

* MAIL COPY OF INT. WELL PERMIT
~~MAILED~~
 STATE OF IDAHO
 DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 163-312181. Owner ROBERT & CHERYL NECOCHEA Phone No. (208) 392-6772Current address 53 SETTLERS RD BOISE ID 837162. Examiner's name ANGIE GRIMM EXAM DATE 7/2/20133. Accompanied by BURB: CHERYL NECOCHEA Email _____Address SMERelationship to permit holder SAME Phone No. _____4. Source GIN tributary to BOISE RIVER**B. OVERLAP REVIEW**

* BASED ON NORMAN YOUNG LTR 5/4/02 WELL TOWN WATER DEEPER THAN 100 FT. LIKELY DIVERT ABOVE 200 FT = TRB TO RIVER = MITIGATION IN PLACE.

1. Other water rights with the same place of use NONE2. Other water rights with the same source and point of diversion NONE**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
			NE	SE	32	5N	4E		8" WELL GPS PT 183 N 43° 43.614' W 115° 59.825'
			SE	NE	32	5N	4E		10" WELL GPS PT 184 N 43° 43.625' W 115° 59.871'

2. Place(s) of Use:

Method of determination AERIAL PHOTO & FIELD VERIFICATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5N	4E	32				1.7									0.3				2.0
5N	4E	32				D									D				-
5N	4E	32				H									H				-
5N	4E	32				508'													-

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.

Scale: 1" = _____

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☐ Aerial photo attached (required for irrigation of 10+ acres)
☐ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Model Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A # D0012412 A WELL	FRANKLIN	5	MODEL 2821189310	GOULDS	MODEL 3065 - 2 IN DISCHARGE
	FRANKLIN	2	2823013310		" " "
D0001385	?	5	?	?	?

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: _____

E. NARRATIVE/REMARKS/COMMENTS

POWER METER 8" WELL #75356239

slk deck, etc.

Fire Protection + local fire dept pumped from

2 Heat pumps - all water down injection well/
in well. Force air furnace man house + guest wing
bonus wing above garage.

No meters visible. Indicated they'd look into
getting re-installed.

Furnaces - Winter Heating & Cooling - UNIT RUN W/ WATER FROM 6" WELL
DISCHARGE TO 8" WELL

Water from 8" well down water fall then "creek" then
collection ponds to lake. A line from well exits from 8" well.

Don't know how deep lake is. Covers ~2 acres.
(~10 ft avg depth)

@ least 10 ft deep not sure exactly how deep.
LAKE ~1.8 AC + 2 small PONDOS ~0.1 EACH = ~2 AC
Avg depth lake 10 ft = $2 \times 10 = 20 \text{ AF}$

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☐ Yes ☒ No If no, what must be done to meet the permit requirements?

⇒ @ ONE TIME FLOW METERS INSTALLED... NOT VISIBLE / UNKNOWN IF STILL
IN PLACE.

⇒ IN C. 100 ft NO INB, COMPRISED PER NY, LTR.

⇒ MITIGATION WR. NEED TO CLIMB OWNERSHIP, GET DOC. MAHONEY TO RECOVER

⇒ 2 HOMES = OWNER'S RESIDENCE + ATTACHED GUEST QUARTERS (OWNER PLUMBING +
HEATING UNIT).

RECOMMENDATION - 0.10 CFS DIVISION / 6" WELL OWNER 2 FT. 0.05 CFS + HP CW. 0.12 CFS REC. 0.08 CFS
 0.04 CFS HEATING / 6" WELL PUMP TEST 0.09 CFS HP EQ. 0.10 CFS REC. PERMITTED 0.06 CFS
 0.06 CFS DIV TO STORAGE = 0.10 CFS / 0.14 CFS x 100 = 71% LIMIT 0.10 CFS ONLY DIV TO STORAGE FC
 0.14 CFS DIV TO STORAGE = 0.10 CFS / 0.14 CFS x 100 = 71% LIMIT 0.10 CFS ONLY DIV TO STORAGE FC
 RATE REQ. DOM = 2 HOMES EST. 0.04 CFS. HEATING = REQ. ? NEED SPEC ON UNIT. 8" WELL

Form 219 07/11

F. FLOW CALCULATIONS

☐ Additional computation sheets attached

Measured Method:

HP EQ 8" WELL (122) = $\frac{7 \text{ HP} \times 8.8 \times 0.7}{(60 \text{ PSI})(2.31) + 294 \text{ FT}} = \frac{43.12}{432.6} = 0.10 \text{ CFS} \star$

PUMP CURVE 5 HP PUMP ONLY = 0.07 CFS

PUMP TEST = 40 GPM = 0.09 CFS

HP EQ 6" WELL (DOM + HEATING) = $\frac{5 \text{ HP} \times 8.8 \times 0.7}{(40 \text{ PSI} \times 2.31) + 175 \text{ FT}} = \frac{30.8}{108.7} = 0.28 \text{ CFS} \star$
 z = STATIC LEVEL = 33 FT. EST 10 ft below static small system
 HOWEVER due to lithology in area more likely pump depth in well (similar to 8" well) w/in screened interval EST. 10 ft below highest screen (105 ft)
 z = 175 FT
 OWNER EST. TEST MATH DOC = 35 GPM = 0.08 CFS

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \text{ AC} \times 3.5 \text{ A/AC} = 7.0 \text{ AFA}$

$V_{DR} = [\text{Diversión Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.06 \text{ CFS} \times 2410 \times 1.9835 = 29.3 \text{ AFA}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 7.0 \text{ AFA} < 29.3 \text{ AFA}$

2. Volume Calculations for Other Uses:

DOM = 2 HOMES INTERNAL ONLY = $2 \times 0.6 \text{ AFA/HOME} = 1.2 \text{ AFA}$ vs $0.04 \text{ CFS} \times 365 \times 1.9835 = 29.0 \text{ AFA}$

HEATING = $0.04 \text{ CFS} \times 365 \times 1.9835 = 29.0 \text{ AFA} = \text{ND}$

$V_R = \text{RATE} \times \# \text{ HRS RUNS} =$

POND VOLUME: $V = A \times D = 2.0 \text{ AC} \times 10 \text{ FT} = 20 \text{ AFA}$

CONSUMPTIVE USE (EVAP, SEEPAGE, ETC.) MITIGATED, NOT ACCOUNTED FOR HERE. VOL & POND CAPACITY

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
DOM	1/1	12/31	0.04 CFS	1.2 AFA
HEATING	1/1	12/31	0.04 CFS (IF REC. RATE THIS HIGH)	V_{IR}
IR	3/15	11/15	0.06 CFS	7.0 AFA
DIV TO STORAGE	1/1	12/31	0.10 CFS	N/A
STORAGE	1/1	12/31	N/A	20 AFA
Totals:			0.18 CFS	

8" WELL MAX 0.10 CFS < 122 0.06 CFS
 6" WELL MAX 0.12 CFS BUT USE (DOM + HEATING) 0.08 CFS
 DIV TO STORAGE 0.10 CFS CAPACITY

2. Recommended Amendments

- ☒ Change P.D. as reflected on page 1 ☐ Add P.D. as reflected on page 1 ☐ None
☒ Change P.U. as reflected on page 1 ☐ Add P.U. as reflected on page 1 ☐ Other

I. AUTHENTICATION

Field Examiner's Signature [Signature] Date _____

SEAL

Reviewer _____ Date _____



SENE

SWNW

33

32

05N04E

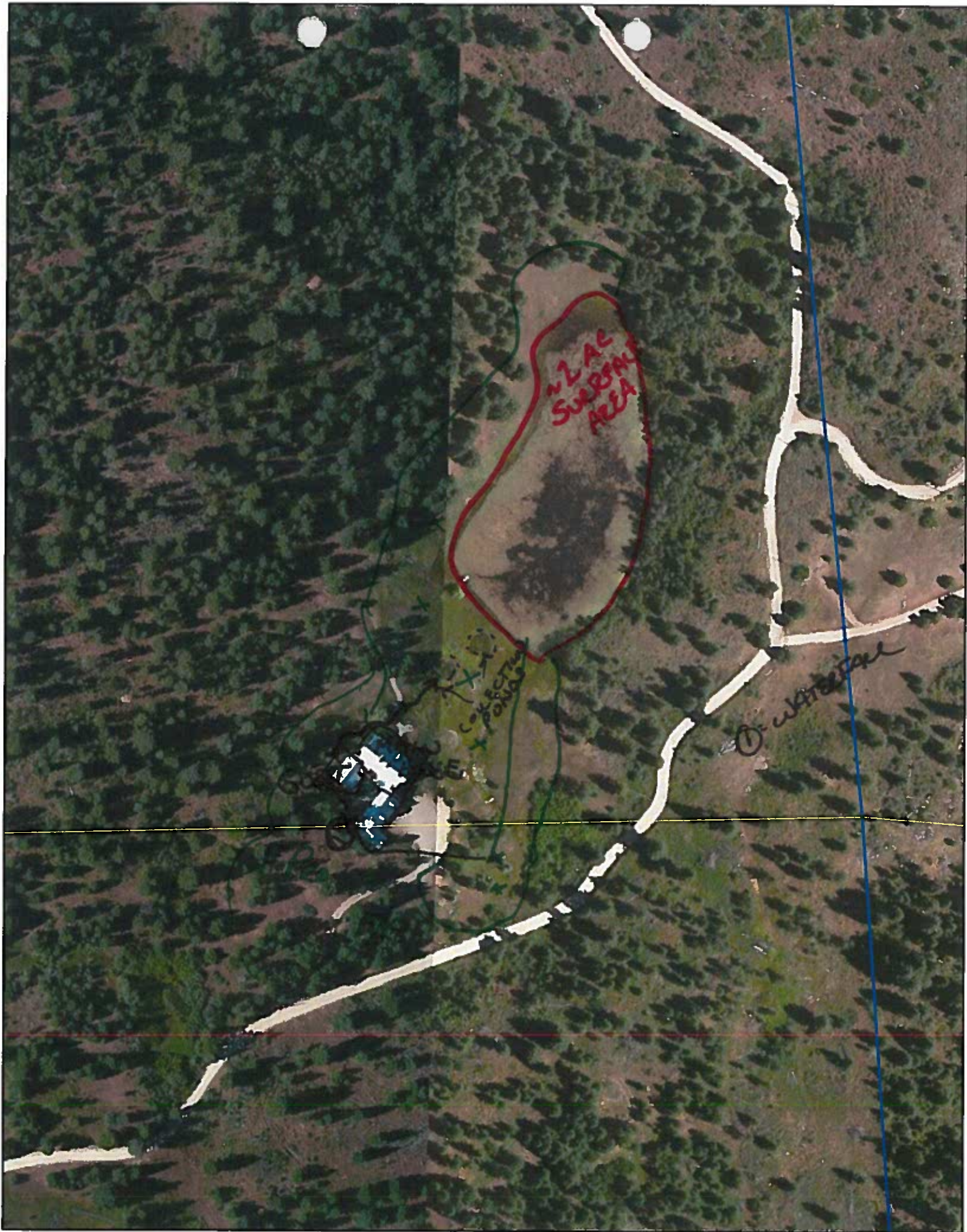
BOISE

-115 59.876, 43 43.625

-115 59.825, 43 43.614

NESE

NWSW





State of Idaho

DEPARTMENT OF WATER RESOURCES

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June 17, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

ROBERT & CHERYL NECOCHEA
53 SETTLERS RD
BOISE ID 83716

RE: Scheduling Field Exam for Water Right Permit No. 63-31218

Dear Mr. and Mrs. Nechochea:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the weeks of June 24 & July 1, 2013**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes use of ground water for domestic, heating, irrigation, and storage. I have enclosed a water permit report and map depicting the permit place of use and point of diversion for your reference.

The current water right permit owner of record is James E. Mahoney. We have been unable to contact Mr. Mahoney. Boise County tax lot information indicates you may own the place of use property associated with this permit. A water right permit is personal property of the permit owner. It remains personal property unless it is assigned to a new owner. I have enclosed a Water Right Ownership packet for your information. This packet includes forms necessary to update ownership of the above referenced water right permit. **Please call me at 208-334-2190 by June 28, 2013 with any questions you may have and to schedule an exam appointment.** 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.

Enclosure(s): Water Permit Report and Map
Water Right Ownership packet