

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33603
Exam Date: 10/22/2020

1. Current Owner:
ROMAN SCHWARTSMAN 6590 W NORWOOD DR BOISE ID 83704 AND/OR
NADINE SCHWARTSMAN 6590 W NORWOOD DR BOISE ID 83704
2. Accompanied by: ROMAN SCHWARTSMAN
Phone No: 208-901-0909
Address: 6590 W NORWOOD DR BOISE ID 83704
Relationship to permit Holder:

3. SOURCE:

GROUND WATER

Method of Determination: Observation

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
Farmers Union Ditch Company			
City of Eagle			
New Dry Creek Ditch Company			

Comments: Farmers Union Ditch Company and New Dry Creek Ditch Company has irrigation water rights with POUs overlapping the property. The current owner has 5.25 shares of Farmers Union Ditch Company water and no shares of New Dry Creek Ditch Company. The irrigation portion of this water right is a supplemental water right. The property owner maximizes the surface water available before the groundwater is utilized. This property is also outside the City of Eagle municipal system extents. Therefore, they cannot use the City of Eagle municipal system.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no overlapping water rights.

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

GROUND WATER SE¼ NE¼, Sec. 35, Twp 05N, Rge 01W, B.M. ADA County

Method of Determination: GIS, GPS, and visual inspection

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	01W	35			38	27													65

Total Acres: 65

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	01W	35				X													

PLACE OF USE: COMMERCIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	01W	35				X													

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	01W	35				X													

PLACE OF USE: FIRE PROTECTION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	01W	35				X													

Method of Determination: GIS, GPS, and visual inspection

3. See Appendices A and D

 X Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 X Indicate weir size/pipe as applicable.

 X 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
D0060315	Hitachi	40	G27771E	Hitachi	G27771E (VFD)

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Ultrasonic	Panametrics	GE	PT878	GAA1620004		

2. Measurements: Measurements were taken on the pipe downstream of where both wells come together. See measurements in Appendix B. Maximum flow rate recorded was 474 gpm (1.06 cfs).

E. FLOW CALCULATIONS

 X Add. Computation Sheets Appendix B

Measured Method:

Irrigation Beneficial Use –

Per panametric flow calculations, the system's max flow capacity is approximately 1.06 cfs utilizing both wells. The water permit is considering the large well only. A theoretical calculation was developed to estimate the flow of the large well only see Appendix B. Additional work on the system was completed to attempt to separate the small and large well systems. A condition should be placed on the license to require that the systems are used separately.

Calculated flow capacity = 65 acres x 0.02 cfs/acre = 1.3 cfs

Recommended flow rate = 0.88 cfs (based on theoretical calculations see Appendix B)

Domestic Beneficial Use – 0.04 cfs (standard flow rate for one house)

Stockwater Beneficial Use – 0.02 cfs (standard flow rate)

Fire Protection – 0.88 cfs (based on theoretical calculations see Appendix B)

Commercial Beneficial Use – 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (65 \text{ acres}) \times (4.5 \text{ afa per acre}) = 292.5 \text{ AF}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.88 \text{ cfs}) \times (260 \text{ days}) \times (1.9835) = 453.82 \text{ AF}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 292.5 \text{ AF}$

2. Volume Calculations for Other Uses:

Domestic – $(150 \text{ gals/day/person} \times 2 \text{ people} \times 365 \text{ days}) / 325850 = 0.34 \text{ AF}$

Fire Protection - No volume calculation required.

Commercial – 1.0 AF (Appendix B for calculations)

Stockwater – $38 \text{ horses} \times 12 \text{ gpd/horse} \times 365 \text{ days} = 166,440 \text{ gals} = 0.51 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

Roman and Nadine Schwartzman are water users that own North Star Farms located at 4221 N. Linder Road, Boise, ID 83616. The permit has beneficial uses for domestic, stockwater, fire protection, commercial, and irrigation purposes for a permitted total water diversion rate of 1.60 cfs. A summary of the beneficial uses specified in the permit include:

- Domestic beneficial use will provide water for two homes and one bunkhouse,
- Stockwater beneficial use will provide water for 30 head of horses,
- Fire protection,
- Commercial beneficial use will provide water for a horse stable, and
- Irrigation beneficial use will provide water for 80 acres of agricultural land.

The water user's permit was issued on April 5, 2012 and proof was due on April 1, 2013. The well was drilled and all necessary infrastructure serving domestic, stockwater, fire protection, and commercial purposes were installed and are operational. Due to a legal dispute with a neighboring land owner, the design and installation of the well-based irrigation system for the 80-acre property was not installed. A Request for Extension of Time was submitted to IDWR and was accepted which changed the proof due date to April 1, 2018. On March 30, 2018, the water user submitted their proof information for all of the permitted beneficial uses.

The water user has irrigation rights from Farmer's Union Irrigation Company. Therefore, the well irrigation is a supplemental permit to the surface water.

After the field exam was completed, the summary of beneficial uses were updated to include:

- Domestic beneficial use will provide water for one bunkhouse with a recommended flow rate of 0.04 cfs and a recommended total volume of 0.34 AF,
- Stockwater beneficial use will provide water for 38 head of horses with a recommended flow rate of 0.02 cfs and a recommended total volume of 0.51 AF,
- Fire protection with a recommended flow rate of 0.88 cfs,
- Commercial beneficial use will provide water for a horse stable with a recommended flow rate of 0.04 cfs and a recommended total volume of 1 AF, and
- Irrigation beneficial use will provide water for 65 acres of agricultural land, with a recommended flow rate of 0.88 cfs, and a recommended total volume of 292.5 AF.

The existing residential house has a separate exempt domestic well.

It appears that the water system pulls from two separate wells not one. The exact piping configuration is unknown therefore a reasonable assumption was made. It appears that the two well supply pipes are connected in the pump house. The panametric flow meter was set up downstream of the connection. Therefore, the measured flow included both wells. During the flow measurement process, it was found that the pumps were not functioning properly. The 40 HP pump would cycle until the system kicked over to the pressure tank and the 40 HP pump would turn off.

This property is located in the Basin 63 Groundwater Restricted Area which requires that wells in this area must draw water from depths greater than 200 ft. The 40 HP pump is pumping at depths greater than 200 ft because the screens are located between 272 to 282 and 284 to 304. The 5 HP pump is pumping at depths less than 200 ft. The total well depth is 110 ft. Therefore, there is an issue with the current system which needs to be addressed by the Department. The 5 HP pump also does not meet the water bearing zone conditions on the permit of 250 to 400 ft.

After multiple discussions with IDWR staff, the water user, and the contractor who installed the system, it was agreed upon that the contractor would separate the two well systems. IDWR staff completed an additional site visit on 10/22/2020 to inspect the system changes. Staff observed that small well connection was removed from the south side of the manifold as seen in Appendix D Picture #12. The connection for the small well was then attached to the black section on the north side of the manifold as seen in Appendix D Picture #13 - #14. Therefore for the systems to be separated, the valve shown in Appendix D Picture #15 must remain closed when irrigation system is operating. Assuming the systems are operated independent from each other, the conditions of the permit approval have been met.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/01 to 11/15	0.88 CFS	
STOCKWATER	01/01 to 12/31	0.02 CFS	0.5

COMMERCIAL	01/01 to 12/31	0.04 CFS	1.0
DOMESTIC	01/01 to 12/31	0.04 CFS	0.3
FIRE PROTECTION	01/01 to 12/31	0.88 CFS	

Totals: 0.88 CFS

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 Emily Skoro - Engineer, Staff

Field Examiner's Name Emily Skoro Date 11/18/2020

Reviewer David H. M. A. Date 11-19-2020

Appendix A
Site Maps

Parcel Information



Stockwater POU



© 2015 D.R. F. S. Aerial Photography and other works to be credited as derived products.

Irrigation POU



Fire Protection POU



Domestic POU



The USGS/PSA World Photography Project is to be created in digital products.

Commercial POU



The USDA Forest Service is providing this data for informational purposes only. It is not to be used for any other purpose.

63-33603 PODs



The USDA-FSA Aerial Photography Field office asks to be credited in derived products.

Appendix B
Calculation Sheets

Recommended Flow Rate and Volume Calculations
Water Permit 63-33603

Flow Measurement of Pipe

Max Flow Rate = 474 gpm= 1.06 cfs* *This measurement was taken downstream of where both wells were combined into one system.

Based on theoretical calculations found in Appendix B, a maximum flow for the large well only was estimated to be:

Large Well Max Flow Rate= 0.88 cfs

Irrigation Beneficial Use

Information

Total irr. Acres = 65
Max. allowed flow rate = 0.02 cfs/acre
Max water allowed= 4.50 afa per acre at the field headgate
Days irrigating= 260 days

Calculated Max Flow Rate

Total flow rate = 1.30 cfs
System Max Capacity= 1.06 cfs (per panametric flow meter reading)
Large Well Max Capacity= 0.88 cfs (per theoretical calculations)

Calculated Max Volume

V_{DR} = 453.82 AF
 V_{IR} = 292.50 AF

Recommended Flowrate= 0.88 cfs
Recommended Volume= 292.50 AF

Domestic- Bunkhouse

Information

Flow Rate= 150 gals/day/person
Occupants= 2 people
Days= 365 days
300 gpd

Max Flow Rate

Flow Rate= 0.04 cfs (Standard per IDWR Policy)
Max Volume = 0.3 AF

Recommended Flowrate= 0.04 cfs
Recommended Volume= 0.34 AF

Commerical Beneficial Use - Horse Stable

Information

of Horses= 38
of Stalls= 37

Clean horses (Inside)

Owner stated that they clean 4 horses a day from May - October

of horses= 4 horses per day cleaned
Flow Rate= 2.5 gpm
Time= 30 mins (assumed)
Days= 184 days
Volume= 55,200 gals= 0.17 AF
GPD flow rate= 300 gpd

Clean Stalls

of stalls= 37
of cleanings= 1 per year
Flow Rate= 5 gpm
Time= 30 mins (assumed)
Volume= 5550 gals= 0.02 AF
Final GPD= 150 gpd

Dust Suppression

Water once a day during the irrigation season

Sprinkler is an Orbit with a 9/64 nozzle. The pressure was measured to be 56 psi.

of waterings= 260 days
(This number was developed by the
Flow Rate= 4.42 gpm per zone nozzle flowrate calculator)
of mins per zone= 7 mins
of Zones= 8 zones
Volume= 64355.2 gals= 0.20 AF
Final GPD= 247.52 gpd

Outside Wash Area

of days= 91 days (June, July, and August)
of Horses= 38
Hose= 5 gpm
Time per horse= 5 mins/horse
Volume= 86450 gals= 0.27 AF
Final GPD= 950 gpd

Visitors

of Visitors= 15 people/day
Flow Rate= 15 gals/person/day
Days= 365
Final GPD= 225 gpd

Total Flow Rate= 225 gpd* This gpd occurs over an 8 hour period in the day
Assume 5 minutes per person 75 total minutes

3 gpm* This also matches the per fixture table in the field examiners handbook of 1 gpm per fixture and there are 3 fixtures
Total Volume = 82125 gals= 0.25 AF

Workers

of Workers= 4 workers/day
Flow Rate= 15 gals/person/day
Days= 365
Total Flow Rate= 60 gpd
Assume 5 minutes per person 20 total minutes

3 gpm* This also matches the per fixture table in the field examiners handbook of 1 gpm per fixture
Please note the workers use the same facilities as the guests therefore their GPM was not added to the total.
Total Volume = 21900 gals= 0.07 AF

Visitors and Workers Combined

of Workers= 4 workers/day
of Visitors= 15 people/day
Flow Rate= 15 gals/person/day
Days= 365
Final GPD= 285 gpd
Total time used per day= 95 mins (Assume 5 minutes per person)
Final Combined GPM= 3 gpm
Total Volume= 104025 gals= 0.32 AF

System

Total Flow Rate= 19.92 gpm
Total Volume= 315,580 gals= 0.97 AF 1932.52 gpd

Task	# of Horses/Day	# of Stalls/Year	# of Zones/Day	# of People/Day	Flow Rate (gpm)	Flow Rate (gpd)	Time (mins)	Days	Annual Volume (gals)	Annual Volume (AF)
Clean Horses Inside	4				2.5	300	30	184	55,200	0.17
Clean Stalls		37			5	150	30		5550	0.02
Dust Suppression			8		4.42	247.52	7	260	64355.2	0.20
Vistors and Workers				19	3	285		365	104025	0.32
Outside Wash Area	38				5	950	5	91	86450	0.27

Totals= 19.92 1,932.52 315,580.20 1.0

Recommended Flowrate= 0.04 cfs
Recommended Volume= 1.0 AF

Stockwater

Information

of horses= 38
Flow Rate= 12 gpd/horse
Days= 365 days
456 gpd

Calculated Max Flow Rate

Standard Stockwater FR= 12,926 gpd 8.98 gpm= 0.02 cfs

Calculated Max Volume

Volume= 166,440 gals= 0.51 AF

Recommended Flowrate= 0.02 cfs (Standard flow rate for beneficial use)
Recommended Volume= 0.51 AF

Fire Protection

Combined Flow Rate 474 gpm= 1.06 cfs (Maximum system capacity)
Large Well Flow Rate 328.9 gpm= 0.88 cfs (Theoretical maximum system capacity for large well)

Summary Table	Rec. Flow Rate (cfs)	Rec. Volume (AF)	Acres
Irrigation	0.88	292.50	64.7
Commercial	0.04	1.0	
Domestic	0.04	0.34	
Stockwater	0.02	0.51	
Fire Protection	0.88		

We will not include a maximum volume on the Irrigation because it is a supplemental use.

Flow Rate Calculator Summary

Sprinkler Nozzle Flow Rate Calculator

Summary of Methodology

This spreadsheet tool supports the estimation of the flow rate from a sprinkler nozzle or series of sprinkler nozzles. The user can specify up to three different sprinkler nozzle types, and the total number of each of the three types of nozzles. The equation used to calculate the flow rate(s) is a simplified form of the Bernoulli Equation, which along with several supporting relationships, were developed from Hagan et. al. 1987, Jensen 1983, and Lindeburg 1999.

Summary of User Input

	Nozzle Type 1	Nozzle Type 2	Nozzle Type 3
C Value:	1	1	1
Nozzle Press.:	56	0	0
Nozzle Diam.:	0.140625	0	0
No. of Nozzles:	1	0	0

Summary of Results and Output

Type 1 Nozzle(s):	4.42	gpm
Type 2 Nozzle(s):	0.00	gpm
Type 3 Nozzle(s):	0.00	gpm
Combined:	4.42	gpm

References

Hagan, R.M., Haise, H.R., & Edminster, T.W., *Irrigation of Agricultural Lands*, Agronomy No. 11, 5th Printing. American Society of Agronomy, Madison, WI, USA, 1987.
 Jensen, M.E., *Design and Operation of Farm Irrigation Systems*, Revised Printing. American Society of Agricultural Engineers, 1983.
 Lindeburg, Michael R., *Civil Engineering Reference Manual*. Professional Publications, Belmont, CA, 1999.

Applicant: **Emily Skoro**

Date: **10/8/2019**

WR Number: **63-33603**

Notes: For the dust suppression portion of the commercial beneficial use.

File Title: C:\Users\dnelson\Desktop\LOG02.LOG
 File Name: C:\Users\dnelson\Desktop\LOG02.LOG
 Start Time: 10/8/2019 9:15
 End Time: 10/8/2019 9:26
 Interval: 60
 Records: 11
 Cyclic Flags: 2
 Error Flags: 8208

Date/Time	Velocity (ft/s)	Volume (gal/m)	(+)Total (gal)	Error #
10/8/2019 9:15	0.519551571	17.98103792	267654.5416	0
10/8/2019 9:16	13.65868407	472.7101788	268007.4099	0
10/8/2019 9:17	0.406014303	14.05165335	268269.2355	0
10/8/2019 9:18	1.993841333	69.00438491	268306.4091	0
10/8/2019 9:19	13.70382062	474.272299	268701.608	0
10/8/2019 9:20	13.49558095	467.0653812	269180.7445	0
10/8/2019 9:21	0.159300102	5.513179687	269390.0479	0
10/8/2019 9:22	1.559604909	53.97599883	269429.3436	0
10/8/2019 9:23	4.722543177	163.4413841	269468.0659	0
10/8/2019 9:24	13.67218865	473.1775557	269905.7302	0
10/8/2019 9:25	13.56058255	469.3150065	270385.3901	0

Maximum Flow Rate Recorded =

474 gpm

Average Flow Rate from Big Well =

273 gpm

Flow results are from a combined system including both the small and large wells not just the large well.

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33603
 Reviewer: Dan Nelson's Review of Pumping Rates.
 Date of Review: 10/22/2020

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

RATE OF FLOW (gpm)

Deep Well
40
0
161
66
0.79
353

Shallow Well
5
0
64
66
0.14
64

Total

0.93

416.79

Deep Well
40
0
129
66
0.88
393

Shallow Well
5
0
41
66
0.16
71

Total

1.03

464.35

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency,
 No Friction

Examiners Notes:

The pressure was measured at the well site. The well driller reports didn't give a reasonable pumping water level, so I had to use the standard or 1/2 of the distance between the static level and the total well depth to determine the estimated pumping water level. The estimated drawdowns are 161 feet for the deep well and 64 feet for the shallow well. Using these estimations, the total gallons per minute calculated was 417 gpm. The wells were measured at 464 gpm or 1.05 cfs. The measured flow rate seems more accurate, so I had to estimate the amount of water the deep well contributed at the diversion rate measured. Since the only unconfirmed portion of this measurement was the pumping water level, I determined that I needed to adjust the pumping water level in both wells until I received a similar pumping rate as the 464 gpm measured. From the original calculations, the Deep Well would provide approximately 84.6 % of the water when the 2 wells were operated together. By maintaining this percentage, I determined that the Deep Well would have produced approximately 393 gpm or 0.88 cfs when the two wells were operated together at a flow rate of 464 gpm or 1.03 cfs. I would recommend a diversion rate of 0.88 cfs for permit 63-33603.

Appendix C

Well Logs

Tag# = D00-0318

Form 238-7
6/07IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0060318

Drilling Permit No. 914019-862648

Water right or injection well # 103-33603

2. OWNER:

Name Roman Schwartzman M.D./ North Star Farms, LLC

Address 6590 Norwood Dr.

City Boise State ID Zip 83704

3. WELL LOCATION:

Twp. 5 North ☒ or South ☐ Rge. 1 East ☐ or West ☒

Sec. 35 1/4 SE 1/4 NE 1/4

Gov't Lot County Ada

Lat. 43 43.762 (Deg. and Decimal minutes)

Long. 116 24.916 (Deg. and Decimal minutes)

Address of Well Site 1/2 M. N. of Beacon Lt. Rd. on the W side

City

Lot. Blk. Sub. Name

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☐ Other

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
slurry mix	20	250	206.4cuft	tremie
3/8 bentonite	0	20	1700lbs	dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Linear	Threaded	Welded
8"	+2	272	.322	steel	☒	☐	☐	☒
8"	282	284	.322	steel	☒	☐	☐	☒
8"	304	305	.322	steel	☒	☐	☐	☒
					☐	☐	☐	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s)

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N MethodManufactured screen ☒ Y ☐ N Type alloy machine

Method of installation

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
272	282	.025	----	8"	stainless	---
284	304	.025	----	8"	stainless	---

Length of Headpipe Length of Tailpipe 1ft

Packer ☐ Y ☒ N Type

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
8-12 colorado	250	305	8000lbs	poured

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG)

Describe control device

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 17ft Static water level (ft) 17ft

Water temp. (°F) 57degF Bottom hole temp. (°F)

Describe access port monitor steel well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
	300+gpm	240mins

Test method:

Pump	Ball	Air	Flowing artesian
☐	☐	☒	☐
☐	☐	☐	☐

Water quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
12"	0	2	top soil		X
"	2	10	brown clay		X
"	10	42	gravel and sand	X	
"	42	51	tan clay		X
"	51	63	coarse sand	X	
"	63	80	sand with clay streaks	X	
"	80	93	coarse sand	X	
"	93	94	tan clay		X
"	94	117	coarse sand	X	
"	117	119	tan clay		X
"	119	120	sand	X	
"	120	126	tan clay		X
"	126	134	sand	X	
"	134	137	tan clay		X
"	137	153	sand	X	
"	153	156	blue clay		X
"	156	158	tan clay		X
"	158	177	coarse sand	X	
"	177	186	blue clay		X
"	186	196	coarse tan sand	X	
"	196	213	blue clay		X
"	213	216	gray sand	X	
"	216	245	blue clay		X
"	245	258	hard blue clay		X
"	258	305	coarse tan sand	X	

RECEIVED

JUN 18 2012

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) 305ft

Date Started: Dec 1, 2011

Date Completed: Jan 24, 2012

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Coonse Well Drilling Co. No. 409

*Principal Driller Date Jan 26, 2012

*Driller Date Jan 26, 2012

*Operator II Date

Operator I Date

* Signature of Principal Driller and rig operator are required.

Appendix D
Field Exam Site Photos

Photo #1 – Tag # D0060318 (40 HP Pump)



Photo #2 –40 HP Pump Information



Photo #3 – Pump Station Components



Photo #4 – Tag # D0060384 (5 HP Pump)



Photo #5 –5 HP Pump Information



Photo #6 –System Pressure

Photo #7 – Horse Stable



Photo #8 – Bunkhouse



Photo #9 – Pasture and Canal Area



Photo #10 – Stable Wash Stall



Photo #11 –
Fire Protection



Photo #11 – Irrigated Ground



Photo #12 – Site Visit 10/20/2020 Small well has been separated from the south side of the manifold



Photo #13 – Site Visit 10/20/2020 Small well was connected to black pipe that connects to the north side of the manifold.



Photo #14 – Site Visit 10/20/2020 Updated water system on the north side of the manifold.



Photo #15 – Site Visit 10/20/2020 Valve that needs to be closed for the two well systems to be isolated.

Skoro, Emily

From: Skoro, Emily
Sent: Thursday, October 17, 2019 12:12 PM
To: 'roman.schwartzman@gmail.com'
Cc: Nelson, Dan; Grimm, Angie
Subject: Water Permit 63-33603
Attachments: 63-33603 Letter.pdf

Mr. Schwartzman,

In our system analysis we found some discrepancies between your current system and the system described in the approved permit. I have sent you a copy of the letter in the mail but I wanted to email you a copy for your convenience. Please let me know how you would like to move forward.

Thanks,

Emily Skoro, PE

Staff Engineer
Idaho Department of Water Resources
Phone 208.287.4906
Fax 208.287.6700
Emily.Skoro@idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

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BRAD LITTLE
Governor

GARY SPACKMAN
Director

October 17, 2019

ROMAN AND NADINE SCHWARTSMAN
6590 W NORWOOD DR
BOISE ID 83704

RE: Water Appropriation Permit No. 63-33603

Dear Mr. and Ms. Schwartzman:

As part of the permit licensing process after the Statement of Completion has been submitted to the Department, the water use must be verified. To verify the water use, the Department staff must perform a field inspection, complete a field report, and prepare the license.

On October 8 of this year, Dan Nelson and I conducted a field exam on your property. During the field exam, the water system was observed and measured. Based on the completed field exam and subsequent system analysis, it has been found that there is a discrepancy between the approved water permit's system design and the constructed water system. Due to this discrepancy, the approved permit cannot be licensed in its current state.

The analysis identified two primary discrepancies in the system.

1. The permit to allocate water approved only one point of diversion. After observing the current system, it appears that the current system gets water from two wells. The two wells include one 40 HP pump (Well Tag #D0060315) and one 5 HP pump (Well Tag #D0060384/A0019158).
2. Your property is located in the Basin 63 Groundwater Restricted Area. In this area groundwater shallower than 200 feet below the ground surface is considered tributary to the Boise River upstream from Star Bridge. Wells that draw water from less than 200 feet below the ground surface are subject to additional constraints and conditions. There is a Condition of Approval (COA) #14 on the permit that states, "Water bearing zone to be appropriated is from 250 to 400 ft." This condition means that all of your wells must draw water from a depth greater than 250 ft and less than 400 ft. Well D0060315 is compliant with COA #14. Well #D0060384/A0019158 is not compliant with COA #14 because the well is only 110 feet deep.

Moving forward there are multiple approaches you can choose to take.

1. Choose to keep the current system set up and submit an Application for Amendment of a Permit and a mitigation plan.
2. Choose to make each well its own independent system. If you make two independent systems there are multiple alternatives to address each of the beneficial uses.
3. Choose to abandon well #D0060384/A0019158. If this option is chosen, the approved permit becomes consistent with the constructed system. A second field exam would be required to measure the system with only one pump running.

At this point, our staff would be happy to sit down and meet with you to discuss your options. If you are interested you may find it helpful to hire a water attorney or consultant familiar with water rights to help complete the process.

Sincerely,

A handwritten signature in cursive script that reads "Emily Skoro".

Emily Skoro

Staff Engineer

Idaho Department of Water Resources

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Email Emily.skoro@idwr.idaho.gov