

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11108

Exam Date: 9/18/2015

1. Current Owner: ROBERT J DUNCAN
3565 W CAMROSE LN
RATHDRUM ID 83858
(208)687-0938

And/Or

RHONDA L DUNCAN
3565 W CAMROSE LN
RATHDRUM ID 83858
(208)687-0938

2. Accompanied by: Robert Duncan

3. SOURCE**TRIBUTARY**

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

GROUND WATER SE1/4NE1/4 Sec. 21, Twp 52N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 50.379, 116° 50.067 (A0015461)

2.

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	
52N	04W	21			.7	3.0													3.7

Total Acres: 3.7

Method of Determination:

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
95-84-N-76	FRANKLIN	5			

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION ESTIMATES $(5 \text{ HP})(8.8)(0.8) / 165 + (40 \times 2.3087) = 0.14 \text{ CFS}$. ASSUMED PUMP SET AT 165 FEET AND APPLICANT SAID SYSTEM RAN AT 40 PSI.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.7 \text{ AC} \times 3 \text{ AF} = 11.1 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \times 246 \times 1.9835 = 53.7 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = 11.1 \text{ AF}$$

2. Volume Calculations for Other Uses:**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED WELL WITH 5HP PUMP RUNNING AT 40 PSI. UNABLE TO PERFORM FLOW MEASUREMENT, THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 61.4 GPM OR 0.14 CFS. APPLICANT APPLIED FOR 6 ACRES OF IRRIGATION, UPON FIELD EXAM THERE WAS ONLY 3.7 ACRES ACTUALLY BEING IRRIGATED. LICENSE WILL BE ISSUED FOR 0.11 CFS WITH THE IRRIGATION OF 3.7 ACRES WITH AN ANNUAL VOLUME OF 11.1 AF. APPLICANT WAS IRRIGATING LAWN, GARDEN, OVERGRAZED PASTURE AND TREES IN BACK OF PROPERTY FOR FIRE PROTECTION PURPOSES.

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>
IRRIGATION	03/15 to 11/15	0.110 CFS	11.10 AF
<u>Totals:</u>		0.110 CFS	11.10 AF

2. Recommended Amendments

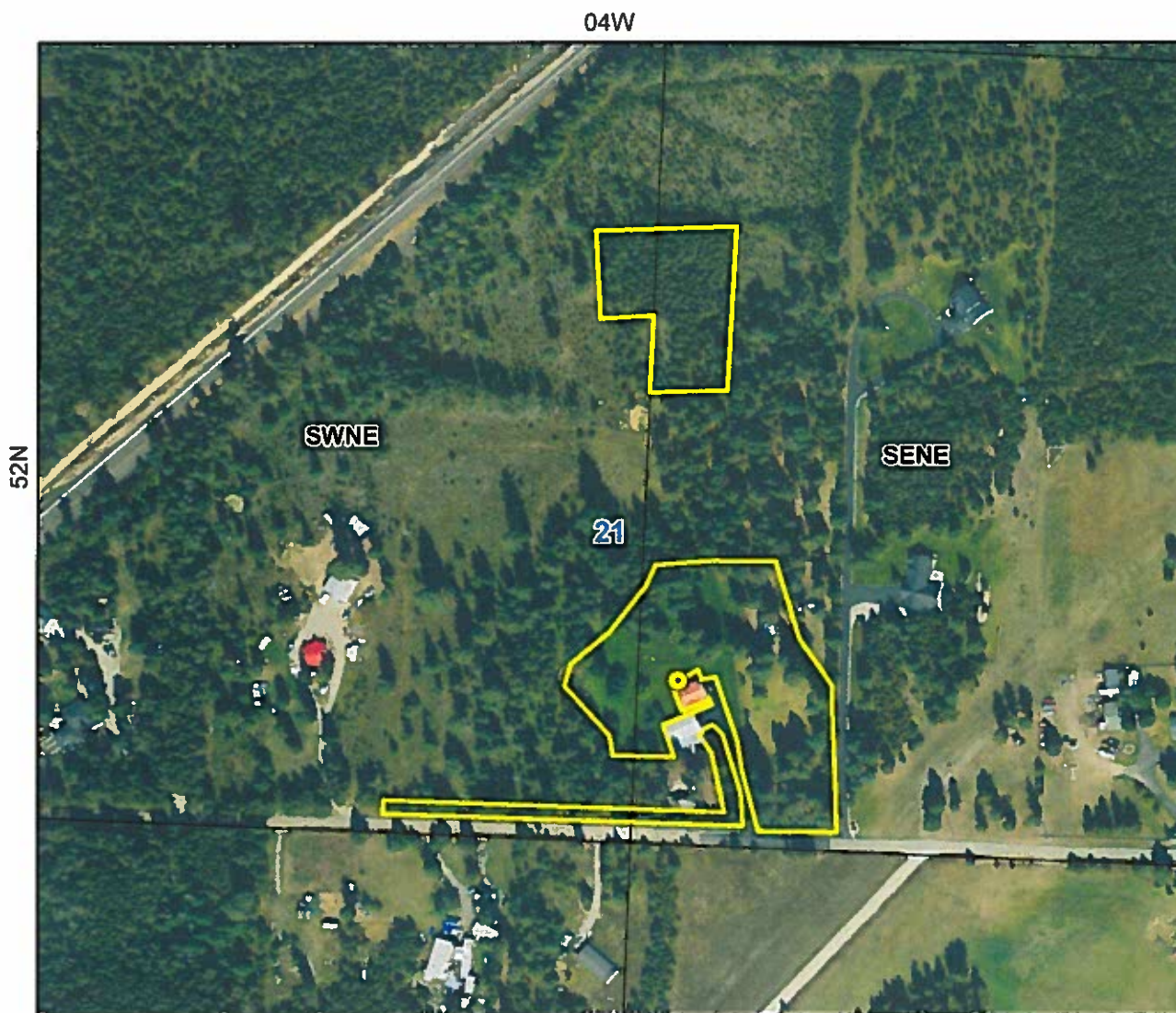
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Funder Date 1-21-2016
 Reviewer E. J. [Signature] Date 1-21-2016

State of Idaho
Department of Water Resources
Water Right License
95-11108



0 0.035 0.07 0.14 Miles

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



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-11108

PUMP EQUATIONS WATER RIGHT No. 95- 11108						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	5	257.51 7	0.8	165	40
Q = 0.137 cfs 61.4 gpm						

ASSUMED PUMP SET AT 165 FEET. APPLICANT SAID SYSTEM RAN ON 40 PSI.

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Steve BockmanAddress Hayden Lake, IdahoOwner's Permit No. 95-84-N-62

7. WATER LEVEL

Static water level 0 feet below land surface.Flowing? ☐ Yes ☒ No G.P.M. flow _____

Artesian closed-in pressure _____ p.s.i.

Controlled by: ☐ Valve ☐ Cap ☐ Plug

Temperature _____ of. Quality _____

Describe artesian or temperature zones below.

2. NATURE OF WORK

- ☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

- ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

- ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	6 inches	1 foot	168 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ NoWas a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth 20 Material used in seal: ☐ Cement grout☐ Bentonite ☐ Pudding clay ☐ _____Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing☒ Overbore to seal depthMethod of joining casing: ☐ Threaded ☒ Welded ☐ Solvent☐ Cemented between strata

Describe access port _____

8. WELL TEST DATA

☐ Pump ☐ Bailor ☐ Air ☐ Other _____

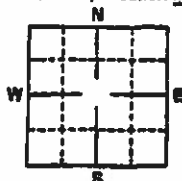
Discharge G.P.M.	Pumping Level	Hours Pumped
_____	_____	_____
_____	_____	_____
_____	_____	_____

9. LITHOLOGIC LOG

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
-	0	2	topsoil & gravel		
	2	169	gravel		
	169	180	eleven foot boulder		

RECEIVED
SEP 4 1984
Department of Water ResourcesRECEIVED
AUG 28 1984
Department of Water Resources
Northern District Office

6. LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name _____

Lot No. _____ Block No. _____

County Kootenai1/4 NW 1/4 Sec. 21, T. 52 N., R. 4 E.W.

10.

Work started _____ finished _____

11. DRILLERS CERTIFICATION

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

Coeur d'Alene Drilling, Inc. 214

Firm Name _____ Firm No. _____

P.O. Box 386

Address Hayden Lake, Idaho Date 8-20-84Signed by (Firm Official) Bill E. Kelly

and

(Operator) Brad L. Smith



95-11108





95-11108



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