

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31982
Exam Date: 8/30/2012

1. Current Owner: BULLOCK KING INVESTMENTS LLC
504 BOYHILL DR
NAMPA ID 83686
(208)466-1010
2. Accompanied by: Jeff Agenbroad, Mike Siegersma, and Bill Johnson.
Phone No: (208)859-0100, (208)573-4710, and unknown.
Address: Unknown, 8332 Star Pass Ridge Nampa ID 83686, and unknown.
Relationship to Permit Holder: POD well owner, HOA president, and subdivision homeowner.

3. **SOURCE**
GROUND WATER

TRIBUTARY
N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-2724B and 63-32844 (Irrigation use).
2. Other water rights with the same point of diversion: 63-2724B, 63-7610C, 63-7610D, 63-32381, 63-32382, 63-32383, 63-32384, and 63-33833 (Irrigation use).

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

GROUND WATER
CANYON County

NW1/4NE1/4

Sec. 27, Twp 02N, Rge 02W, B.M.

Method of Determination: GPS Location N 43° 29.2962' W 116° 33.69366' Garmin model GPSmap 76 Datum NAD 83

2. PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
02N	02W	22	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
																	X	X	

Method of Determination: Esri (2012) Aerial Photography w/ field verification.

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
No Metal Tag (#1)	unknown submersible	10	unknown	unknown	unknown - 2" discharge
Booster Motor/Pump (#2)	unknown	30	unknown	unknown	unknown - 8" discharge

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS1. **Measurement**

Equipment	Type	Make/Model No.	Serial No.	Size	Calib. Date
No physical measurement @ exam	N/A	N/A	N/A	N/A	N/A

Fire protection well. System not operating @ exam. See Flow Calculations Section below for Theoretical HP Equation and Pump Test flow estimations.

2. Measurements: None taken at exam, fire protection well – did not require owner to turn on well pump during exam.

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

Measured Method: Theoretical HP Equation:

HP = 10 (well submersible motor only, did not include booster motor because well diverts to storage tank from which booster motor pumps water)

PSI = 60 (pump & closed pipeline est.)

Z = 175 ft (pump set at 185 ft, est. ~ 10 ft above pump for motor ≥ 10 hp)

$Q = (8.8 \times 0.7 \times \text{HP}) / [Z + (2.31 \times \text{PSI})] = (8.8 \times 0.7 \times 10) / [175 + (2.31 \times 60)] = \mathbf{0.20 \text{ cfs}}$ est. capacity of pumping system

Measured Method: Pump Test Flow (well capacity est. different motor & pump used than currently in place):

Maximum Discharge => Q = **0.27 cfs** (see attached email with Layne of Idaho pump test summary)

Theoretical HP Equation est. capacity of pumping system = **0.20 cfs**

Pump Test Flow = **0.27 cfs**

Permitted Rate Fire Protection Use = **1.11 cfs**

Beneficial Use Limit = **No standard/policy rate for Fire Protection use.**

Proof of Beneficial Use fee paid = \$125.00 = up to **2.00 cfs**

Recommend Theoretical HP Equation Estimation = 0.20 cfs

Theoretical HP Equation est. 0.20 cfs recommended, because likely closer estimate of actual system capacity than pump test discharge with 150 hp motor. See Narrative/Remarks/Comments section for POD overlap information.

F. VOLUME CALCULATIONS

- Volume Calculations for Irrigation: **N/A** (no irrigation use permitted).
- Volume Calculations for Other Uses: **N/A** (no volume required for fire protection use).

G. NARRATIVE/REMARKS/COMMENTS**SYSTEM DESCRIPTION:**

System consists of a well with 10 hp submersible motor/pump discharges via 2 in. line to 10,000 gallon holding tank from which a 30 hp booster motor/pump discharges water via a 6 in. line into the 8 in. pipeline to fire suppression system within Star Pass Ridge Subdivision consisting of 3 fire hydrants. Well has dedicated power line/source with Idaho Power meter number 41 018 264 and pole # 02N02W2204. Canyon Co. tax lots of lots served by system used to create ArcMap place of use shape assuming fire hoses connected to hydrants could fight fire anywhere within the subdivision.

POD AMENDMENT:

Original application and permit proposed drilling of a new well within the subdivision for the fire protection system. However, permit holder did not drill a new well, but instead developed the fire protection system from an existing irrigation well in a different 40 acre tract. A licensing amendment is required to record the correct 40 acre tract location for the POD utilized.

OVERLAP:

No other water rights on the property for fire protection use. Well is currently only used for the fire protection system. Historically, the well served as irrigation well for parent rights 63-2724 and 63-7610. See POD Overlap Analysis Memo for details. Current diversion works less capacity than historical irrigation system, i.e. no additional capacity has been added to system via development of this permit. Therefore, recommend combined use condition(s) limiting diversion rate under this permit (63-31982) with overlapping POD rights to rate licensed and decreed under existing rights.

OVERLAP CONTINUED:

Recommend the following conditions to address POD overlap:

Rights 63-2724B, 63-31982, 63-32381, 63-32382, 63-32383, 63-32384, and 63-33833 shall not exceed a total diversion rate of 1.73 cfs.

Rights 63-2724B, 63-7610C, 63-7610D, 63-31982, 63-32381, 63-32382, 63-32383, 63-32384, and 63-33833 shall not exceed a total diversion rate of 2.23 cfs.

Rights 63-2724B, 63-7610C, 63-7610D, 63-31982, 63-32381, 63-32382, 63-32383, 63-32384, and 63-33833 are diverted through the point of diversion described above.

COMPLIANCE WITH PERMIT CONDITIONS:

Permitted water bearing zone 450 ft to 480 ft. No well log available for this well drilled in the 1950's per well owner. WR records for overlapping parent right 63-2724 indicate the well was at one time up to 750 ft deep, with perforated casing from 200 ft to 320 ft then open hole to ~ 750 ft. However, well owner indicated well has since caved in. Well is outside Bsn 63 Ground Water Restricted Area, therefore the water bearing zone condition can be removed at licensing regardless of it's depth. Well is currently only used for the fire protection system. To the best of my knowledge, owner is in compliance with all other permit conditions.

Have conditions of permit approval been met? X Yes* No
 *Conditions met provided WB Zone condition removed as discussed above.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FIRE PROTECTION	01/01 to 12/31	0.20 CFS	
<u>Totals:</u>		0.20 CFS	

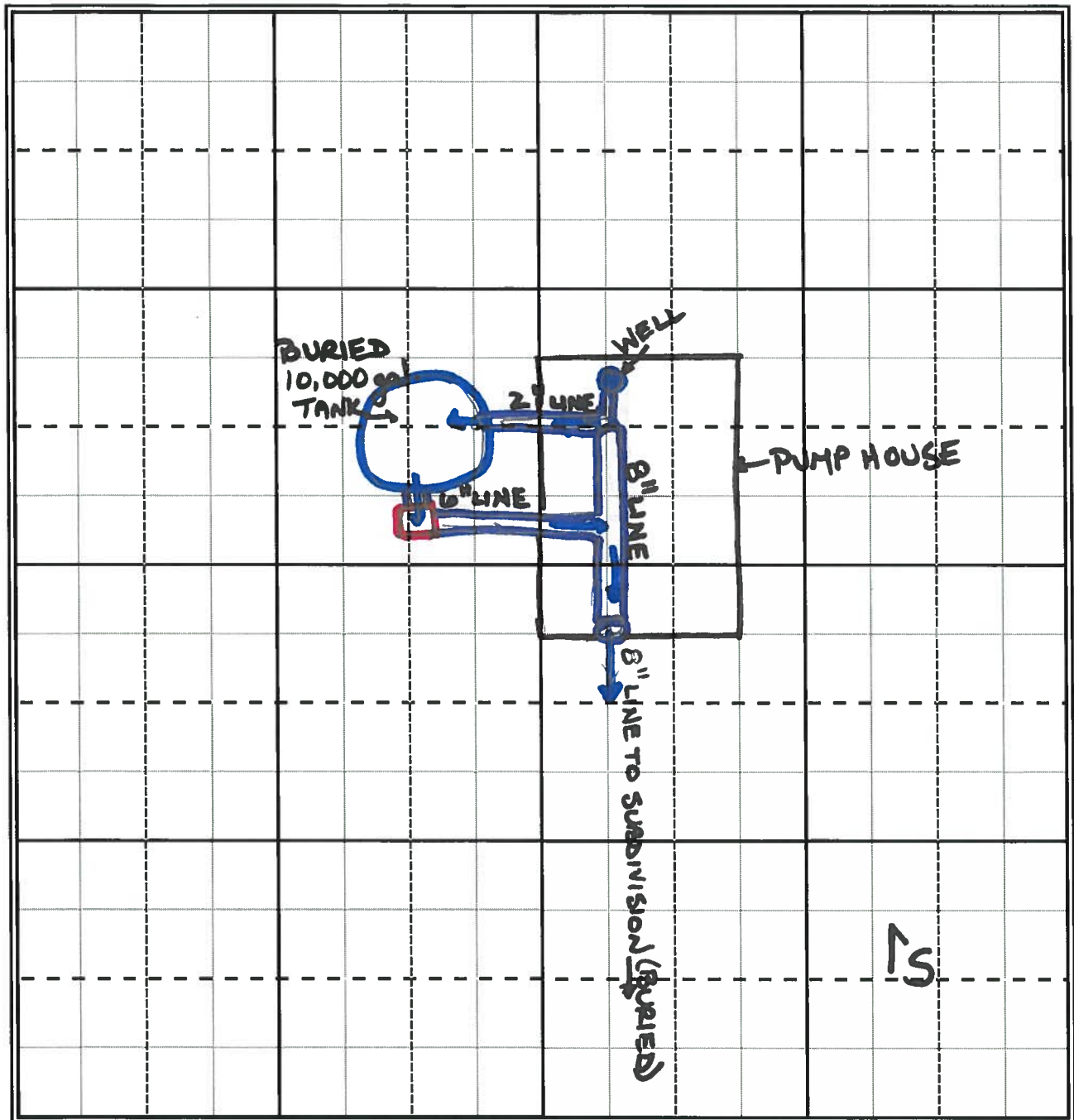
2. Recommended Amendments

 X Change P.D. as reflected above Add P.D. as reflected above None
 Change P.U. as reflected above Add P.U. as reflected above Other

I. AUTHENTICATION

Field Examiner's Name Angeli M. Gummer Date 3/12/2014
 Reviewer _____ Date _____

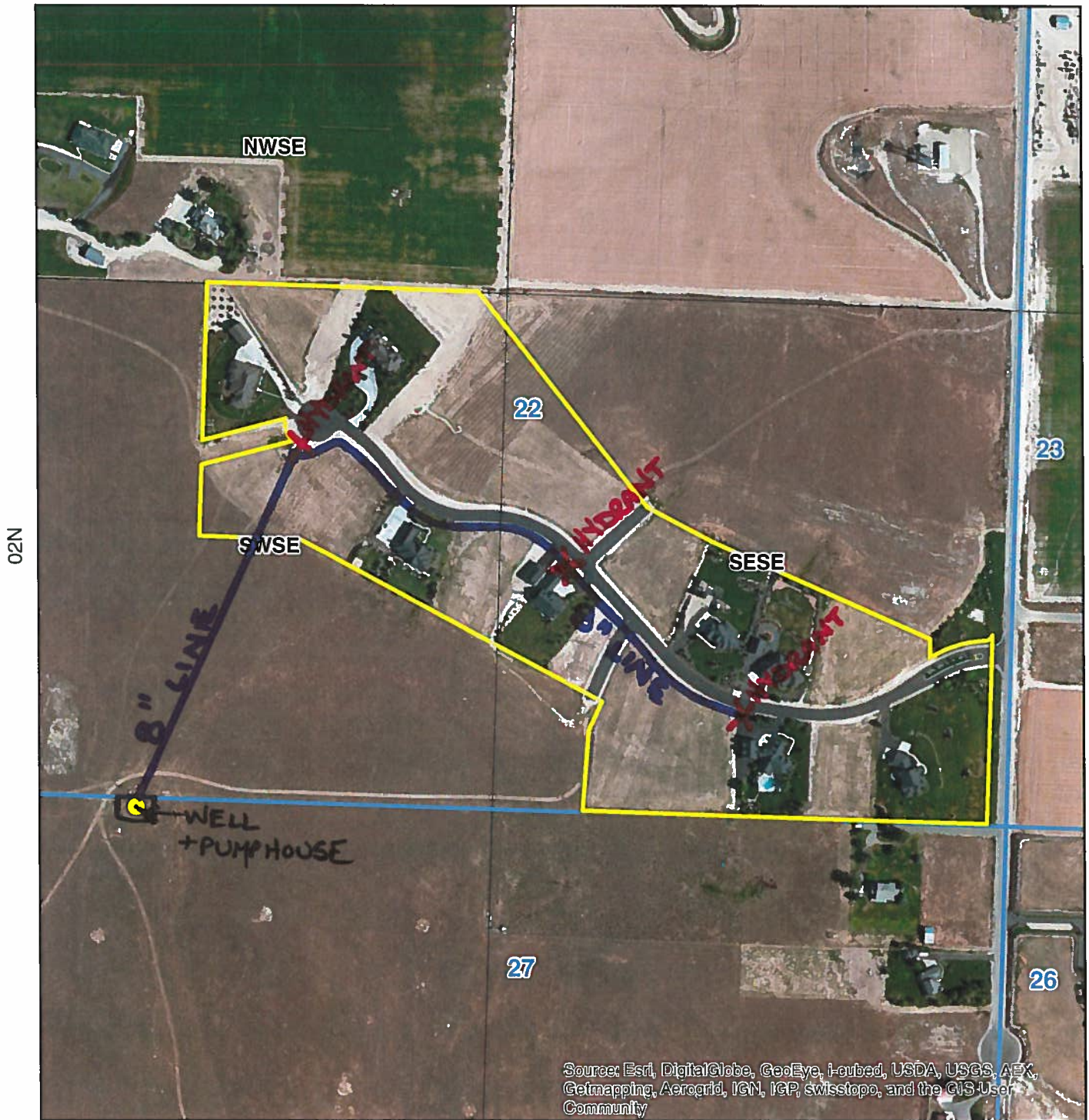
63-31982 Beneficial Use Field Report Diversion System Diagram



Not to Scale

63-31982 Beneficial Use Field Report System Diagram & Map

02W



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

0 0.0475 0.095 0.19 Miles



Grimm, Angie

From: Jeff Agenbroad [jagenbroad@gmail.com]
Sent: Thursday, August 30, 2012 4:15 PM
To: Grimm, Angie
Subject: Agenbroad well info
Attachments: Layne well test.pdf

Angie,
Attached is the Layne invoice we spoke about with some well test info.
Thanks
Jeff Agenbroad

Invoice

Layne of Idaho, Inc.
P. O. Box 1005
Nampa, ID 83653

Invoice Number:
11156

Invoice Date:
Jul 11, 2006

Voice: 208-466-7376
Fax: 208-466-5078

Page:
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Sold To:
Bullock & Company
302 12th Ave Road
Nampa, ID 83651

Customer ID: BULL001

Customer PO	Payment Terms	Due Date	Sales Rep ID
0506/055	Net 30 Days	8/10/06	

Quantity	Item	Description	Unit Price	Extension
		150 hp 8 stg 9 RCHC 230' x 8" x 2 1/2" x 1 1/2"		
1.00	Pull Pump only	Hanging by shaft, fishing time 26 hr @ 130.00	3,380.00	3,380.00
1.00	Pull and Set	test pump	690.00	690.00
1.00		Test well - 4 hrs	480.00	480.00
		Set test pump @ 192' Static was 163'		
		10:30 am Started test pumping @ 80 GPM		
		water level dropping - pumping sand & dirt		
		10:45 am Water level stabilized @ 178' - still		
		pumping dirt & sand		
		11:15 am Raised pumping volume to 100		
		gpm, water level dropping - pumping very fine		
		sand		
		11:30 am Water level stabilized @ 181'		
		pumping very fine sand		
		11:45 am Raised pumping volume to 120		
		gpm - Water level dropping - pumping very		
		fine sand		
		12:00 pm Water level stabilized @ 185' - still		
		pumping fine sand		
		12:15 pm Water level 185' @ 120 gpm - fine		
		sand		

	Subtotal	Continued
	Sales Tax	Continued
	Total Invoice Amount	Continued
Check No:	Payment Received	Continued
	TOTAL	Continued

We will add finance charges on invoices more than 30 days overdue.

Layne of Idaho, Inc.
P. O. Box 1005
Nampa, ID 83653

Voice: 208-466-7376
Fax: 208-466-5078

Invoice

Invoice Number:
11156

Invoice Date:
Jul 11, 2006

Page:
2

pd. 8/13/06

Sold To:
Bullock & Company
302 12th Ave Road
Nampa, ID 83651

Customer ID: BULL001

Customer PO	Payment Terms	Due Date	Sales Rep ID
0506/055	Net 30 Days	8/10/06	

Quantity	Item	Description	Unit Price	Extension
		12:30 pm Water level 184' @ 120 gpm fine sand		
		12:45 pm Water level 184' @ 120 gpm fine sand		
		1:00 pm Dropped volume to 100 gpm Water level coming up fine sand		
		1:15 pm Water level stabilized @ 181' pumping less sand		
		1:30 pm Water level stabile @ 181' Sand decreasing		
		2:00 pm Water level stabile @ 181' Still some fine sand		
		2:30 pm Water level stabile @ 181' Still some fine sand		
		Stopped test & began pulling pump		
		3:00 pm Water level recovered to 163'		

Subtotal 4,550.00

Sales Tax

Total Invoice Amount 4,550.00

Payment Received 0.00

TOTAL 4,550.00

Check No:

We will add finance charges on invoices more than 30 days overdue.

63-31982 Beneficial Use Field Report Photos



63-31982 Exam 8/30/2012: POD pump house facing south. POD well at back end (south) portion of pump house, casing not visible at surface.



63-31982 Exam 8/30/2012: Motor pumps water from buried storage tank facing south. 2 inch line from well to buried storage tank and 6 inch line from storage tank to 8 inch mainline. East side of pump house.

63-31982 Beneficial Use Field Report Photos Continued



63-31982 Exam 8/30/2012: Initial fire hydrant off buried 8 inch mainline facing south. POD pump house in photo middle ground left of evergreen trees.



63-31982 Exam 8/30/2012: Final fire hydrant off buried 8 inch mainline facing southeast.

MEMORANDUM

TO: Right/Permit File 63-31982

FROM: Angie Grimm

DATE: March 12, 2014

RE: POD Overlap Analysis

Point of diversion (POD) overlap analysis for permit 63-31892 field examination, conducted 8/30/12, findings:

- The POD well for permit 63-31982 ("North well") originally developed for use under irrigation water right 63-2724 (1.9 cfs irrigation 220 acres = ~0.0086 cfs/ac).
- A second POD well ("South well") supplied an additional 2.0 cfs capacity to the irrigation system; this additional capacity was licensed under water right 63-7610. License 63-7610 authorized total diversion of 3.9 cfs (both PDs) for irrigation of 200 acres [40 acres overlapping with right 63-2724 + 160 acres new land] (2.0 cfs/200 acres = 0.01 cfs/ac).
- Right 63-2724 split into active child rights; 63-2724B, 63-33833, 63-32381, 63-32382, 63-32383, and 63-32384.
- Right 63-7610 split into active child rights; 63-7610C, 63-7610D, 63-31395, and 63-31396. Transfer No. 69662 accounted for combined use limitations when removing right 63-31396 from the system, eliminating the need to include this right in any future combined use conditions.
- Field examinations for 63-31394 and 63-31892 confirmed there is no longer a physical connection (pipe) between the north well and the south well.
- The north well is an authorized PD for the following rights: 63-2724B, 63-33833, 63-32381, 63-32382, 63-32383, 63-32384, 63-7610C, and permit 63-31892.
- The south well is an authorized PD for the following rights; 63-7610C, 63-31394, and 63-31395.
- Currently, right 63-7610C is the only right with both the north well and the south well as an authorized POD. Water is not being diverted for this right from either the north or the south well at this time. Owner of the south well confirmed the water right owner of 63-7610C is no longer allowed access to use the south well as a POD. Transfer approval for right 63-7610D removed the south well as an authorized POD. Transfer approval for right 63-31395 removed the north well as an authorized POD.
- Portions of parent rights 63-2724 and 63-7610 were not claimed/decreed [20 acres in 2N 2W 27 NW NW of 63-2724 & 40 acres in 2N 2W 22 SE SE decreed as portion of 63-2724 not 63-7610 (previously common acres under both parent rights) & 10 acres in 2N 2W 27 SE SE of 63-7610] and/or have been removed from the system (5 acres in 2N 2W 27 SE SE). Therefore, the total quantity authorized for diversion under valid water rights from the two wells when combined should no longer be 3.9 cfs.
- Currently, there is no overlap in POU of any acres described in active child rights of 63-2724 and 63-7610.

- In order to minimize the use of combined limiting conditions for diversions from these wells that are no longer a physically combined system, right 63-31394 was licensed with a condition stating diversion for 63-31394 and 63-31395 when combined can't exceed the 2.12 cfs system capacity from the south well. No condition was placed on 63-31394 referencing the children of right 63-2724 or the historic north well + south well limited use of 3.9 cfs (the wells were not connected when permit 63-31394 was developed). However, a condition was recommended for licensing of 63-31394 acknowledging other rights included the south well as an authorized POD (63-7610C and 63-7610D).
- The following summarizes diversion rate and acres of 63-2724 child rights:
 - 63-2724B = 0.76 cfs 88.0 ac
 - 63-33833 = 0.28 cfs 32.0 ac
 - 63-32381 = 0.09 cfs 10.0 ac
 - 63-32382 = 0.08 cfs 9.0 ac
 - 63-32383 = 0.04 cfs 5.0 ac
 - 63-32384 = 0.48 cfs 56.0 ac
 - Total = 1.73 cfs 200 ac
- All valid 63-2724 child rights total 1.73 cfs. This rate should be used as a combined limit with all the child rights of 63-2724 plus right 63-31892 (being prepared for licensing) considering no additional rate was developed from the north well under this permit.
- The following summarizes the diversion rate and acres of 63-7610 child rights (rate from each well estimated based on portion of rate developed from south well, i.e. portion of 1.9 cfs from north well + portion of 2.0 cfs from south well = total rate for acreage developed under parent right 63-7610):
 - 63-7610C = 0.39 cfs (0.19 cfs north well + 0.20 cfs south well) 20 ac
 - 63-7610D = 0.59 cfs (0.29 cfs north well + 0.30 cfs south well) 30 ac
 - 63-31395 = 1.80 cfs (0.90 cfs north well + 0.90 cfs south well) 90 ac
 - Total = 1.40 cfs new/additional rate developed from south well unique from the rate developed under the north well already described in child rights of 63-2724.
- Total of 3.13 cfs (of the 3.9 cfs originally licensed under rights 63-2724 + 63-7610) should be rate limit for all child rights of 63-2724 in combination with all child rights of 63-7610.
- Right 63-31395 did not list the north well as an authorized POD during the permit development period of 63-31892.
- Right 63-7610 D did list the north well as an authorized POD during the permit development period of 63-31892.
- The child rights of 63-2724 combined with the child rights of 63-7610 authorized to divert from the north well during the development period of permit 63-31892 should have a total combined use rate limit of 2.23 cfs (1.73 cfs child rights of 63-2724 + 0.20 cfs new rate 63-7610C + 0.30 cfs new rate 63-7610D = 2.23 cfs).
- Similar to condition recommendations for 63-31394, I am recommending the following conditions to address the POD overlap to minimize reference to combined use limitations for the right from a system that is no longer physically connected:

- Right 63-31982 with 63-2724B, 63-33833, 63-32381, 63-32382, 63-32383 and 63-32384 when combined shall not exceed a diversion rate of 1.73 cfs.
- Right 63-31982 with 63-2724B, 63-33833, 63-32381, 63-32382, 63-32383, 63-32384, 63-7610C and 63-7610D shall not exceed a diversion rate of 2.23 cfs.
- Rights 63-2724B, 63-33833, 63-32381, 63-32382, 63-32383, 63-32384, 63-31982, 63-7610C and 63-7610D authorize diversion from the point of diversion described above.
- Recent processing of Transfer No. 78883 for right 63-33833 and Transfer No. 78812 for rights 63-7610D, 63-32382, 63-32383 and 63-32384 did not fully address the overlap issues discussed above. The transfer approvals were issued with the following condition:
 - Rights 63-2724B, 63-7610C, 63-7610D, 63-31982, 63-32381, 63-32382, 63-32383, 63-32384 and 63-33833 when combined shall not exceed a diversion rate of 3.9 cfs.

63-31982 is still a permit record for which licensing is being proposed (this memo accompanying that licensing), which as such should have not been included in this condition for these transfers. Additionally, this condition does not account for all child rights of 63-2724 and 63-7610 originally licensed with a combined rate limit of 3.9 cfs OR the portions of these rights removed from the 3.9 cfs system OR portions not claimed/decreed (as discussed above). The combined diversion rate should've been 3.13 cfs (**all** active child rights of 63-2724 + 63-7610) as illustrated above.

- A database record will be added to each record included in the conditions recommended for licensing of 63-31982 illustrating the correct current combined rate limitations with reference to this memo. Hopefully this will help with any further transfer processing and/or administration of these rights.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 22, 2014

STAR PASS RIDGE HOMEOWNERS ASSN INC
8332 STAR PASS RIDGE RD
NAMPA ID 83686

RE: Water Right Permit No. 63-31982

Dear Permit Holders:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. Please be advised that we just received information from Bullock King Investments, LLC, which allowed us to change the ownership of this permit to your homeowners association. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the point of diversion was developed differently than described on this permit. The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at 334-2190.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosures: Amendment Application
System Diagram & Map



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 17, 2012

Bullock King Investments LLC
Attn: Greg Bullock
504 Boyhill Dr.
Nampa, ID 83686

RE: Scheduling Field Exam for Water Right Permit No. 63-31982

Dear Mr. Bullock:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the weeks of August 20 and August 27, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal conditions during the examination. The permit authorizes diversion of ground water for fire protection use.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 24, 2012**. If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Angela M. Grimm, P.G.
Water Resource Agent, Sr.

Grimm, Angie

From: Grimm, Angie
Sent: Monday, August 12, 2013 2:07 PM
To: 'cattleman.mike@gmail.com'
Subject: 63-31982 Assignment of Permit Request
Attachments: DOC010.pdf

Mike,

Good afternoon! As we discussed last summer and briefly on the phone moments ago, I've attached an Assignment of Permit form for use in changing the ownership of the Star Pass Ridge subdivision's fire protection system water right permit from the name of Bullock King Investments LLC to the homeowner's association (HOA) name. As personal property, ownership of the water right permit must be assigned by the permit holder of record (Bullock King Investments LLC) to the HOA, i.e. Bullock King Investments LLC must complete the attached form. A \$25.00 filing fee must be submitted with the form.

Once the assignment of permit is received and processed, the permit may be licensed in the name of Star Pass Ridge HOA as a water right. If for whatever reason Bullock King Investments LLC does not complete the assignment form, the permit may be licensed, but it would be licensed in the name of Bullock King Investments LLC. After licensing, the Star Pass Ridge HOA would be required to submit a Notice of Change in Water Right Ownership to update ownership.

If the Assignment of Permit form is not submitted within the next sixty (60) days, I will move forward with licensing of the permit in the current permit holder's name (Bullock King Investments LLC). Please feel free to contact me if you have any questions. Thank you in advance for your attention to this matter.

Sincerely,

Angela M. Grimm, P.G.
Water Resources Agent, Sr.
IDWR - Western Region
2735 Airport Way
Boise, ID 83705-5082
(208) 334-2190 phone
(208) 334-2348 fax

Grimm, Angie

From: postmaster@idwr.idaho.gov
Sent: Monday, August 12, 2013 2:07 PM
To: Grimm, Angie
Subject: Delivery Status Notification (Relay)
Attachments: ATT212743.txt; 63-31982 Assignment of Permit Request

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

cattleman.mike@gmail.com