

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11041

Exam Date: 8/26/2016

1. Current Owner:

JON SCHWARTZ 213 VIA BUENA VENTURA REDONDO BEACH CA 90277 (310) 803-0384

And

ANN CLEVINGER 213 VIA BUENA VENTURA REDONDO BEACH CA 90277 (310) 373-9652

2. Accompanied by: Al Voking

Phone No: 208-661-2990

Relationship to Permit Holder: Installed system

3. **SOURCE:**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

2. Other water rights with the same point-of-diversion: None

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

GROUND WATER L2 (NE¼NW¼) Sec. 4, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 37.566, 116° 44.128 (A0020095)

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
49N	03W	4					X L 2		X L 4										

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
49N	03W	4					0.5 L 2		0.5 L 4										1.0

Total Acres: 1

Method of Determination: GPS and maps

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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
95-79-N-66	FRANKLIN	1.5			

*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. FLOW CALCULATIONS

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. AL VOKING SAID A 1.5 HP 18 GPM PUMP WAS INSTALLED BY HIMSELF AND A THEORETICAL PUMPING EQUATION VERIFIES THAT GALLONS PER MINUTE OR 0.04 CFS.



Additional Computation Sheets Attached

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F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \text{ AC} \times 3 \text{ AF} = 3 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ CFS} \times 246 \times 1.9835 = 14.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 3 \text{ AF}$$

2. Volume Calculations for Other Uses: DOMESTIC: 2 HOMES $\times$ 0.6 AF = 1.2 AF**G. NARRATIVE/REMARKS/COMMENTS**

Field exam with Al Voking, the applicant's representative showed there were only two homes being served by the well. Mr. Voking was unable to get into pump house because the key was changed and he did not know where new key was at. He said he put an 18 gpm 1.5 hp pump in well. Theoretical pumping equation supports this and shows it can produce 18 gpm. Permit was assigned from owner Gimbel to Mr. Schwartz and Ms. Clevinger who own the two homes served by the well. Water from well was pumped up hill to storage tanks which fed homes and irrigation of 1 acre.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
IRRIGATION	03/15 to 11/15	0.03 CFS	3.0 AF
	<u>Totals:</u>	0.040 CFS	4.20 AF

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

Field Examiner's Name Adam Finkbeil Date 10-24-2016

Reviewer Morgan Case Date 12/30/2016

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Department of Water Resources
Water Right License
95-11041

03W

49N



0 0.035 0.07 0.14 Miles

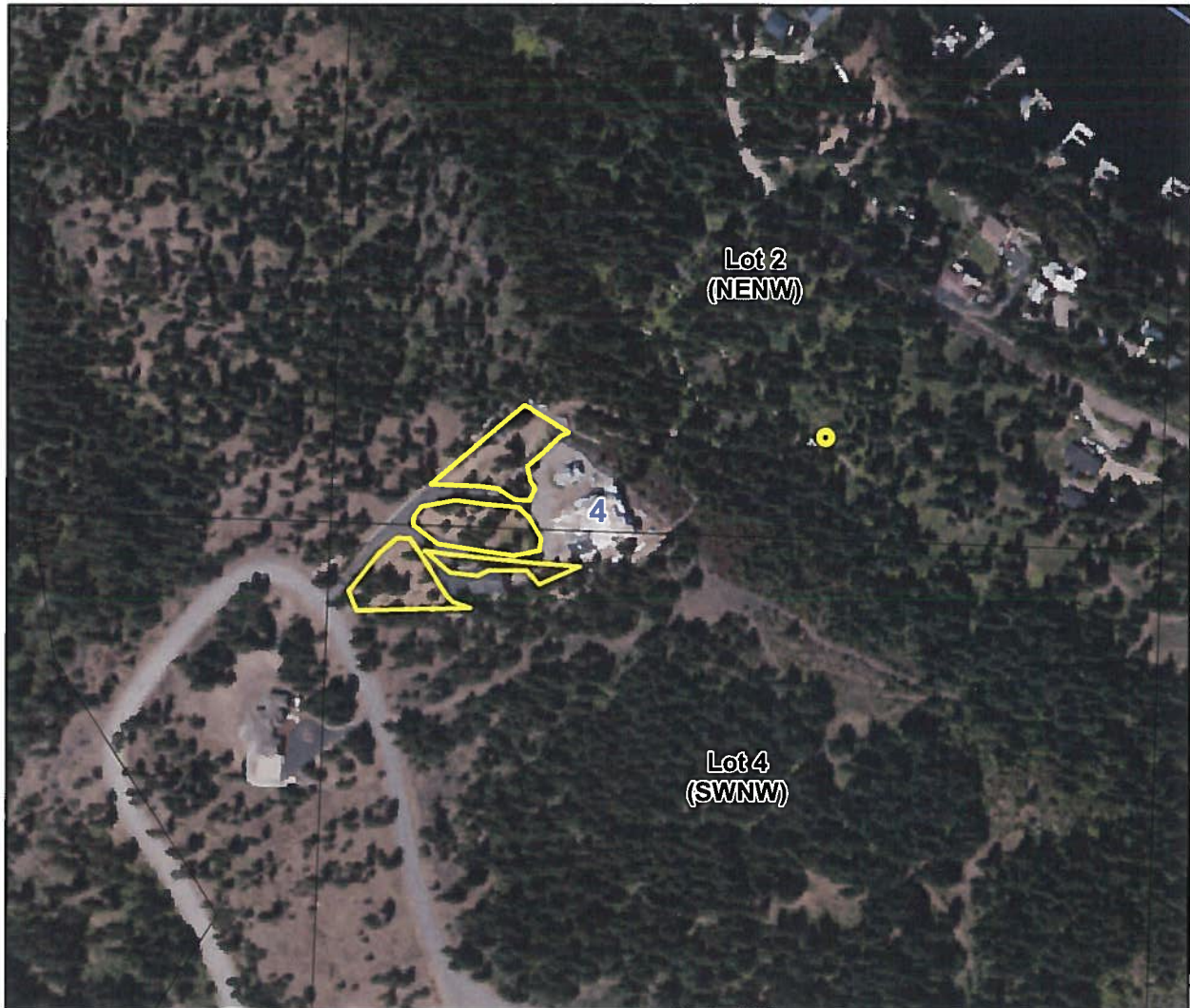
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

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03W

49N



0 0.035 0.07 0.14 Miles

-  Point of Diversion
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-  Townships
-  PLS Sections

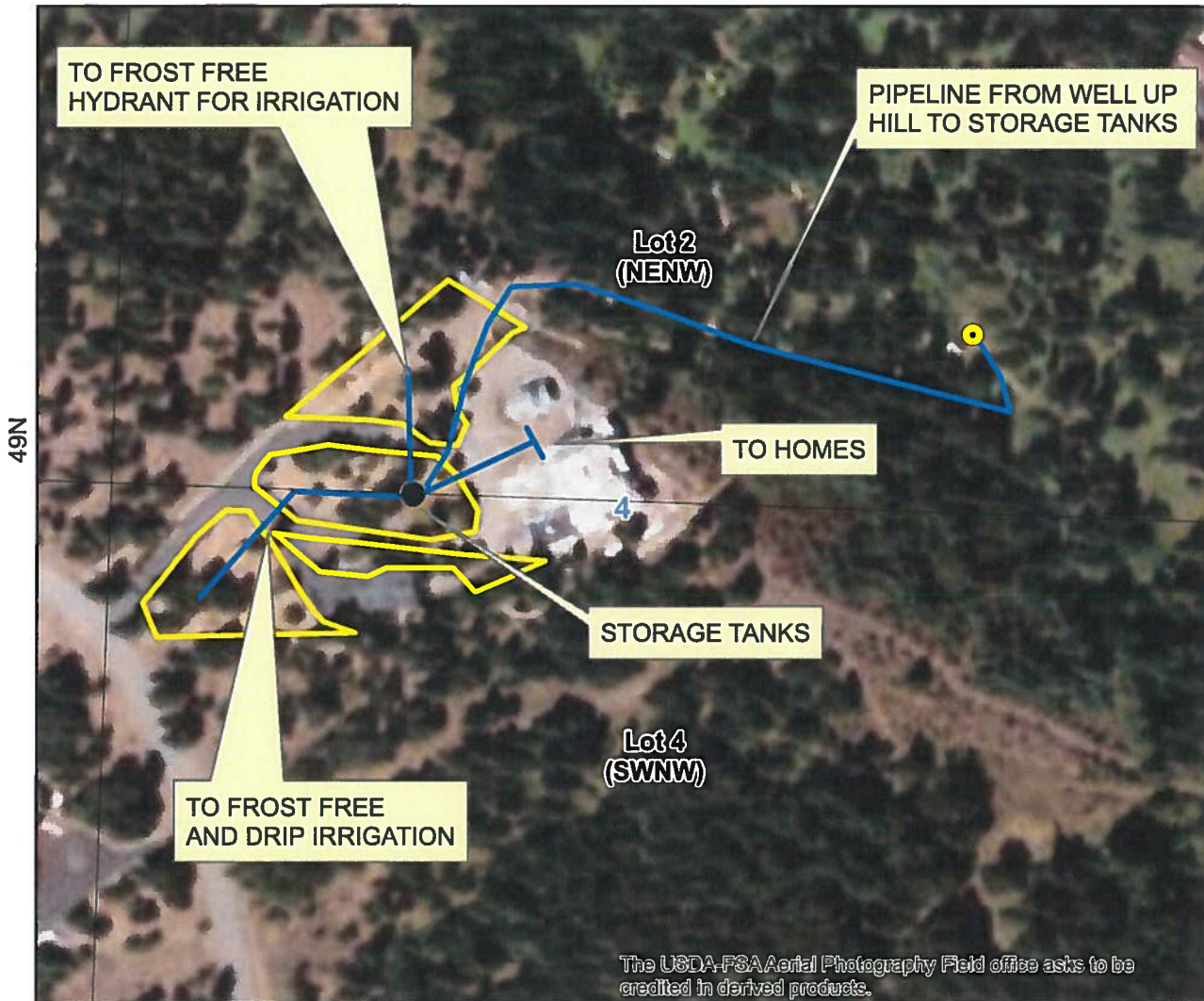
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SYSTEM DIAGRAM

03W



0 0.02 0.04 0.08 Miles

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

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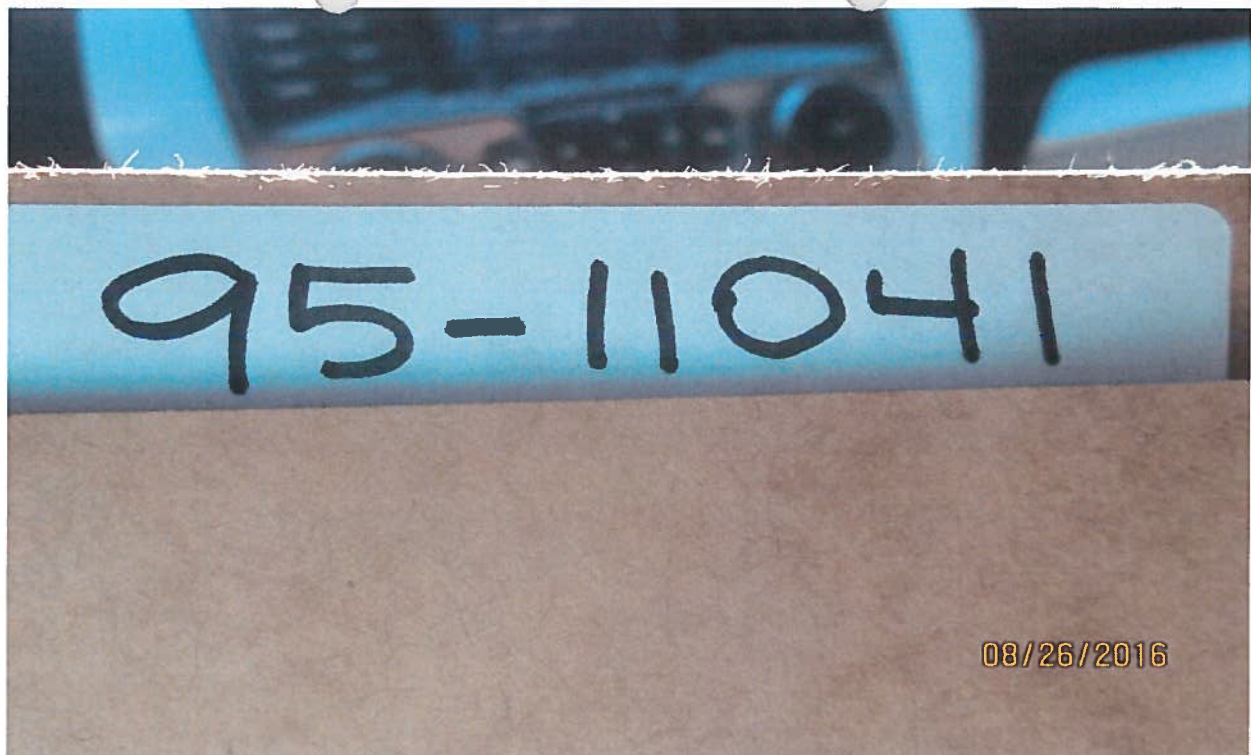
N

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-11041

WELL WAS DRILLED TO 195 FEET. ASSUMED PUMP WAS SET AT 180 FEET AND RUNNING AT 35 PSI.

PUMP EQUATIONS WATER RIGHT No. 95-11041						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$HP \cdot 8.8 \cdot \text{Eff} / H$	1.5	260.9524	0.8	180	35
Q = 0.041 cfs 18.2 gpm						

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WELL AT BOTTOM OF THE HILL BELOW HOMES. WELL WAS DRILLED IN 1979 TO A DEPTH OF 195FT. UNABLE TO CONFIRM HORSE POWER PUMP BECAUSE LOCK HAD BEEN CHANGED ON PUMP HOUSE. AL VOKING SAID HE INSTALLED AN 18 GPM 1.5 HP PUMP IN WELL.

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HOME 1



GARAGE AND SHOP, NO WATER USE, IRRIGATION AROUND SHOP.

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IRRIGATION AND STORAGE TANKS AT TOP OF HILL INBETWEEN BOTH HOMES



MORE IRRIGATION AROUND HOMES

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FROST FREE FOR IRRIGATION



IRRIGATION LOOKING UP AT GUEST HOUSE ALONG SIDE OF MAIN HOUSE

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IRRIGATION ALONG DRIVEWAY

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