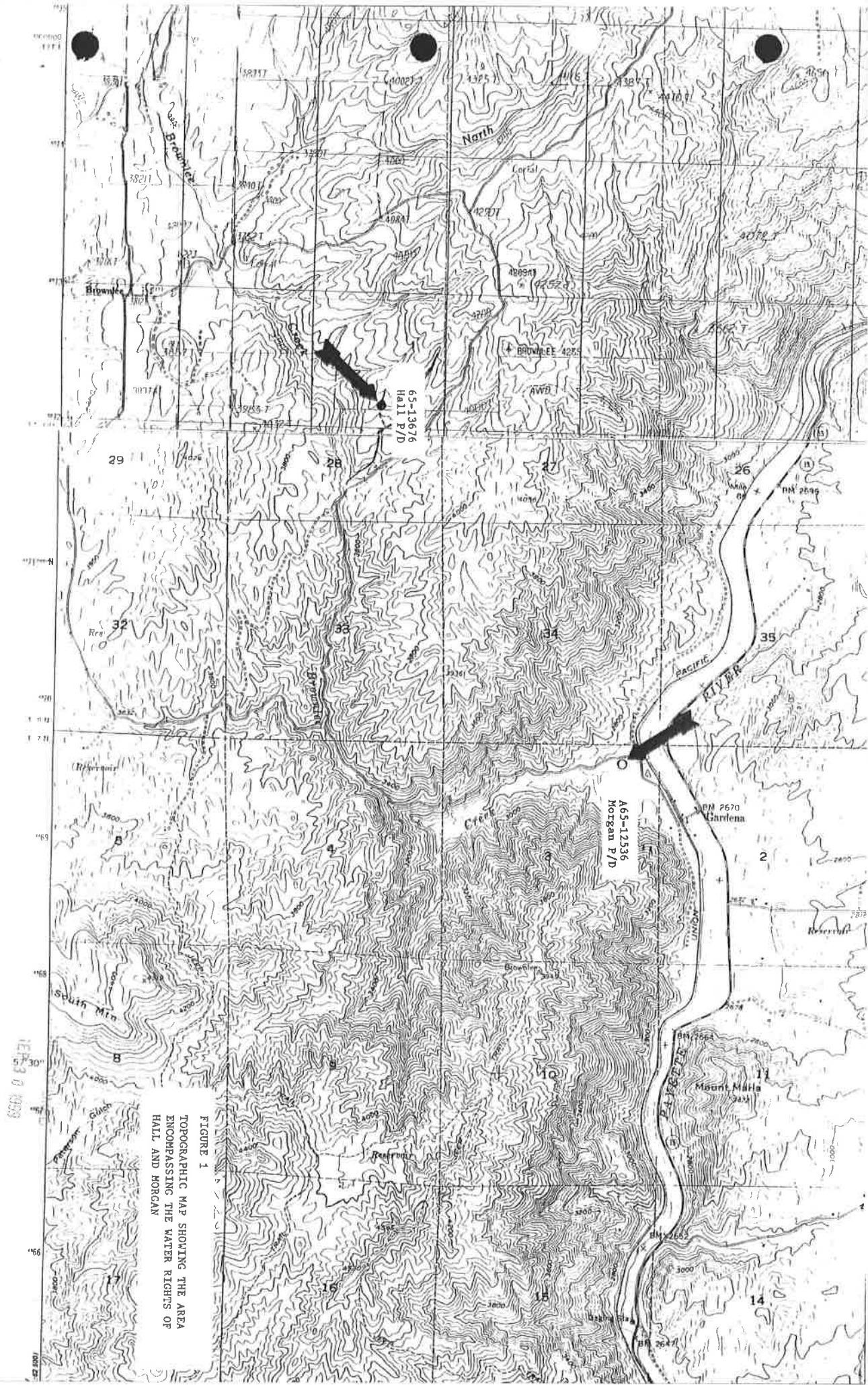
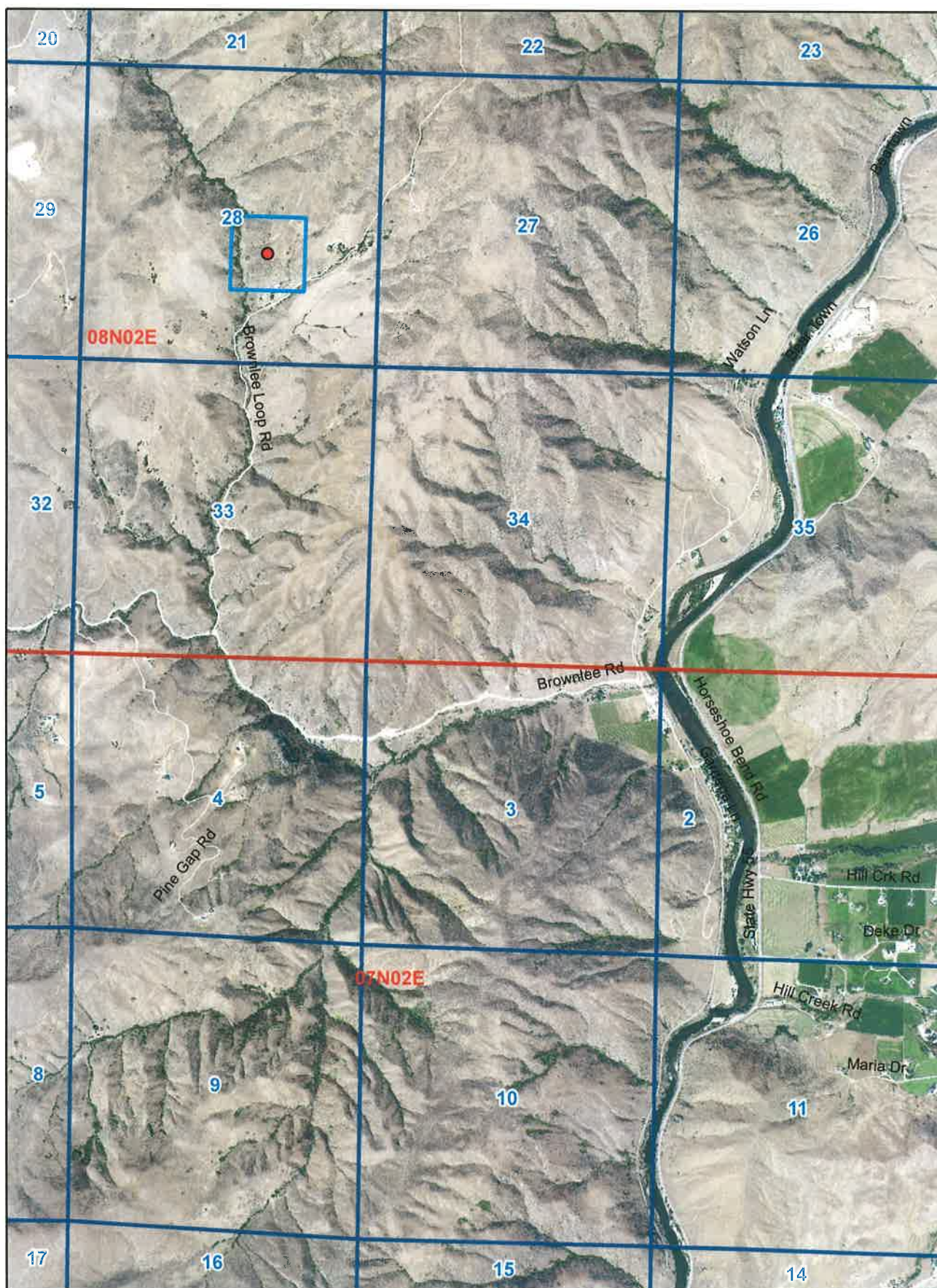
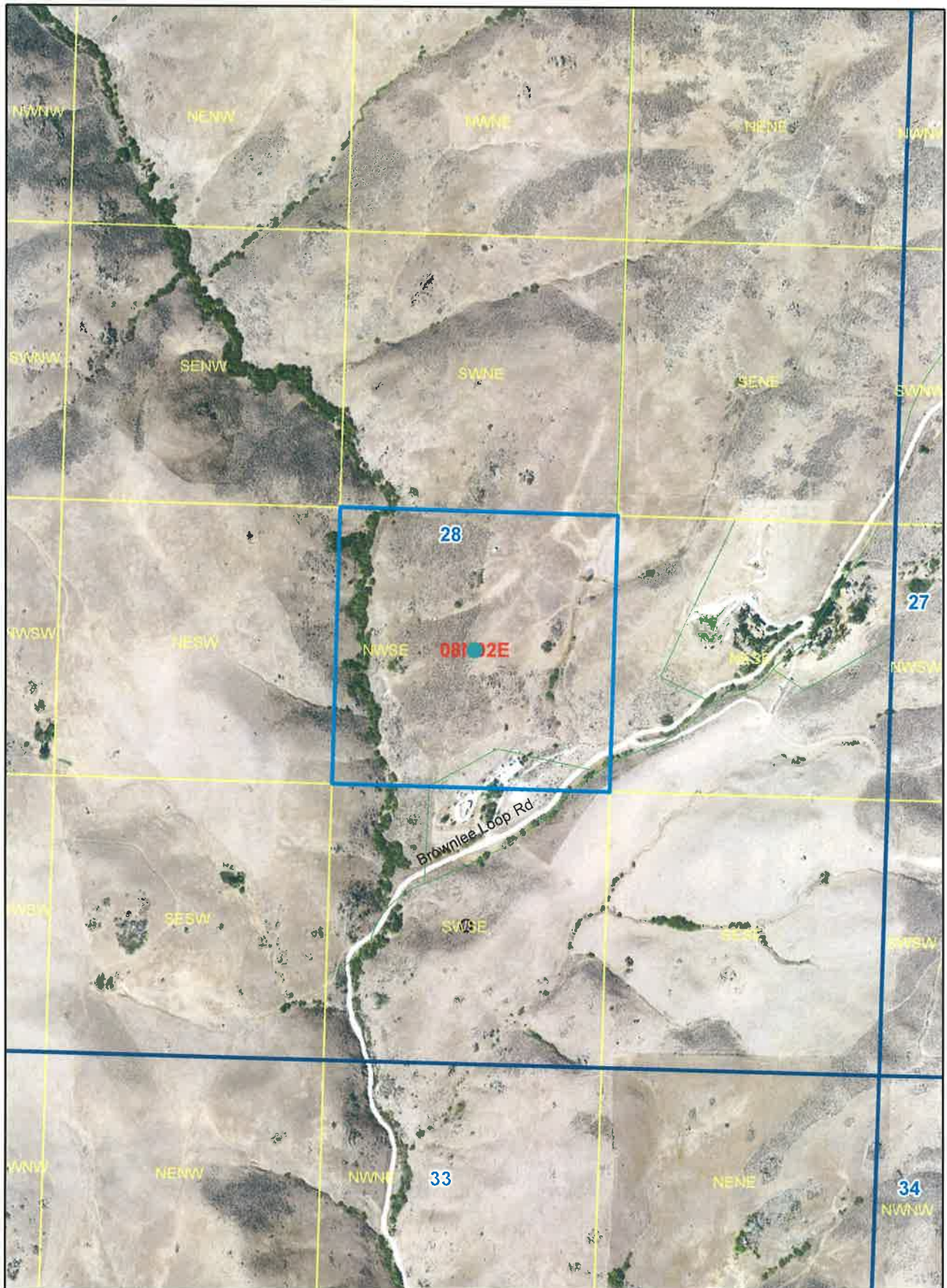


FIGURE 1
TOPOGRAPHIC MAP SHOWING THE AREA
ENCOMPASSING THE WATER RIGHTS OF
HALL AND MORGAN

65-13676



65-13676



Total Storage Calculations

FILE NUMBER	65-23676
REVIEWER	Shilynn Novak
DATE	9/10/2019

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.)	0.08	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4	"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)	0.3	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	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)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.1	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.4	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.

Flow Rate into Pond (CFS)	0.00	The "Flow Rate into Pond" depicts the actual flow, either measured or estimated, into the pond. For offstream facilities, this will be equivalent to "diversion to storage" rate.
Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day)	4.29	This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".
Required Daily Maintenance Volume (AF/Day)	0.00	"Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year to maintain pond volume. It is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.
Minimum Maintenance Flow (CFS)	0.00	The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determined by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.
Days Required to Fill the Pond	-284	The "Days Required to Fill the Pond" is calculated by dividing the "Pond Capacity" by the "Flow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.
Days Required to Fill the Pond at 13,000 Gallons per Day	8	Some water users may want to fill a pond under the 13,000 gallons per day domestic exemption. The "Days Required to Fill the Pond at 13,000 Gallons per Day" is calculated by converting the "Pond Capacity" and the "Required Daily Maintenance Volume" to gallons. The "Pond Capacity" is then divided by 13,000 gallons minus the "Required Daily Maintenance Volume" in gallons to determine the number of days to fill pond. If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond. Negative values indicate that the supply of 13,000 gallons per day is not enough volume to overcome the required daily maintenance volume; the pond will never fill.

Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBER	65-23676
REVIEWER	Shilynn Novak
DATE	9/10/2019

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:

P = Precipitation
ET= Evapotranspiration
P _d = Precipitation deficit
P _d =ET-P

USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at <X:/Spatial/Climate/ETIdahostations.shp>.

Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any negative precipitation deficit values.

Found at: <http://data.kimberly.uidaho.edu/ETIdaho/>

Precipitation Deficit: Open water-shallow systems (ponds/streams)

Station: Oia (NWS -- USC00106586)

Month	mm/day ¹	Days per month	mm/Month
Jan	-2.04	31	0.00
Feb	-1.40	28	0.00
March	-0.61	31	0.00
April	0.79	30	23.70
May	1.54	31	47.74
June	2.93	30	87.90
July	4.29	31	132.99
August	3.78	31	117.18
September	2.18	30	65.40
October	0.31	31	9.61
November	-1.82	30	0.00
December	-2.79	31	0.00

PLEASE NOTE: The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

Total mm/year = 484.52

$[(\text{mm/yr}) \div (\text{convert to feet})] \times (\text{Surface area of pond, in acres}) = \text{Evaporation Loss in Acre Feet}$

$$(484.52 \div 304.8) \times 0.08 = 0.1 \text{ AFA}$$

Seepage Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

FILE NUMBER	65-23676
REVIEWER	Shilynn Novak
DATE	9/10/2019

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	0.08	AC.
-------------------------	------	-----

Pond Surface Area (SQ. FT.)	3485	SQ. FT.
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I used the following method to obtain my Soil Classification information:	NRCS Web Soil Survey	
My Soil Classification is	GrndWtr	
Suggested Seepage Rate (FT./DAY)	0.0000	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss
--

Convert to GPD	0	GPD
----------------	---	-----

Total Seepage Loss (AFA)	0.0	AFA
--------------------------	-----	-----

Though sand and gravel seepage rates may actually be higher, the maximum allowable rate is 0.2 ft/day, pursuant to Administrative Memo "Seepage Loss Standards for Ponds and Reservoirs."

Suggested Seepage Rates for Different Soil Types:
GW, GP, GM, GC, SW, SP and SM (silty sand, sand silt mixtures and gravel mixtures) = 0.2 ft per day
OL and ML (inorganic silts - very fine sands, silty, or clayey fine sands) = 0.02 ft per day
SC (clayey sands, sand clay mixtures) = 0.007 ft per day
CL (Low to medium plasticity clays) = 0.003 ft per day
MH, OH, PT and CH (high plasticity clays) = 0.0003 ft per day
LINED PONDS (liners can be chemical, fabric, or bentonite) = 0 ft per day
Ponds Intercepting Groundwater (excavated ponds filled by ground water) = 0 ft per day

PLEASE NOTE: The initial basis for the Suggested Seepage Rates in the table above is found on Page 16 of Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at the NRCS Web Soil Survey (Tab #1), an ArcMap Soil Classification Map (Tab #1.1), or published NRCS Soil Survey (Tab #1.2). Use "0" if the pond fill relies on the water table.

BasinSeque Owner

Source

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SFSW	NWSE	SWSE
------	------	------	------	------	------	------	------	------	------	------	------	------

BasinSeque Owner

Source

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NFSW	SWSW	SFSW	NFSF	NWSF	SWSF	SFSF
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------



#1

HALL STOCKWATER POND LOOKING SOUTHWEST
5-11-99
SLC



#2

INLET TO STOCKWATER POND
5-11-99
SLC



#3

UNNAMED STREAM ADJACENT TO POND
5-11-99
SLC



#4

UNNAMED STREAM APPROXIMATELY 200' BELOW POND
5-11-99
SLC

MICROFILMED

SEP 30 1999



#5

UNNAMED STREAM APPROXIMATELY
75' ABOVE MOUTH
5-11-99
SLC



#6

BROWNLEE CREEK 200 YARDS ABOVE MOUTH
5-11-99
SLC



#7

BROWNLEE CREEK AT ROAD CROSSING
75' BELOW MOUTH OF UNNAMED STREAM
5-11-99
SLC

MICROFILMED
MICROFILMED
SEP 30 1999
SEP 30 1999

IDAHO DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 Airport Way
Boise, Idaho 83705-5082

RETURN SERVICE REQUESTED

65-13676
LETTER DATED
1-8-2018

CHRISTOPHER REHKOP
1159 SE 46TH ST
WASHINGTON DC 20019

PRESORTED
FIRST CLASS



U.S. POSTAGE >>> PITNEY BOWES



ZIP 83702 \$ 000.37³
02 1W
0001393358 JAN 09 2018

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TO:

RECEIVED

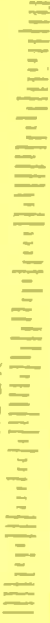
JAN 12 2018

WATER RESOURCES
WESTERN REGION

CALL AREA 1300A1710001/09/18
RETURN TO SENDER
REHKOP, CHRISTOPHER HEA
2740 WARING LN
MALABAR FL 32950-3709

RETURN TO SENDER

1300A1710001/09/18





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

January 8, 2018

COPY

CHRISTOPHER REHKOP
1159 SE 46TH ST
WASHINGTON DC 20019

RE: Additional Information Request for Permit 65-13676

Dear Permit Holder or Property Owner,

On July 5, 1996, you filed an Application for Permit for a stockwater and recreation storage use in Boise County. In 2002, a proof of beneficial use was filed stating that the use had been fully developed. I am contacting you today in an effort to complete the licensing process and issue a water right license related to the use described by the permit.

Aerial photography of the property shows evidence the pond was constructed and beneficial use associated with the storage use is confirmed. The permit was issued with a Stockwater and Recreation rate totaling 0.20 cfs. This suggests that water is diverted from the pond to troughs or other uses. A confirmation of the entire use that was developed under the permit is required to make a recommendation for license. This can include any evidence, statement or photos you might have of the diversions. Additionally, conditions of the permit state that a lockable control shall be maintained on the system. Evidence of such a device should be included with your statement.

Please submit the requested information to complete the licensing process. Without a timely written reply within the next thirty (30) days, a license will be issued recognizing only the storage component. Please contact me at 208-334-2190 with any questions you might have. Thank you for your attention to these matters.

Respectfully,

Patrick Kelly
Water Resource Agent, Sr.

Enclosure(s): 65-13676 Proof Report

**DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 Airport Way
Boise, Idaho 83705-5082**

RETURN SERVICE REQUESTED

RECEIVED

JAN 22 2018

WATER RESOURCES
WESTERN REGION

DORIS AND DAVID HALL
2089 6TH ST
NORCO CA 91760

3334 1955-56

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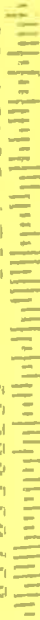


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NIXIE 911 DE 1 0001/18/18

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

80: 83705508235
*3014-00404-09-41





State of Idaho

DEPARTMENT OF WATER RESOURCES

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Enclosure(s): 65-13676 Proof Report



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082

PHONE: (208) 334-2190 FAX: (208) 334-2348 www.idwr.idaho.gov

C.L. "BUTCH" OTTER, Governor

August 18, 2014

GARY SPACKMAN, Director

David & Doris Hall
2089 6th Street
Norco, CA 91760

RE: Scheduling Field Exam for Water Right Permit No. 65-13676

Dear Permit Holder:

The Idaho Department of Water Resources (IDWR) is planning to conduct water right field examinations in the vicinity of the above-referenced permit **during the week of September 8**. An examination is needed to verify water use(s) developed under the permit in order to issue a water right license.

Your permit authorizes the diversion of surface water from an Unnamed Stream and ground water for stock water and recreation storage. If you developed a beneficial use of water and still own the place of use property identified in the permit, please contact me at your earliest convenience to schedule an examination.

If you developed a beneficial use of water under the permit but no longer own the place of use property, please use the enclosed Assignment of Permit form (\$25 fee). This will allow IDWR to work with the new permit owner through the water right licensure process.

A water right license cannot be issued if beneficial use of water was not developed or if use was developed but abandoned. If either of these cases has occurred, please relinquish the permit by using the enclosed Relinquishment of Permit form (no fee required). The permit will be voided if a relinquishment form is not submitted within thirty (30) days. If you no longer own the property and do not assign or relinquish your permit, IDWR will work with the current property owner to issue a license or to void the permit.

Please contact me to schedule a field examination for a day and time that is convenient for you. **Please call me at (208) 334-2190 by August 29 to conduct the field exam during the week of September 8.** If there is a problem with scheduling or conducting the field examination at this time, please let me know so we can reschedule.

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

Sincerely,

Rick Collingwood, P.E.
Staff Engineer

Enclosure: Relinquishment and Assignment of Permit Forms