

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34006
Exam Date: 09/23/2020

1. Current Owner:
GEO A WEITZ INC 16909 MARSING RD CALDWELL ID 83607
2. Accompanied by: Joe Weitz
Phone No: 208-880-3445
Address: Near 12783 Riverside Rd, Caldwell, ID 83607
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Well log, site visit

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis

Comments: No overlap present

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
63-3253	Groundwater	Irrigation	Decreed

Comments: 63-3253 diverts groundwater from the same well and authorizes a diversion rate of 1.92 cfs when combined with water from Wilder Irrigation District. This rate of 1.92 cfs is recommended as the combined use limit for both water rights.

C. DIVERSION AND DELIVERY SYSTEM

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

GROUND WATER L2 (SW¼ NW¼), Sec. 31, Twp 03N, Rge 03W, B.M. CANYON County

Method of Determination: GPS located well at 43°33'22" N, 116°44'53" W during site visit.

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	04W	25																	1.0	1.0
03N	04W	36	8.0																	8.0

Total Acres: 9.0

Method of Determination: Digital PLSS map, aerial imagery

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
364634	US Motors - Holloshaft	40	1259995	Layne-Bowler	29345

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: No measurements were taken during this field exam

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Sprinkler ratings

50 rows of vines, decreasing in length in triangle shape
 1,600 ft line in full length row * 25 rows (to account for triangle shape) = 40,000 ft line total
 2 ft spacing for sprinkler heads for 40,000 ft line = 20,000 heads total
 20,000 heads * 0.26 GPH = 5,200 GPH
 5,200 GPH / 60 min/hr = 87 GPM = **0.19 cfs**

Permit	0.20 cfs
B.U. Standard	0.18 cfs
B.U. Fee Paid	\$100 → 0.21 to 1.00 cfs
Sprinkler Rate	0.19 cfs

License Recommendation 0.18 cfs

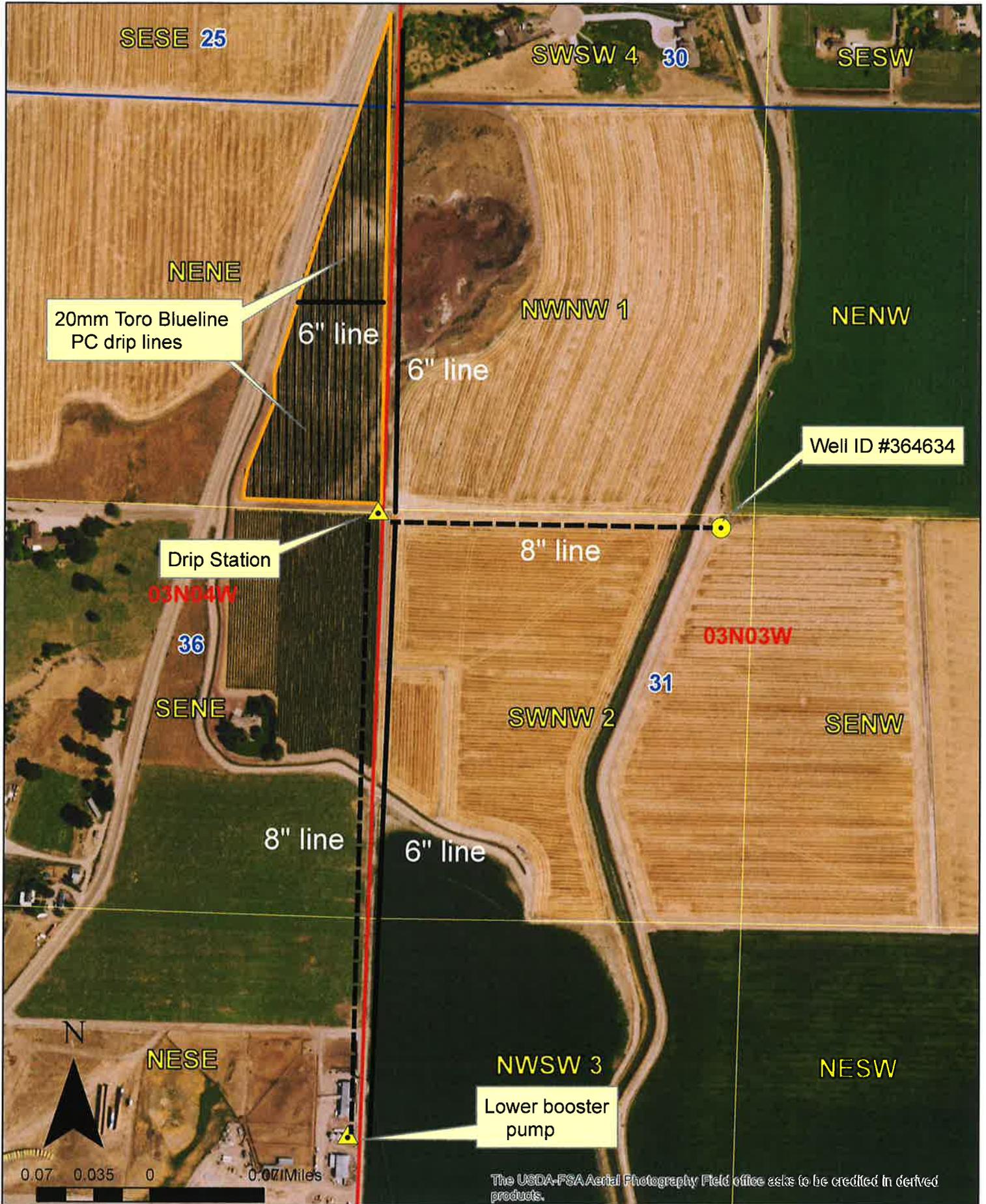
F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 9 \text{ acres} * 4.5 \text{ af/acre} = 40.5 \text{ af}$
 $V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.18 \text{ cfs} * 260 \text{ days} * 1.9835 = 93 \text{ af}$
 $V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 40.5 \text{ af}$

2. Volume Calculations for Other Uses: N/A

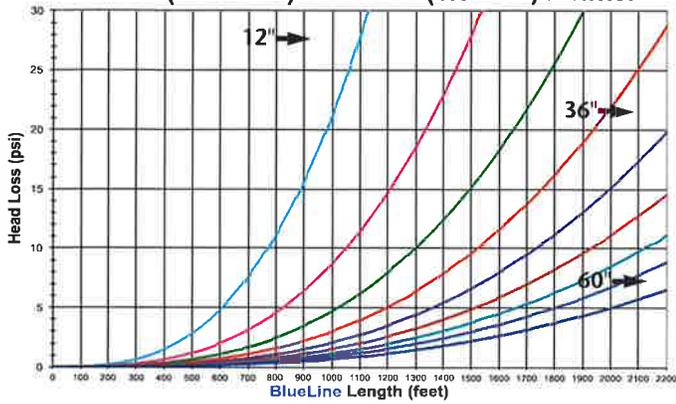
Delivery System Diagram 63-34006



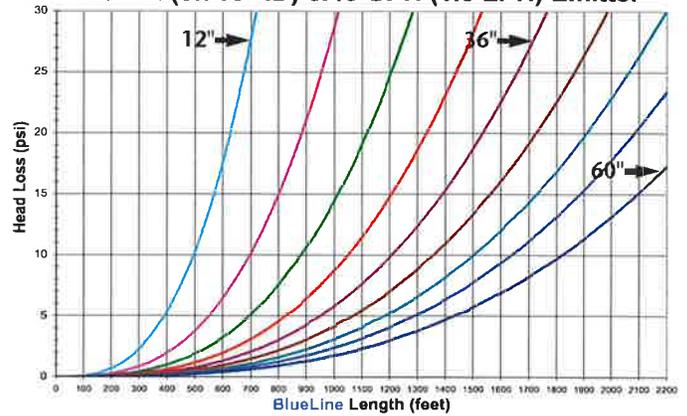
0.710" (20mm) BlueLine® PC Dripline

Spacings: 12" 18" 24" 30" 36" 42" 48" 54" 60"

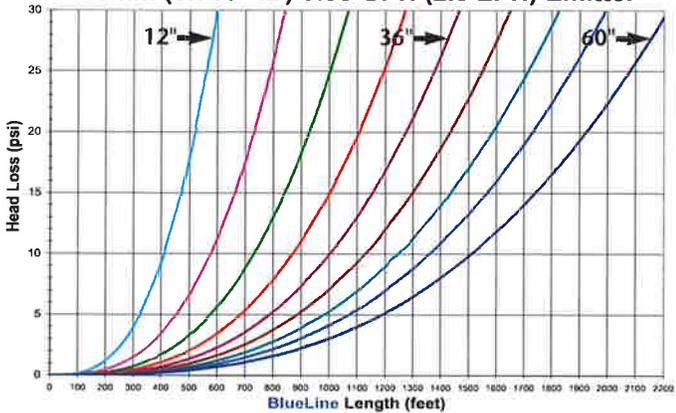
**Head Loss v. Length with 0% Slope.
20mm (0.710" ID) 0.26 GPH (1.0 LPH) Emitter**



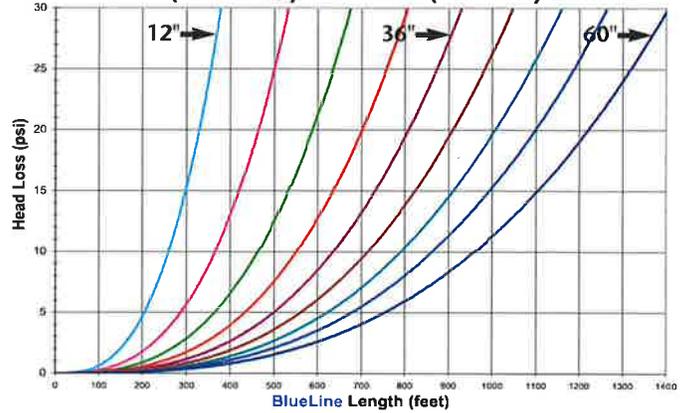
**Head Loss v. Length with 0% Slope.
20mm (0.710" ID) 0.40 GPH (1.5 LPH) Emitter**



**Head Loss v. Length with 0% Slope.
20mm (0.710" ID) 0.53 GPH (2.0 LPH) Emitter**



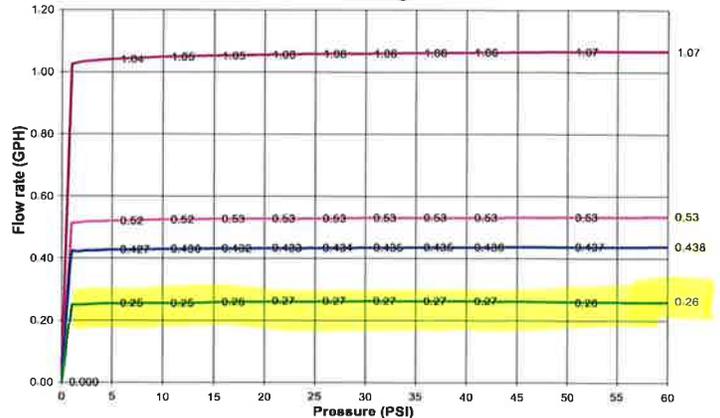
**Head Loss v. Length with 0% Slope.
20mm (0.710" ID) 1.06 GPH (4.0 LPH) Emitter**



Specification:

	English Units	Metric Units
Hose Nominal ID:	0.710"	20mm
Hose Nominal Wall:	0.048"	1.14mm
Nominal Flow Rate (Q): @ 30 psi (2 bar)	0.26, 0.40, 0.53 & 1.06 GPH	1.0, 1.5, 2.0 & 4 LPH
Operating Pressure Range (P):	10 to 60 psi	0.69 to 4.14 Bar
Coefficient of Variation (Cv):	<3%	<3%
Barb Loss Factor (Kd):	0.27	0.27
Minimum Filtration:	120 mesh (125 microns) for 0.40, 0.53, 1.06 gph 150 mesh (105 microns) for 0.26 gph	120 mesh (125 microns) for 0.40, 0.53, 1.06 gph 150 mesh (105 microns) for 0.26 gph

BlueLine Emitter Discharge Rate vs. Pressure



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Micro-Irrigation Business

1588 N. Marshall Avenue, El Cajon, CA 92020-1523, USA
Tel: +1 (800) 333-8125 or +1 (619) 562-2950
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toro.com

ALT100 05/16





26300 Sand Rd.
Parma, ID 83660

aquairr.com

Invoice

Date	Invoice #
4/1/2016	13885

Bill To:
Western Farms, Inc. 16909 Marsing Rd. Caldwell, ID 83605

Ship To:
Western Farms, Inc. 16909 Marsing Rd. Caldwell, ID 83605

Project	P.O. No.	Rep	Ship Date	Ship Via
			4/1/2016	CPU

Qty	Item	Description	U/M	Rate	Amount
42	BP71053-24	Toro BlueLine PC 20mm, .53gph, 24" spacing, 1000' roll	ca	97.59	4,098.78
Kasey Garrett 208-350-0563 Corby Garrett 208-250-7207			Total	\$4,098.78	

RECEIVED
 FEB 5 1962
 Department of Reclamation

027713 WELL LOG AND REPORT OF THE STATE RECLAMATION ENGINEER OF IDAHO

Permit No. 580042 Well No. _____ County Canyon
 Owner John Walker
 Address Route 4, Caldwell
 Driller Leonard Davis
 Address 273 Davis Ave Nampa, Idaho
 Well location S 27 1/4 Sec 21, T 2 N, R 7 W
 Size of drilled hole 12 in

Locate well in section

NW 1/4	NE 1/4
SW 1/4	SE 1/4

Total depth of well 220 ft

Give depth to standing water from the ground 65 ft Water temp. _____ °Fahr.

On "Pumping Test" delivery was 775 g.p.m. or _____ c.f.s. Drawdown was _____ feet.

Size of pump and motor used to make test _____

Length of time of test _____ hours _____ minutes.

If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____

If flowing well, described control works _____ (TYPE AND SIZE OF VALVE, ETC.)

Water will be used for irrigation Weight of casing per lineal foot 20

Thickness of casing 10 gauge Casing material Steel (STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing Cased to 176 ft (CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER; CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
<u>12"</u>	<u>surface</u>	<u>176</u>	<u>176</u>	<u>Test report included with log.</u>

Number and size of perforations 1" x 1/2" located 40 feet to 93 feet from ground

Date of commencement of well _____ Date of completion of well _____

SNNW S. 31 3N 3W

Point of Diversion Comparison

State of Idaho
Department of Water Resources
Beneficial Use Field Exam

Water right no. 63-34006

TRS	BasinSequence	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres	
03N03W31	63-3253	BROOMHALL, ADEL; W	GROUND WATER						X												
03N03W31	63-34006	GEO A WEITZ INC	GROUND WATER						X												

 = this right
 = overlap



Fig. 1 – View looking east. POU southern boundary to the left of the road. Drip station is seen in the foreground, the lower booster pump is out of view to the south, and the well is out of sight in the background.



Fig. 2 – View of POU from southern boundary looking north. There are roughly 50 rows of grapes being irrigated.



Fig. 3 – Well ID 364634
located at:

43° 33' 2" N

116° 45' 8" W



Fig. 4 – Well pump
info:

HP: 40

Volts: 220/440

Serial #: 1259995



Fig. 5 – Booster pump station south of POU located:
 43° 33' 2" N
 116° 45' 8" W



Fig. 6 – Booster pump info:
 HP: 50
 Volts: 230/460
 Serial #: 124697
 Make: Lincoln



Fig. 7 – Drip station and water filter system for POU located at:
43° 33' 22" N
116° 45' 9" W



Fig. 8 – The drip station has a Seametrics flow meter installed. Permit holder stated POU is always irrigated at 180 gpm from drip station for crop optimization.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 W Airport Way • Boise ID 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348

Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

September 9, 2020

COPY

GEO A WEITZ INC
16909 MARSING RD
CALDWELL, ID 83607

RE: Scheduling Field Exam for Water Right Permit No. 63-34006

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.20 CFS** of **GROUNDWATER** for **IRRIGATION** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 334-2190 or tyler.smith@idwr.idaho.gov to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Tyler Smith
Water Resource Agent

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Proof Report and Map