State of Idaho
Department of Water Resources

Water Right License

Water Right No. 63-33742

Priority: February 06, 2013 **Maximum Diversion Rate:** 0.36 CFS

It is hereby certified that:

BLACKROCK SUBDIVISION HOMEOWNERS ASSN INC 5805 S GRAPHITE WAY MERIDIAN ID 83642-9067

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated February 06, 2013, and has submitted Proof of Beneficial Use on March 06, 2023. An examination confirms water is diverted from:

Source : GROUND WATER

Beneficial Use	Period of Use	Rate of Diversion
IRRIGATION	03/01 to 11/15	0.36 CFS

Location of Point(s) of Diversion
GROUND WATER NE¼ SW¼, Sec. 32, Twp 03N, Rge 01E, B.M. ADA County

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	
03N	01E	32								0.2	15.0					2.9			18.1

Total Acres: 18.1

Conditions of Approval

1. The right holder shall make full beneficial use of all surface water available to the right holder for irrigation of lands within the authorized place of use for this right. The right holder may divert ground water under this right to irrigate land with appurtenant surface water rights when the surface water supply is not reasonably sufficient to irrigate the place of use for this water right or is not available due to drought, curtailment by priority, or the seasonal startup and shutoff or maintenance schedule for canal company or irrigation district deliveries. The right holder shall not divert ground water for irrigation purposes under this right if use of the surface water supply is intentionally discontinued or reduced (for example abandoned, forfeited, sold, disallowed by court decree, or leased to the Water Supply Bank), or is not deliverable due to non-payment of annual assessments, without an approved transfer pursuant to Idaho Code § 42-222 or other Department approval.
2. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 81.5 af at the field headgate for the place of use.
3. This right when combined with all other rights shall provide no more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
4. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.

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JUL 05 2023

State of Idaho
Department of Water Resources

Water Right License

Water Right No. 63-33742

5. The diversion and use of water described in 63-33742 may be subject to additional limitations agreed to by the protestant(s) and the right holder under separate agreement to which the Department is not a party and which may be enforceable by a court of law.
6. Irrigation is for residential lots and common areas.
7. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

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 29th day of June, 2023.

SCOTT STORMS
Water Rights Supervisor

SCANNED
JUL 05 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

63-33742

This map depicts the IRRIGATION 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 0.05 0.1 0.2 Miles

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

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JUL 05 2023

Form 42-217 Rev. 6/22

RECEIVED
MAR 06 2023
DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

STATEMENT OF COMPLETION

FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY	
Amt. of Fee $	100 -
Receipt No.	C115472
Receipted By	KM
Date Receipted	3.6.23

The Idaho Department of Water Resources (Department) considers this form a statement that the permit holder(s) applied water to beneficial use and completed development of a water right to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner (CWRE).** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, complete a Notice of Change in Water Right Ownership form. If you wish to relinquish your permit because you have not established the authorized water use and are not applying for an extension, please notify the Department in writing.

1. Permit No. 63-33742 Name of Permit Holder(s) BlackRock Homeowners Assn Inc.
   Telephone No. 978-495-2366 Email 2ntnsv@gmail.com / BlackRock@hcpm.biz
   Mailing Address 5805 S. Graphite Way City Meridian State ID Zip 83642
2. Source of Water Ground Water If Ground Water (well), Date Drilled mo. 10 / yr. 2013
   Drilling Permit/Tag No. 0064686 Drilling Company's Name Steven's & Sons
3. Extent of use(s) completed **as authorized by the water right permit**:
   Domestic (No. households) _____ Irrigation (No. acres) 36* Stockwater (No. and stock type) _____
   Other *Limited to 25ac irrigation within a 36ac PPU
4. Total diversion rate or volume (storage only) for which proof is submitted .5 cfs OR _____ af
   If the total developed water use is 5 acres of irrigation or less, is stockwater storage of 14.6 acre-feet or less, or has a diversion rate of less than 0.24 cfs, attach a map of the place of use and point of diversion and photographs showing beneficial use.
5. Describe the diversion and delivery system from the water source to the use (pump, lift, irrigation method, etc.)
   Pump, Well & pressurized irrigation system.
6. Permit condition compliance. Refer to the permit approval conditions and check all the items required, then check "Yes" or "No" to indicate whether the required items were established, submitted, and/or installed:

Required?	Yes	No	(If "Yes", attach required data, evidence of compliance, or evidence of installation)
☐	☐	☒	Ground water level data, pumping information, or other diversion data
☐	☐	☒	Mitigation plan
☐	☐	☒	Lockable controlling works
☐	☐	☒	Measuring device
☐	☐	☒	Fish screen
☐	☐	☒	Other requirements of the water right permit _____
	☐	☒	Reasonably Anticipated Future Needs ("RAFN") Municipal use

   If RAFN Municipal use, additional increment of beneficial use developed? ☐ Yes (attach CWRE report) ☐ No
7. Fee Enclosed $ 100.00 or ☐ CWRE field report attached or ☐ No fee required
   See fee schedule on page 3 of the instructions. Proof statements filed without an appropriate fee are incomplete.
8. Person to contact to accompany a Department representative during the field examination of the water system:
   Name: Tim Foster Telephone No. 978-495-2366 Email 2ntnsv@gmail.com
   Mailing Address 5805 S. Graphite Way City Meridian State ID Zip 83642

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

SIGNATURE OF PERMIT HOLDER*	PRINTED NAME AND TITLE	DATE
	Tim Foster BlackRock HOA	3-3-2023

*Attach power of attorney if completing on behalf of permit holder.

SCANNED
MAR 13 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

June 30, 2023

BLACKROCK SUBDIVISION HOMEOWNERS ASSN INC
5805 S GRAPHITE WAY
MERIDIAN ID 83642-9067

RE: License No. 63-33742

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,

Scott Storms
Water Rights Supervisor

Enclosure(s)

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JUL 05 2023

CERTIFICATE OF SERVICE

I hereby certify that on June 30, 2023, I served a true and correct copy of Water Right License No. 63-33742 by U.S. Mail, postage prepaid, to the following:

BLACKROCK SUBDIVISION HOMEOWNERS ASSN INC (Current Owner)
5805 S GRAPHITE WAY
MERIDIAN ID 83642-9067

SCOTT KING
HDR INC (Representative)
412 E PARKCENTER BLVD STE 100
BOISE ID 83706-6659

Lynne Evans
Administrative Assistant I

SCANNED
JUL 05 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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JUL 05 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.

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JUL 05 2023

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33742
Exam Date:

1. Current Owner:
BLACKROCK SUBDIVISION HOMEOWNERS ASSN INC 5805 S GRAPHITE WAY MERIDIAN ID 83642-9067

2. Accompanied by: Tim Foster
Phone No: (978) 495-2366 email: zntnsv@gmail.com
Address: 5805 S Graphite Way Meridian, Idaho 83642-9067
Relationship to permit Holder: Blackrock Subdivision HOA's ASSN Inc. Representative

3. **SOURCE:**
GROUND WATER

Method of Determination: Site visit and Aerial Imagery

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
N/a	N/a	N/a	N/a

Comments: _____

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

Water Right No.	Source	Purpose of Use	Basis
N/a	N/a	N/a	N/a

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER NE¼ SW¼, Sec. 32, Twp 03N, Rge 01E, B.M. ADA County

Method of Determination: (6/2023) GPS at 43° 33' 05.66" N, 116° 21' 58.80 W

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	
03N	01E	32								0.2	15					2.9			18.1

Total Acres: 18.1

Method of Determination: Field photos and aerial photography, as well as GIS support here at Idaho Department of Water Resources (State Office) providing a vegetative layer displaying the beneficial use history utilizing aerial imagery to verify irrigation used on site.

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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
X 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
	Hitachi	25hp		6CLC	

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurements: The buried pump and conveyance system did not provide suitable circumstances to directly measure the diversion rate.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: A 25-hp submersible pump was being used during the time of the field exam. The system was all subsurface and I was unable to get a measurement reading. Pump specifications and performance curve information provided by the applicant were used to estimate flow. Performance curve at maximum performance at 120'-124' total head yields 0.50 cfs capacity.

Theoretical Irrigation Use = 0.50 cfs

Standard Irrigation Rate = 0.36 cfs

Permitted Total Rate 0.50 cfs

License Recommendation total Rate 0.36 cfs

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JUL 05 2023

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) = 18.1 acres x 4.5 AF = 81.5 AF
$V_{D.R}$ = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = 0.36 cfs x 259 days x 1.9835 = 185
V = Smaller of $V_{I.R}$ and $V_{D.R}$ = 81.5 AF

G. NARRATIVE/REMARKS/COMMENTS

A field exam was conducted on 06/15/2023 by Water Resource Agent Clint Lindow and was accompanied by Mr. Tim Foster. Tim Foster is a representative for Blackrock Subdivision Homeowners Assn Inc. The water right permit was issued on July 17th, 2013, and proof of beneficial use was submitted on March 06, 2023.

The point of diversion (POD) location was confirmed at ground water well head in the NESW QQ and is accurately described by the permit. The well uses an underground 25 hp Hitachi motor and Goulds pump to divert water underground, using 4.0" pvc piping, to sprinklers in a residential subdivision landscaping irrigation system. Water right overlap did not discover any other water rights associated with the ground water POD. No amendment required to correct the legal description.

The permit authorizes 0.50 cfs for irrigation use within a permissible place of use (PPU) in the NESW, NWSE, SENW, Sec 32, T03N, R01E. Utilizing GIS support at Idaho Department of Water Resources was able to provide me a historical vegetation layer to determine a more precise breakdown of land being irrigated. Irrigation of 18.1 acres in the PPU was verified using ArcMap tools, aerial imagery, IDWR GIS department supported vegetative layer, and supported by photos taken during the field exam. Field exam findings and supporting data has determined a reduction in acres to 18.1 acres reducing the rate of diversion from 0.50 cfs to 0.36 cfs. No amendment required to correct the legal description of the POU.

The POD motor and pump are buried at unknown depths. Pump and motor information was provided by the applicant's representative, Tim Foster. Using the pump specifications for the 25 hp Hitachi pump with likely discharge pressure of 40-60 psi, 171 ft of head, and assuming 70% efficiency, a theoretical flow rate of 0.50 cfs was calculated which was equal to the permitted rate. The recommended licensed flow rate for irrigation use is 0.36 cfs.

Conditions: Condition 26A, 004, and 046 were removed. Also, the additional verbiage under condition 01M – This right is limited to the irrigation of 25 acres within the authorized place of use in a single irrigation season and Water bearing zone to be appropriated is from 100 to 300 feet – was removed. Updated conditions 065 + 104 to 943 + WB7 and condition 121 to 103.

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

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	
IRRIGATION	03/01 to 11/15	0.36 CFS	

Totals: 0.36 CFS

2. Recommended Amendments

____ 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 ____ None

I. AUTHENTICATION Clint Lindow -

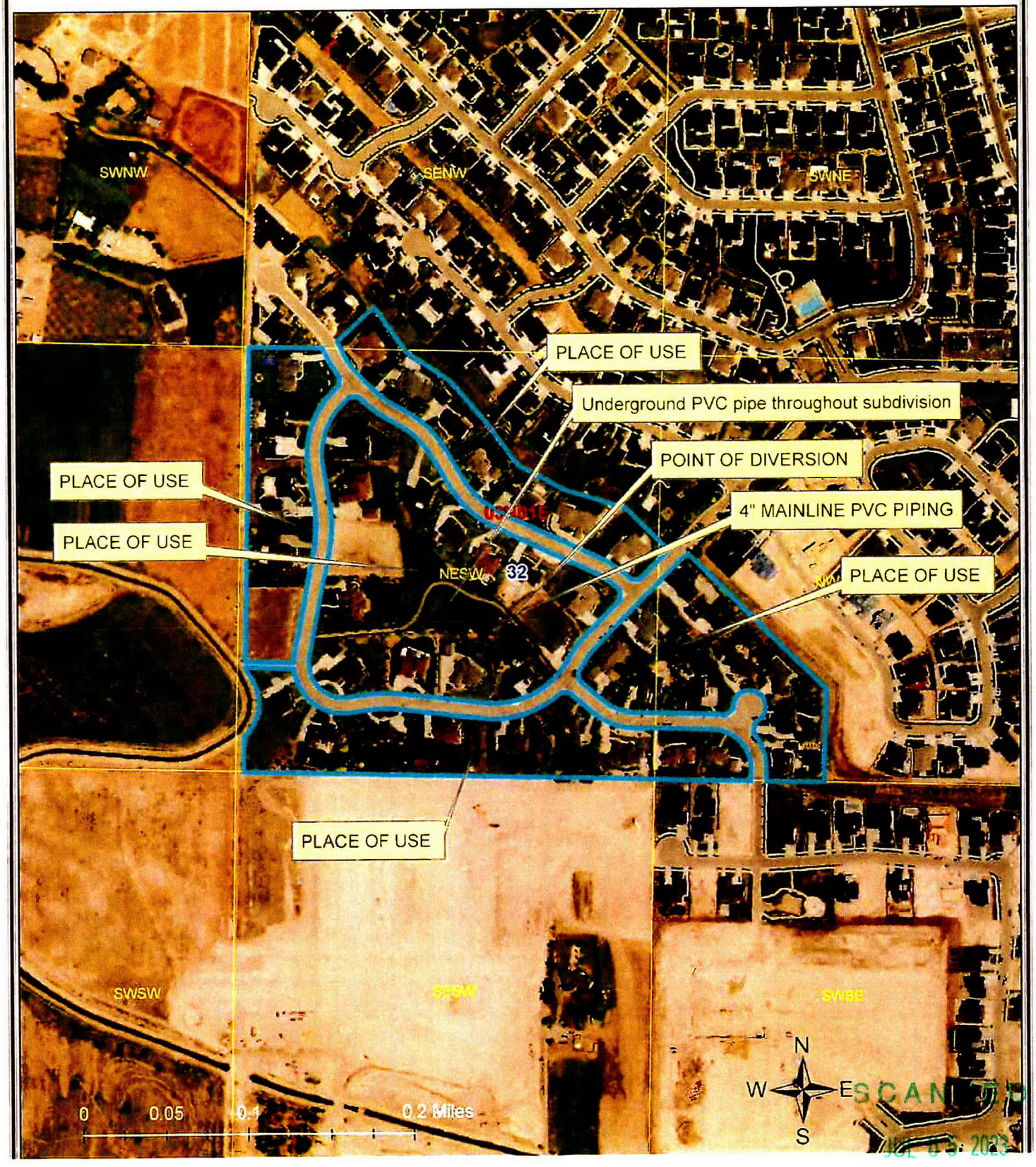
Field Examiner's Name Clint Lindow Date 6-29-2023

Reviewer [redacted] Date 6/29/2023

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JUL 05 2023

DELIVERY SYSTEM DIAGRAM

Water RighT No. 63-33742



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JUL 05 2023

SCANNED
JUL 05 2023

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33742
Reviewer: Clint Lindow
Date of Review: 6/15/2023

P/D No.:	Senerio 1	Senerio 2	Senerio 3	
PUMP HORSEPOWER	23	23	23	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	124.9	124.9	124.9	
DISCHARGE PRESSURE	68.5	70	75	
				AVG
RATE OF FLOW (cfs)	0.50	0.49	0.48	0.49

The above calculates the formula =

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

Assumptions: %70 efficiency.
No Friction

Examiners Notes: **A standard 20-30 psi for sprinkler irrigation use was used.**

PUMPING TEST DATA

SCANNED
JUL 05 2023

SPF WATER ENGINEERING

September 27, 2013

Ron Stevens
Stevens & Sons Well Drilling
3709 Hawthorne Drive
Boise, ID 83703

Subject: Final Design for Blackrock HOA Irrigation Well

Dear Ron:

This letter provides recommended final design for the irrigation well at the Blackrock subdivision. The driller's log is summarized below:

0 – 1 feet	Topsoil
1 – 15 feet	Large boulders and sand
15 – 37 feet	Cemented large gravel and sand
37 – 68 feet	Cemented sand and small gravel
68 –185 feet	Fine sand and some clay streaks
185 – 214 feet	Fine sand with some tan and orange clay
214 – 233 feet	Fine to medium sand
233 – 236 feet	Clay streak
236 – 243 feet	Coarser sand with fines
243 – 253 feet	Coarser sand with less fines
253 – 258 feet	Cemented sand with soft blue clay
258 – 301 feet	Medium coarse to fine sand (white and blue) with less fines

Based on review of driller's log, driller's input, and drill cuttings, the following steps are recommended to complete the well.

1. Ream your 8-inch pilot borehole to final diameter from 0 to 300 feet
2. Install 8-inch steel casing, 0.322-inch wall thickness, from +2 to 40 feet
3. Install 8-inch SDR 17 PVC casing from 40 feet to 260 feet
4. Install 8-inch pipe-size stainless steel well screen, 0.030-inch slot size, from 260 feet to 300 feet
5. Install No. 8-12 Colorado silica sand filter pack from 230 feet to 300 feet
6. Install appropriate surface seal from 0 to 230 feet

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JUL 05 2023

300 E. Mallard Drive, Suite 350, Boise, Idaho 83706 Tel: 208-383-4140 Fax: 208-383-4156

A final design schematic is enclosed. This final design results in a well that is slightly deeper than anticipated in the original design. As a result, the following increases in quantities are anticipated:

Bid Item 2 – Drill Borehole, will increase from 290 feet to 300 feet
Bid Item 3 – F&I 8-inch Steel Casing, will increase from 32 feet to 42 feet
Bid Item 7 – F&I Annular Well Seal, will increase from 220 feet to 230 feet

It is our understanding that the casing, screen, and sand are either on site or readily available, which will allow you to directly complete the well construction once the borehole is reamed to full-diameter. This should allow development to take place as soon as Wednesday, October 2nd and test pumping on October 3rd. SPF will need to be present for the test pumping activity, so please let us know if the schedule changes.

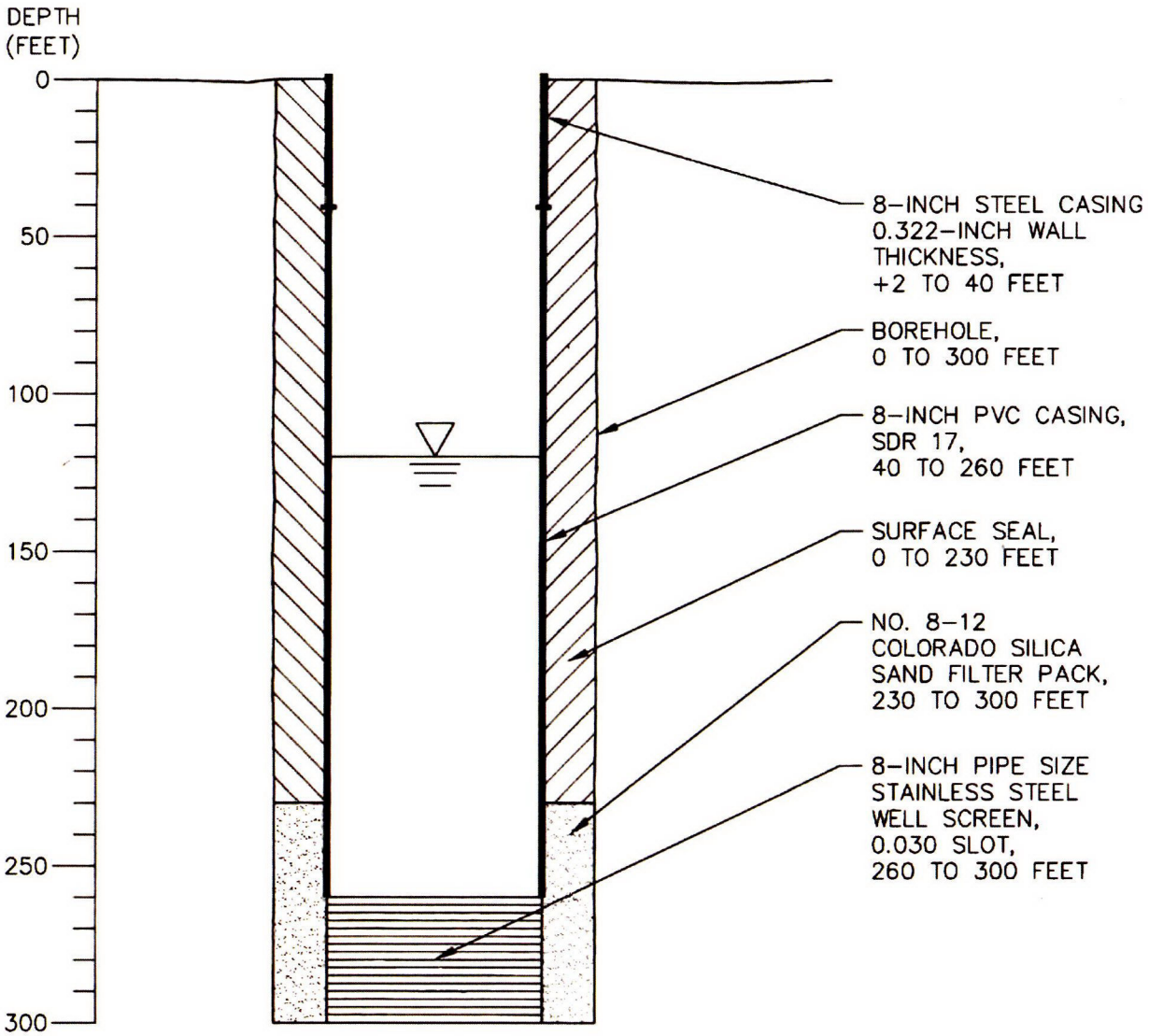
Please contact me with any questions.

Sincerely,

Bob Hardgrove, P.E.

Enclosures Final design schematic

SCANNED
JUL 05 2023



PROFESSIONAL ENGINEER
LICENSED
9/27/13
8616
STATE OF IDAHO
ROBERT ROY HARDGROVE

SPF WATER
ENGINEERING
300 East Mallard Drive, Suite 350
Boise, Idaho 83706
Tel (208) 383-4140 Fax (208) 383-4156

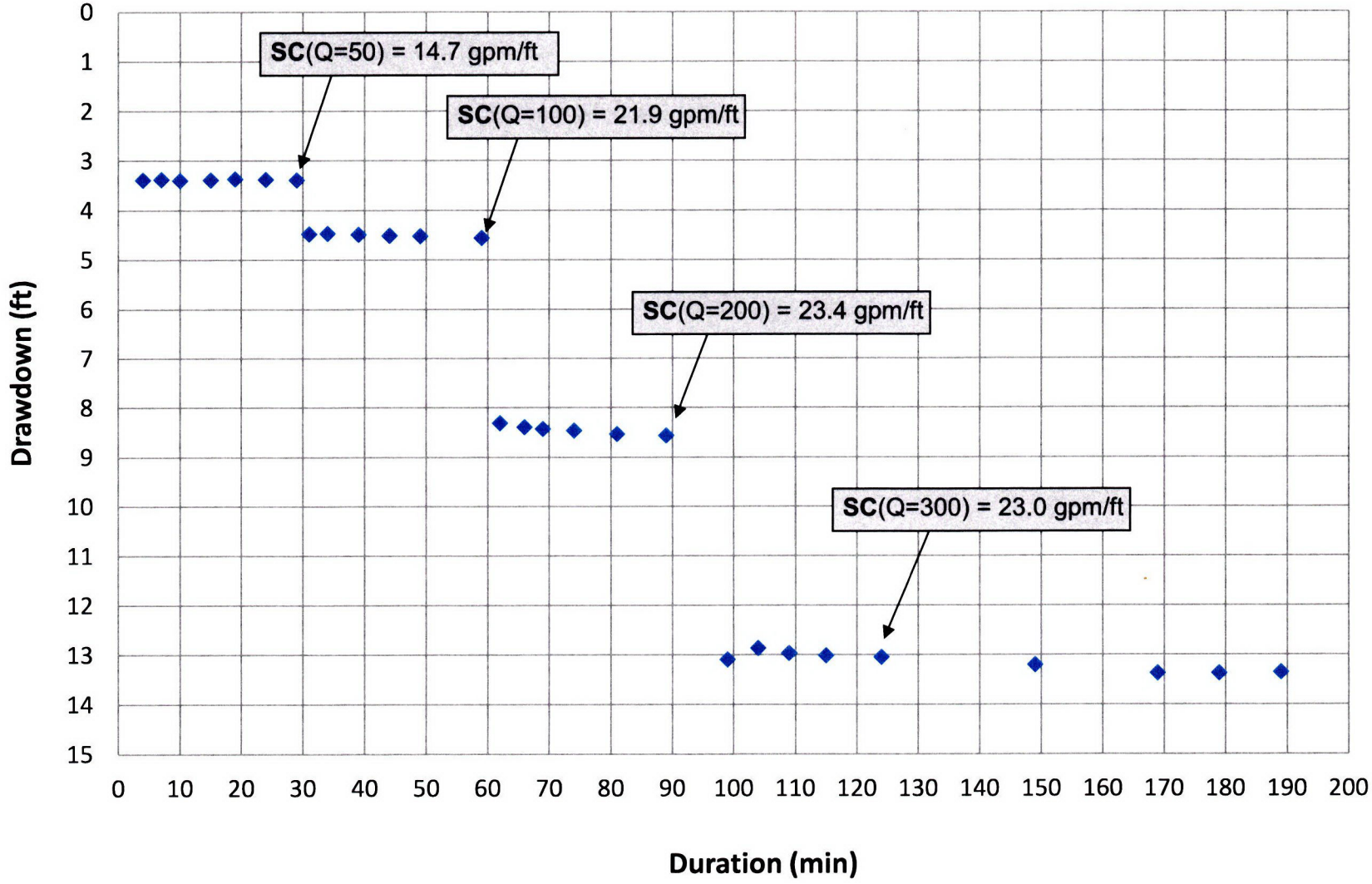
BLACKROCK SUBDIVISION HOA
IRRIGATION WELL FINAL DESIGN

SCALE: NTS
DRAWN BY: SCB
PROJ #999.0020

SCANNED
JUL 05 2023

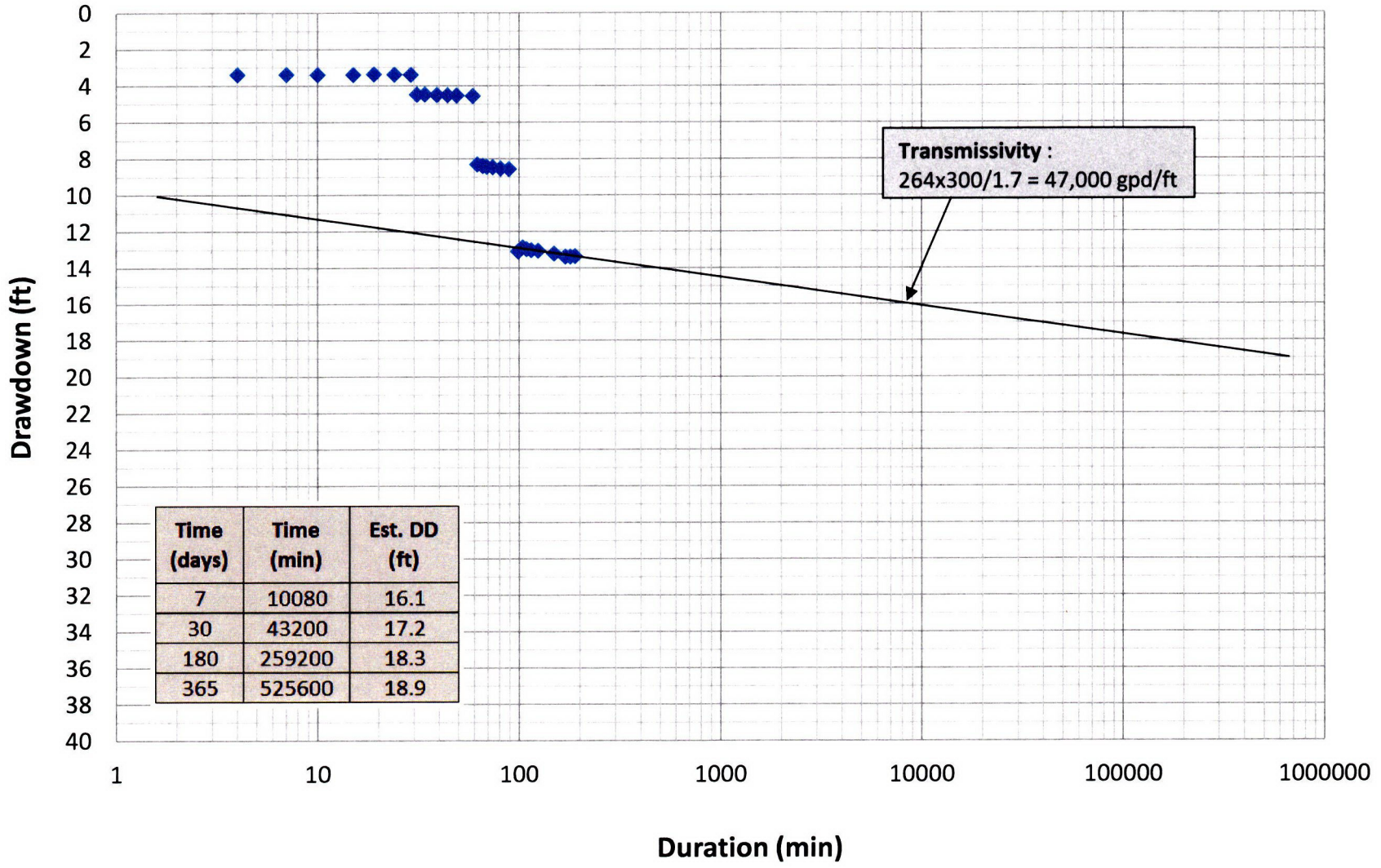
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JUL 05 2023

Blackrock Irrigation Well
Step Pump Test (Q = 50, 100, 200, 300 gpm)
10/15/2013



SCANNED
JUL 05 2023

Blackrock Irrigation Well
Constant Rate Pump Test (Q = 300 gpm)
10/15/2013



Time (days)	Time (min)	Est. DD (ft)
7	10080	16.1
30	43200	17.2
180	259200	18.3
365	525600	18.9

Blackrock Irrigation Well Pump Test
10/15/2013
Erik (SPF), and Kevin (Stevens and Sons)

T = 7 days = 10,080 min; DD = 12.3 feet
T = 30 days = 43,200 min; DD = 12.5 feet
T = 180 days = 259,200 min; DD = 12.8 feet
T = 365 days = 525,600 days; DD = 13.0 feet

T = 264x300/0.44 = 180,000 gpd/ft

SCANNED JUL 05 2023

Date	Time	DateTime	Duration (min)	DTW (ft)	DD (ft)	Q (gpm)	Notes
10/15/2013	8:35	10/15/13 8:35		111.56		0	Static WL, SPF WL300-01 Sounder
10/15/2013	8:46	10/15/13 8:46	0			50	Pump on, Q adj to 50 gpm
10/15/2013	8:49	10/15/13 8:49	3				Rossum on
10/15/2013	8:50	10/15/13 8:50	4	114.95	3.39	50	
10/15/2013	8:53	10/15/13 8:53	7	114.94	3.38	50	
10/15/2013	8:56	10/15/13 8:56	10	114.96	3.4	50	
10/15/2013	9:01	10/15/13 9:01	15	114.95	3.39	50	
10/15/2013	9:05	10/15/13 9:05	19	114.93	3.37	50	
[redacted]/15/2013	9:06	10/15/13 9:06	20				Rossum off; fine sand; (~0.07mL/20min)*528 ≈ 1.8ppm
[redacted]/15/2013	9:10	10/15/13 9:10	24	114.94	3.38	50	
[redacted]/15/2013	9:15	10/15/13 9:15	29	114.95	3.39	50	
10/15/2013	9:16	10/15/13 9:16	30				Adj Q to 100 gpm
10/15/2013	9:17	10/15/13 9:17	31	116.04	4.48	100	Rossum on
10/15/2013	9:20	10/15/13 9:20	34	116.03	4.47	100	
10/15/2013	9:25	10/15/13 9:25	39	116.05	4.49	100	
10/15/2013	9:30	10/15/13 9:30	44	116.07	4.51	100	
10/15/2013	9:35	10/15/13 9:35	49	116.08	4.52	100	
10/15/2013	9:37	10/15/13 9:37	51				Rossum off; fine sand; (~0.01mL/20min)*528 ≈ 0.3ppm
10/15/2013	9:45	10/15/13 9:45	59	116.12	4.56	100	
10/15/2013	9:46	10/15/13 9:46	60			200	Adj Q to 200 gpm
10/15/2013	9:48	10/15/13 9:48	62	119.87	8.31	200	Rossum on
10/15/2013	9:52	10/15/13 9:52	66	119.95	8.39	200	
10/15/2013	9:55	10/15/13 9:55	69	119.99	8.43	200	
10/15/2013	10:00	10/15/13 10:00	74	120.02	8.46	200	
[redacted]/15/2013	10:07	10/15/13 10:07	81	120.09	8.53	200	
[redacted]/15/2013	10:08	10/15/13 10:08	82				Rossum off; fine sand; (~0.03mL/20min)*528 ≈ 0.8ppm
[redacted]/15/2013	10:15	10/15/13 10:15	89	120.12	8.56	200	
10/15/2013	10:16	10/15/13 10:16	90			300	Adj Q to 300 gpm
10/15/2013	10:25	10/15/13 10:25	99	124.65	13.09		had trouble getting sounder past constriction; Rossum on
10/15/2013	10:30	10/15/13 10:30	104	124.42	12.86		
10/15/2013	10:33	10/15/13 10:33	107				water slightly turbid, no odor that I could smell
10/15/2013	10:35	10/15/13 10:35	109	124.52	12.96		
10/15/2013	10:41	10/15/13 10:41	115	124.57	13.01		
10/15/2013	10:45	10/15/13 10:45	119				Rossum off; fine sand; (~0.02mL/20min)*528 ≈ 0.5ppm
10/15/2013	10:50	10/15/13 10:50	124	124.6	13.04		
10/15/2013	11:15	10/15/13 11:15	149	124.76	13.2		
10/15/2013	11:35	10/15/13 11:35	169	124.93	13.37		
10/15/2013	11:45	10/15/13 11:45	179	124.93	13.37		
10/15/2013	11:55	10/15/13 11:55	189	124.91	13.35		
10/15/2013	11:56	10/15/13 11:56	190				Pump shut off; surface water was encroaching infiltration boundary

PUMP CURVE

SCANNED
JUL 05 2023

Model: VIS-BAT	Size: 6CLC	60Hz	RPM: 3450	Stages: 7

Job/Inq.No. :
End User :
Item/Equip.No. : ITEM 001
Order No. :

Purchaser : MITCHELL LEWIS & STAVER
Issued by : Brian Walker
Quotation No. : BW14-05-23 01
Certified By :

Service :
Date : 05/23/2014
Rev. : 0

Operating Conditions

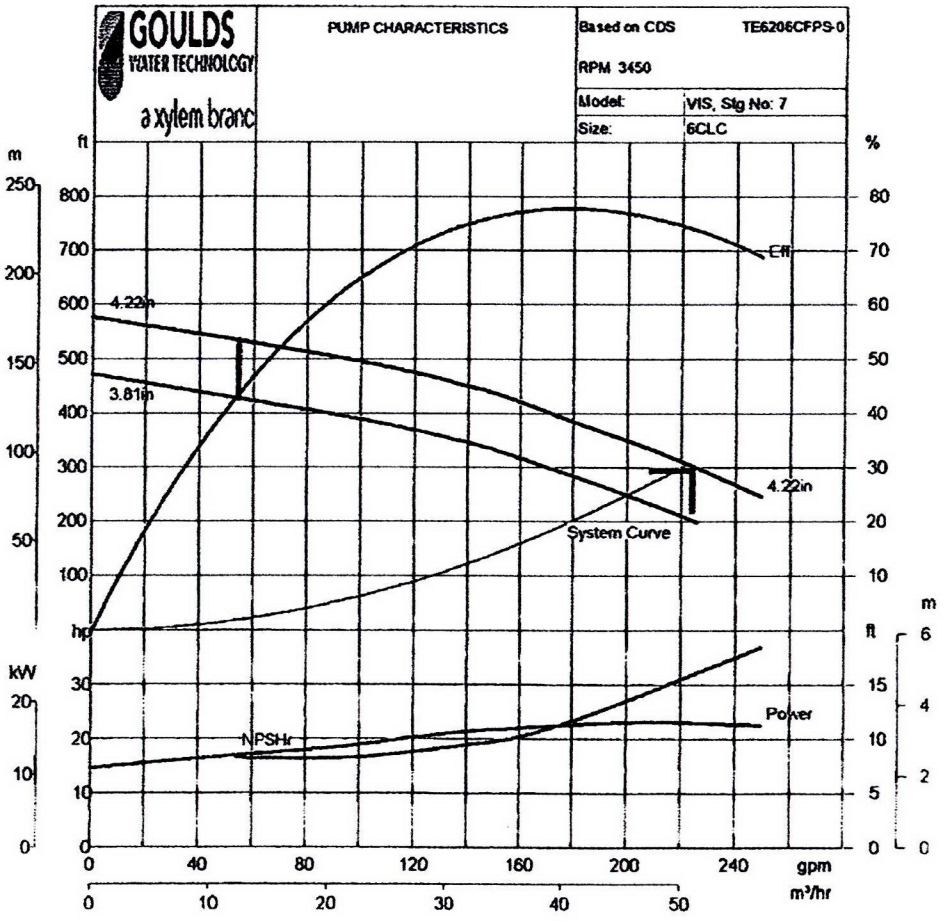
Temp.:	70.0 deg F
Design Flow:	225.0 gpm
Design TDH:	300.0 ft
Actual Flow:	225.0 gpm
Actual Bowl Head:	301.0 ft
NPSHa:	
Solid size:	
Bowl Size:	5.8800 in
Liquid:	
S.G./Visc.:	1.000/1.000 cp

Pump Performance

Bowl Efficiency:		Suction Specific Speed:	7,311 gpm(US) ft
Rated Pump Efficiency:	74.4 %	Min. Hydraulic Flow:	54.4 gpm
Rated Total Power:	23.00 hp	Min. Thermal Flow:	N/A
Non-Overloading Power:	23.2 hp		
Imp. Dia. First 1 Stg(s):	4.2200 in	Imp. Dia. Addt'l Stg(s):	4.2200 in
NPSHr:	16.0 ft	Vapor Press:	
Shut off Head:	576.1 ft	Max. Solids Size:	0.0000 in
Max. Lateral:	0.3800 in	Thrust K factor:	2.10
Bowl Material:	Cast iron with glass enamel		
Impeller Material:	316SS		

Notes: 1. Bowl Performance Curve based on Pumping Clear, non-Aerated Water. Rated Point only is guaranteed.

2. For units requiring performance test, all performance tests will be conducted per ANSI/HI 14.6 standards unless otherwise noted in the selection software submittal documents. Test results meeting with grade 2B tolerances for pumps with a rated shaft power of 134HP or less and grade 1B for greater than 134HP will be considered passing.



xylem
Let's Solve Water

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JUL 05 2023

SPF WATER ENGINEERING

June 16, 2014

Tim Foster
Blackrock Subdivision Homeowners Association
5805 S. Graphite Way
Meridian, ID 83642

Subject: Blackrock HOA Irrigation Well – Project Completion Summary

Dear Tim:

The well and well pump for the Blackrock Subdivision Homeowners Association (HOA) have been successfully constructed and tested. The well and well pump designs are described in this letter and associated attachments are included for your review and future reference.

Existing Surface Water Supply Details

The well was constructed to supplement the HOA's existing surface water supply. The HOA's surface water supply is fed from a Boise Kuna Irrigation District (BKID) lateral located east of the subdivision. The HOA has 159.25 acre-feet of water available during a normal irrigation season. The HOA has historically requested delivery of 20 to 25 miner's inches (180 to 224 gpm) from BKID to their pump station. This historical delivery rate will utilize the available annual volume in an average length irrigation season of approximately 170 days.

The surface water pump station was constructed within a Stor-Mor shed-style building and provided by Precision Pumping Systems (PPS) when the subdivision was constructed. The HOA has PPS under an annual maintenance agreement for the surface water system. Per the original construction drawings, the existing system has a 40 horsepower (hp) pump capable of 500 gallons per minute (gpm) at 220 feet of head and a 5 hp jockey pump capable of 50 gpm at 220 feet of head. The pumps are controlled with variable frequency drives and are set to maintain a discharge pressure of 90 psi (recently increased from 80 psi). The pump station has a Clemons Clearwater screen (CW1100 18 mesh) on the pump intake and an Amiad 6-inch SAF3000 self-cleaning pressure filter on the pump discharge.

Initial Well Construction Details

The well was drilled by Stevens and Sons Drilling. Well construction began September 20, 2013, and ended on October 7, 2013. Well development and test pumping activities were completed on October 15, 2013. The well was constructed by drilling a pilot borehole to 301 feet and then reaming the well to the full diameter to a depth of 300 feet. Based on analysis of the drill cuttings and the driller's log, the well was completed with 8-inch diameter steel

300 E. Mallard Drive, Suite 350, Boise, Idaho 83706 Tel: 208-383-4140 Fax: 208-383-4156

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JUL 05 2023

casing to a depth of 40 feet, 8-inch diameter SDR 17 Certa-Lok PVC casing to 260 feet, and 8-inch diameter 0.030-inch slot stainless steel well screen from 260 to 300 feet. The filter pack consisted of No. 8-12 Colorado Silica Sand placed between 230 and 300 feet.

The annular space between the 8-inch casing and the nominal borehole was sealed with cement-bentonite grout from 230 to 20 feet and bentonite chips from 20 feet to the surface.

The well was developed initially with a bailer and finished by surging using the test pump. Development occurred until the water produced from the well was clear with negligible sand production. The final well design memorandum and well driller's report are attached.

Pumping Test Results

A pumping test was conducted on October 15, 2013 to determine the capacity of the well. Stevens and Sons provided the test pump, submersible motor, and diesel generator. SPF supervised test pumping and measured water levels and sand production.

The discharge rate was measured with a flow meter supplied by Stevens and Sons. Water levels were measured with an electric-line well sounder. The water was discharged into the common area adjacent to the well.

The pumping test included a step-rate test consisting of four pumping rates (50, 100, 200 and 300 gpm) at approximately 30 minute intervals. The 300 gpm rate was pumped for a total of 100 minutes. The test was stopped after a total duration of 3 hours and 10 minutes, due to the flooding of the common area. Water-level measurements were not recorded for static water level recovery after the pump was shut off.

The static water level prior to pumping was 111.56 feet below the top of well casing. The pumping water level at the end of the test was 124.91 feet below the measuring point. Total drawdown was 13.35 feet below the static water level, for an end-of-test specific capacity of 23.0 gpm/ft. Pumping test data and graphs are provided as an attachment.

Sand production was measured for each of the four steps of the pump test using a Rossum sand tester. Very small amounts of fine sand were measured, but the amount of sand was not appreciable. The conductivity, specific conductivity, and temperature of the water were not measured.

Test results indicate that well is very productive and meets the desired production requirements. The data indicate the well will produce the 225 gpm from a pumping water level ranging between 120 and 124 feet, depending on duration of pumping.

Repaired Well Details

During the installation of the well pump, the pump was dropped down the well. The pump contractor retrieved the well and installed it without notifying the engineer the pump had hit the bottom of the well and without running a video log of the well to determine if any damage was done to the well. The pump was started on March 13, 2014 and immediately clogged up with formation material and sand filter pack.

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The pump was pulled out of the well and a video log was performed down the well. This initial video did not reveal there was any damage to the well. The bottom of the well was filled with approximately 28 feet of sediment. It was assumed that the bottom plate on the well had been damaged due to the weight of the pump and drop pipe. When the pump started, it pulled sediment into the well casing through the damaged bottom plate.

The pump contractor (Dan's Pump and Filter) hired Stevens and Sons to repair the well. Based on the fact no damage was apparent with the well video, Stevens and Sons moved forward with repairing the plate at the bottom of the screen. On March 31, 2014, they bailed out material and tremied in a cement plug at a depth of approximately 295 feet (five feet above the bottom of the screen). The next day after the cement hardened, they attempted to bail out more material and determined sediment was still entering the well at a higher location.

The well was videoed again in an attempt to find the break. The second well video revealed the PVC coupling/adapter between the top of the stainless steel screen and the bottom of the PVC casing was in fact broken.

On April 3, 2014, Stevens and Sons installed 40 feet of 5-inch, 0.035-inch slot stainless steel well screen and 20 feet of 5-inch steel head pipe. Approximately 60 feet of No. 6-9 Colorado Silica Sand was placed in between the 8-inch screen/casing and the 5-inch screen and head pipe. The 5-inch was sealed to the inside of the 8-inch PVC casing with a 5" x 8" figure K slip packer. A supplemental well driller's report is attached for the additional well repair work.

On April 5, 2014, Dan's Pump and Filter set the pump and cleaned the well by surging the well screens by starting/stopping the pump and running the pump. This was done until the well only produced clear water while running and during start-up.

Well Pump Construction Details

Dan Byler from Dan's Pump and Filter installed the pitless adapter, the well pump, subsurface discharge piping and appurtenances, and the pump control panel. A 25-hp submersible Goulds Model 6CLC 180 gpm pump was used. The pump curve is attached to this letter. A 3-inch by 4-inch bushing was used to transition between the pitless adapter and the 8 sticks of 21-foot long, 4-inch diameter drop pipe. The top of the pump was set at approximately 171 feet below ground surface.

The 25-hp 6CLC pump is rated to produce 225 gpm at 300 feet TDH. The pump is powered with a Hitachi motor and controlled with an ABB VFD. The VFD is installed within a PPS control panel. The pump starts and stops off of system pressure, with a set-point below the surface water system. The VFD varies the motor speed in order to maintain a minimum pressure in the system. This configuration allows the surface water to be used as the primary source and the groundwater to be used as a supplemental source. During the shoulder seasons, the well pump will be the only source of supply. The PPS panel is equipped with a pre-programmed pressure set-point for the shoulder season and a pre-programmed pressure set-point when the surface water pump is running.

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JUL 05 2023

The pumping system was successfully started-up on April 28, 2014. There were a few punchilst items noted during start-up that were completed by Dan's Pump and Filter, prior to the HOA making final payment to them.

Dan's Pump and Filter provided an extended labor warranty for the scope of work they provided. This extends the warranty from one year to two years. The warranty letter, operation and maintenance information for the PPS control panel, motor, and pump are being transmitted to the HOA as a separate documents. This SPF letter, attachments, and the separate O&M information should be kept on file by the HOA for future reference.

Please contact me at your convenience with any questions.

Sincerely,

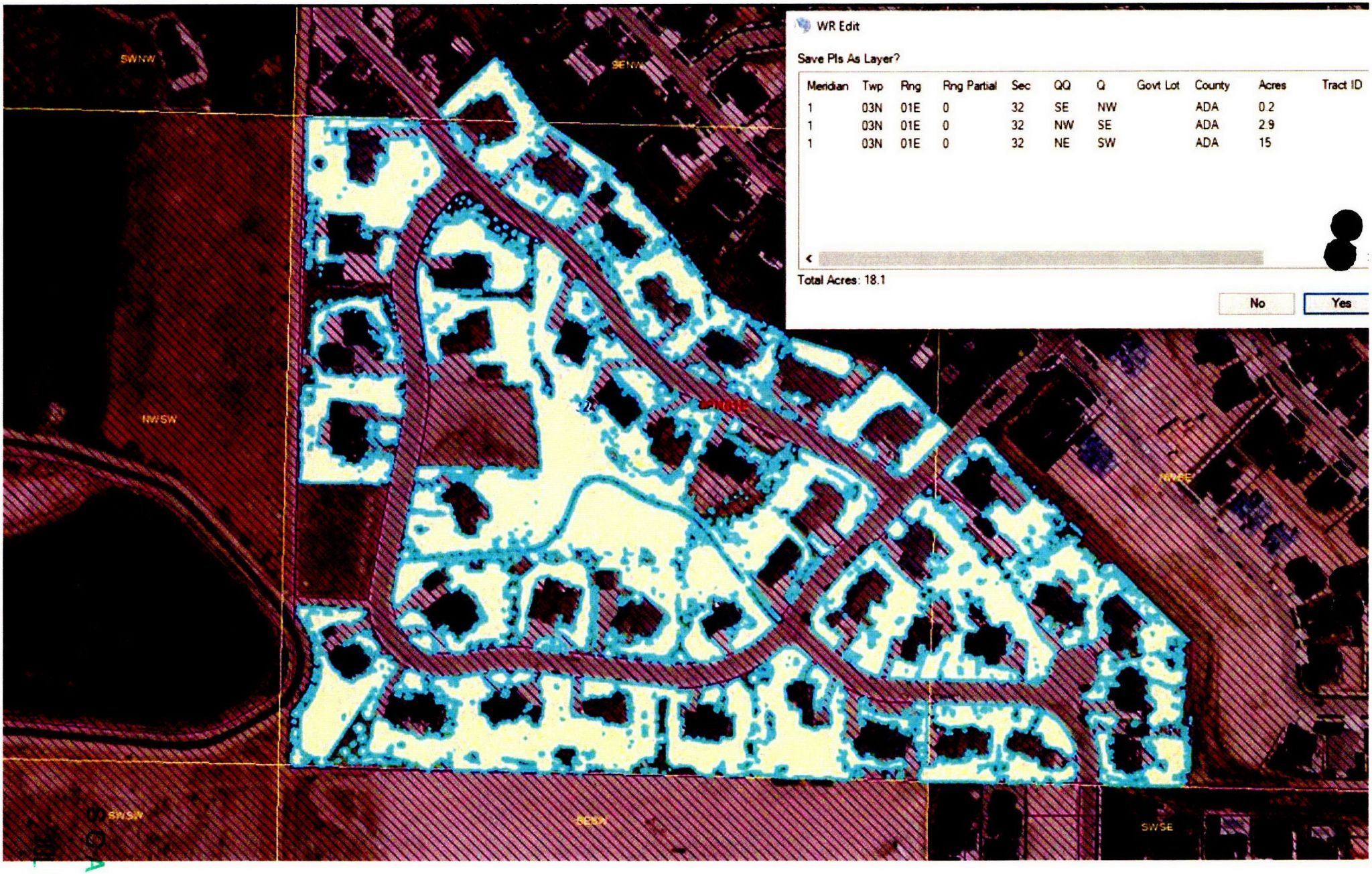
Bob Hardgrove, P.E.



Cc: Annette Alonso (via e-mail)
David Koga (via e-mail)
SPF File No. 999.0020

Attachments: Final Well Design Memo
Well Driller's Report
Pumping Test Data
Supplemental Well Driller's Report
Pump Curve

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JUL 05 2023



SCANNED
DEC 05 2023

(a3

Form 238-7
6/07

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0064686
Drilling Permit No. 963674-869733
Water right or injection well # 63-33742

2. OWNER:
Name Blackrock Subdivision HOA
Address 2204 E. Hyper Dr.
City Meridian State Id. Zip 83642

3.WELL LOCATION:
Twp. 3 North ☒ or South ☐ Rge. 1 East ☒ or West ☐
Sec. 32 ____ 1/4 (10 acres) N.W. 1/4 (40 acres) S.W. 1/4 (160 acres)
Gov't Lot ____ County Ada
Lat. 43 ° 33.095 (Deg. and Decimal minutes)
Long. 116 ° 21.980 (Deg. and Decimal minutes)
Address of Well Site S. Graphite Way
(Give at least name of road + Distance to Road or Landmark) City Meridian
Lot. 5 Blk. 2 Sub. Name Blackrock Subdivision No. 1

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 ft³)	Placement method/procedure
cement	296'	295'		plug is in 8" screen

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/ Schedule	Material	Casing	Liner	Threaded	Welded
5"	234	254	.258	Steel	☐	☒	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

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

9. PERFORATIONS/SCREENS:
Perforations ☐ Y ☒ N Method ____
Manufactured screen ☒ Y ☐ N Type Johnson Vee Wire
Method of installation ____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
254	294	.35	40'	5"	stainless	

Length of Headpipe 20' Length of Tailpipe 0'
Packer ☒ Y ☐ N Type 5"x8" figure K slip packer 6" pipe is 4' lo

10.FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method
6-9 sand	234'	294'	10 cubic feet	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) ____ Static water level (ft) ____
Water temp. (°F) ____ Bottom hole temp. (°F) ____
Describe access port ____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)

Test method: Pump ☐ ☐ Bailer ☐ ☐ 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	Water N

RECEIVED
APR 04 2014
WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 294'
Date Started: Apr 1, 2014 Date Completed: Apr 3, 2014

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 Stevens & Sons Co. No. 153
*Principal Driller ____ Date Apr 4, 2014
*Driller ____ Date Apr 4, 2014
*Operator II ____ Date ____
Operator I ____ Date ____

*** Signature of Principal Driller and rig operator are required.**

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JUL 05 2023



Fig. 1 – Location of Well. Facing south. GPS'd at:

43° 33' 05.66 N

116° 21' 58.80 W



Fig. 2 – Picture of system - Measuring device in picture is not operable.. 4" Mainline PVC Pipe.

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JUL 0 5 2023



Fig. 3 – Location of system PSI settings – Main NESW QQ. GPS'd at:

43° 33' 05.66 N

116° 21' 58.80 W



Fig. 4 – Location of system PSI settings – Canal NESW QQ. GPS'd at:

43° 33' 05.66 N

116° 21' 58.80 W

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JUL 05 2023

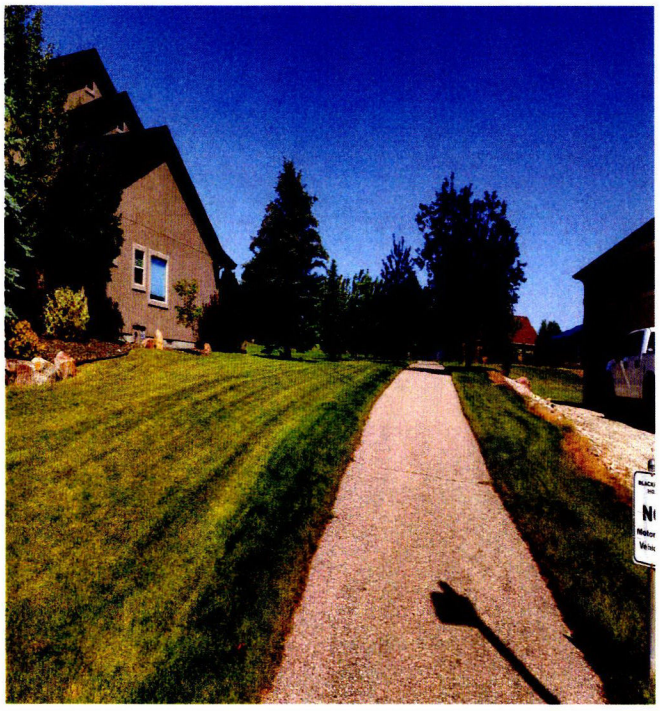


Fig. 5 – On path walking toward POD of E. Taconic Dr. NESW QQ . Facing NW.

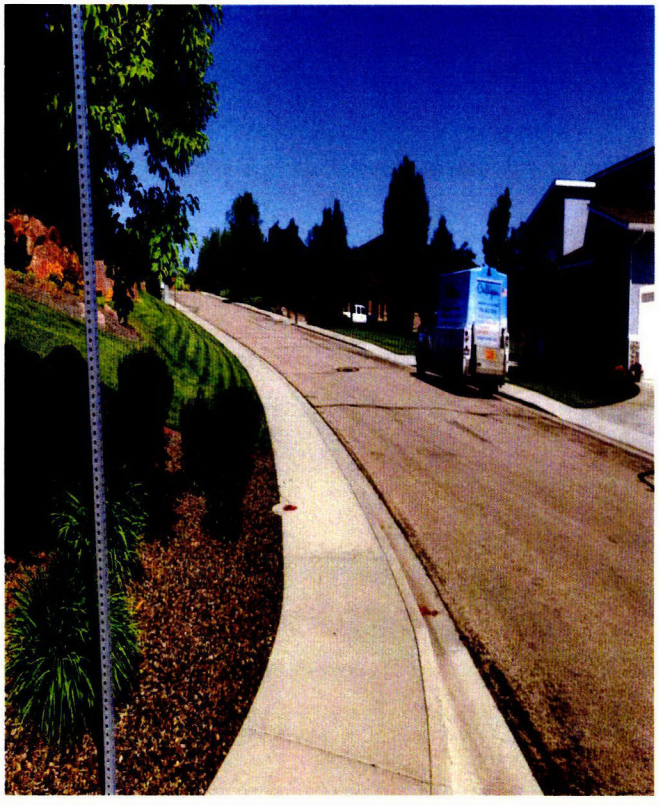


Fig. 6 –Irrigated areas on E. Hyper dr. NESW QQ. Facing NW

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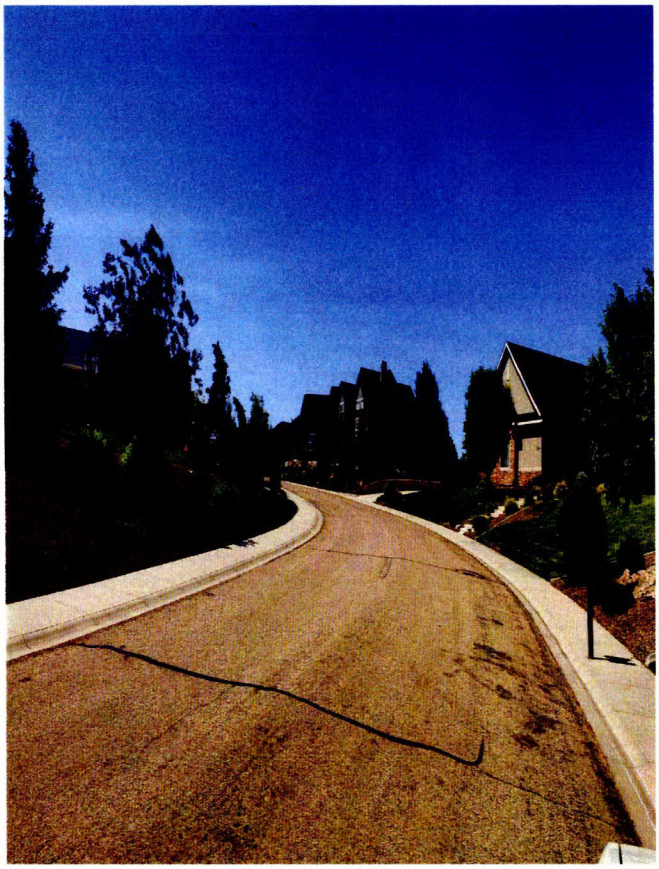


Fig. 7 – Picture of irrigated neighborhood on S. Graphite Way NESW QQ. Facing south.

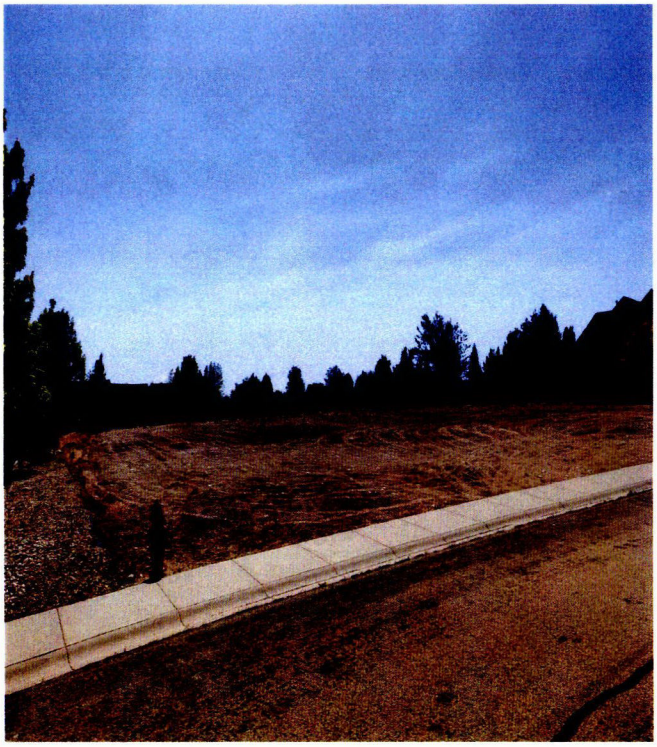


Fig. 8 – Undeveloped land that will be excluded from license NESW QQ . Facing east.

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JUL 05 2023

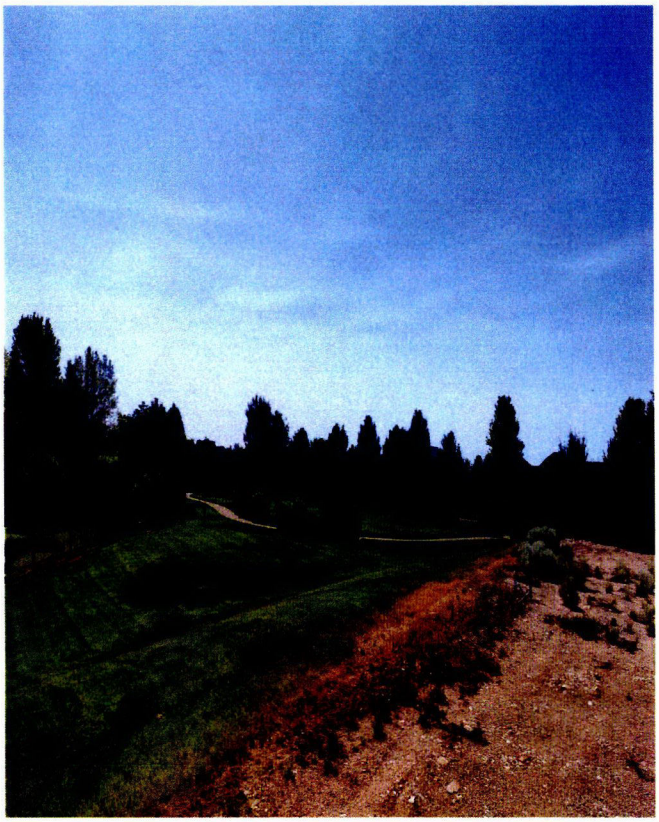


Fig. 9 – Picture from undeveloped lot picture of common area NESW QQ. Facing SE.



Fig. 10 – Picture of undeveloped lot which will be excluded from licensing NESW QQ. Facing southwest.

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JUL 05 2023

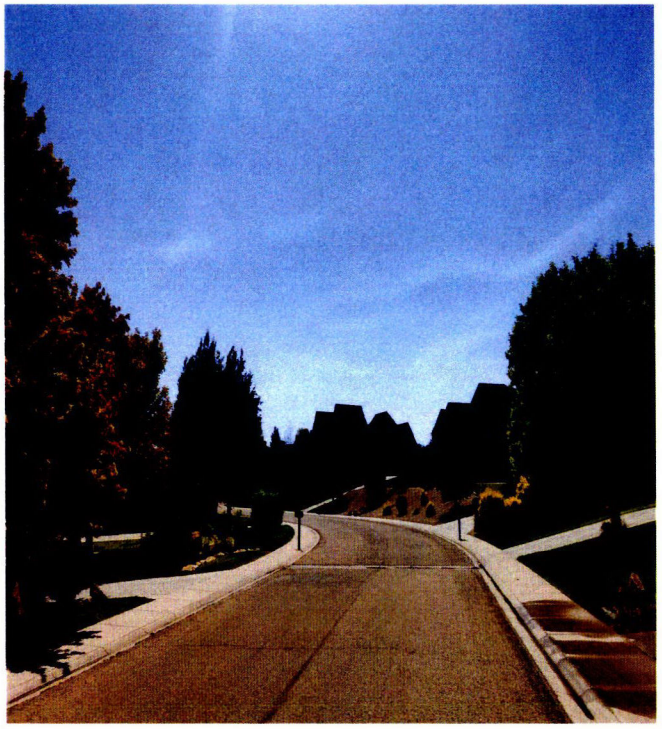


Fig. 11 – Picture of neighborhood NESW QQ. Facing East.

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JUL 05 2023

IDAHO DEPARTMENT OF
WATER RESOURCES

322 E Front Street, Suite 648, Boise ID 83702 • PO Box 83720, Boise ID 83720-0098
Phone: 208-287-4800 • Fax: 208-287-6700 • Email: idwrinfo@idwr.idaho.gov • Website: idwr.idaho.gov

Governor Brad Little **Director Gary Spackman**

March 10, 2023

BLACKROCK SUBDIVISION HOMEOWNERS ASSN INC
5805 S GRAPHITE WAY
MERIDIAN ID 83642-9067

PROOF ACKNOWLEDGEMENT LETTER

RE: Permit No. 63-33742

Dear Permit Holder:

The Department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The next step in the process of developing a water right is for the Department to conduct a field examination to determine and confirm the use being made of the water.

Please be advised that Idaho Code § 42-248, requires you or the owner of this water right to maintain current ownership and address records on file with the Department. Forms to file a change of ownership of a water right and/or a change in the address of the water right owner are available from any Department office or at the Department's website at www.idwr.idaho.gov.

If you have any questions concerning the field examination, please contact the Western Region Office of the Department located in Boise at (208) 334-2190.

Sincerely,

Debbi Judd
Technical Records Specialist

Enclosures

c: HDR INC – via email

SCANNED
MAR 13 2023

Beneficial Use Proof Evaluation

Permit Number: 63-33742 Reviewer: djudd Review Date: 3/7/2023

Acceptability

1) Is the contact on the request the current permit holder? Yes
2) Does the address of record need to be updated? No
3) Proof Submitted Date: 3/6/2023
4) Proof Due Date: 5/1/2023
5) Days added for weekend due date? 0
6) Days added for holiday due date? 0
7) Number of days late: -56
8) Proof received timely? Yes

Analysis

1) Are the water uses correct? Yes
2) Are one of the following items required?
    a. Measuring Device -- No
    b. Lockable Device --No
    c. Fish Screen -- No
3) Are the required items installed?
    a. Measuring Device --
    b. Lockable Device --
    c. Fish Screen --
4) Is there a request to waive the required items?
5) Drilling Permit Number: 869733
6) Is a drilling permit upgrade needed? No
7) Was a well drillers report filed? Yes
8) Is proof accepted? Yes

Fees

1) Is a licensing exam fee required? Yes
2) Was proof submitted with an exam report from a CWE? No
3) Filing fee due: $100.00
4) Filing fee submitted: $100.00
5) Remaining fee or (refund): $0.00

Receipt IDs

W040847

Comments

Proof acknowledged.

IDAHO DEPARTMENT OF
WATER RESOURCES

322 E Front Street, Suite 648, Boise ID 83702 • PO Box 83720, Boise ID 83720-0098
Phone: 208-287-4800 • Fax: 208-287-6700 • Email: idwrinfo@idwr.idaho.gov • Website: idwr.idaho.gov

Governor Brad Little **Director Gary Spackman**

February 28, 2023

BLACKROCK SUBDIVISION HOMEOWNERS ASSN INC
5805 S GRAPHITE WAY
MERIDIAN ID 83642-9067

NOTICE: STATEMENT OF COMPLETION DUE

RE: Permit No. 63-33742

IMPORTANT: A response from you is required to maintain the active status of the referenced water right permit. If no response is received from you, the permit will lapse and your authorization to develop and/or use this water right will be cancelled.

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before **May 01, 2023**. Please complete and return the enclosed Statement of Completion for Submitting Proof of Beneficial Use (proof) if you have completed the water project authorized by your permit. The proof statement must be accompanied by either the appropriate license examination fee or a field examination report prepared by a certified water right examiner.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Idaho Code § 42-204. If you have been delayed by a government agency or by litigation that brings title to the water in question, an extension of time may be granted if appropriate documentation is provided at the time of filing. An extension request must be accompanied by a $50.00 filing fee and signed by the appropriate authorized permit holder(s) or authorized representative with a power of attorney.

Either an acceptable proof or an acceptable extension request must be received by this Department on or before the above proof due date. If neither is received, the Department will send you a lapse notice and the permit will no longer be of any force or effect.

Sincerely,

Debbi Judd
Technical Records Specialist

Enclosures

c: HDR INC – *via email*

CERTIFIED MAIL
7016 1370 0000 2018 4370
NO

SCANNED
MAR 0 1 2023