

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10890

Exam Date: 9/25/2015

1. Current Owner: CINDY FERRELL
PO BOX 311
ATHOL ID 83801
(208)683-3210

And/Or

RON FERRELL
PO BOX 311
ATHOL ID 83801
(208)683-3210

2. Accompanied by: Cindy Ferrell

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 SW1/4NE1/4 Sec. 10, Twp 53N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 57.369, 116° 41.022 (A0015455)

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 03W 10	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	1.5
			.7	.8													

Total Acres: 1.5

Method of Determination: GPS and maps

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>
96-75-N-58	UNKNOWN	7.5			

*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>
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2. Measurements: N/A

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r.
THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 0.1 CFS OR 43.0 GPM.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \text{ AC} \times 3.0 = 4.5 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \text{ CFS} \times 246 \text{ DAYS} \times 1.9835 = 24.4 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 4.5 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM REQUIRED TO VERIFY IF 10 ACRES OF LAND WERE ACTUALLY BEING IRRIGATED AS CLAIMED ON PROOF OF BENEFICIAL USE STATEMENT. FIELD EXAM SHOWED THAT ONLY 1.5 ACRES WAS ACTUALLY BEING IRRIGATED. WELL WAS LOCATED ON NEIGHBORS PROPERTY THAT HAD WELL USE AGREEMENT IN PLACE TO ALLOW APPLICANT TO USE IT. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION SHOWS WELL CAN PRODUCE 0.1 CFS OR 43 GPM. LICENSE WILL BE ISSUED FOR 0.05 CFS AND IRRIGATION OF 1.5 ACRES.

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	0.050 CFS	4.50 AF
<u>Totals:</u>		0.050 CFS	4.50 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 John Fendrich Date 10-8-15
 Reviewer Chris [Signature] Date 11-3-2015

State of Idaho
Department of Water Resources
Water Right License
95-10890

03W

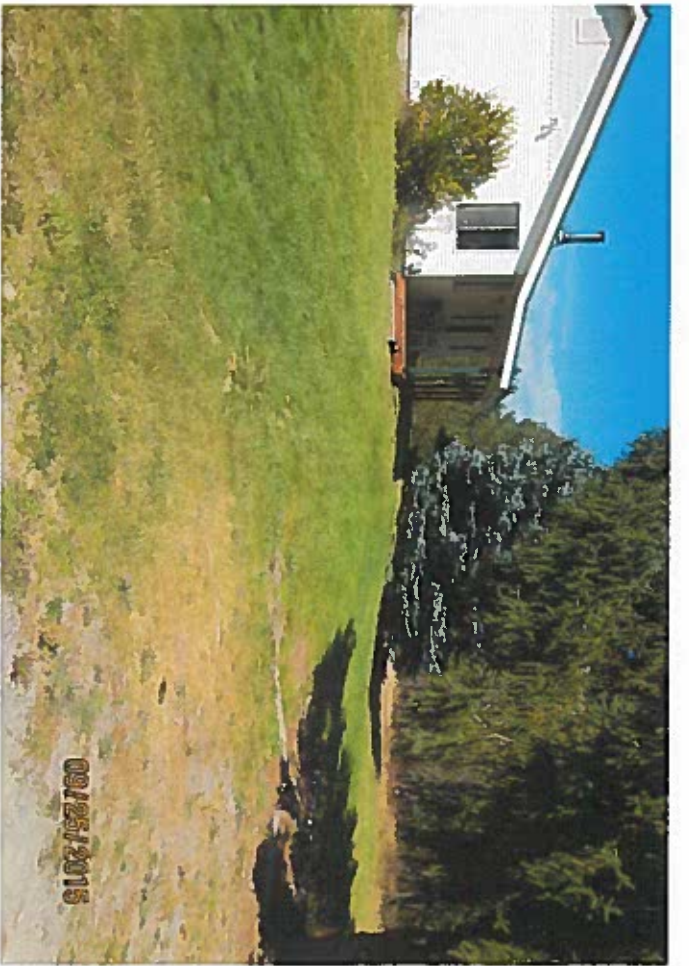
53N



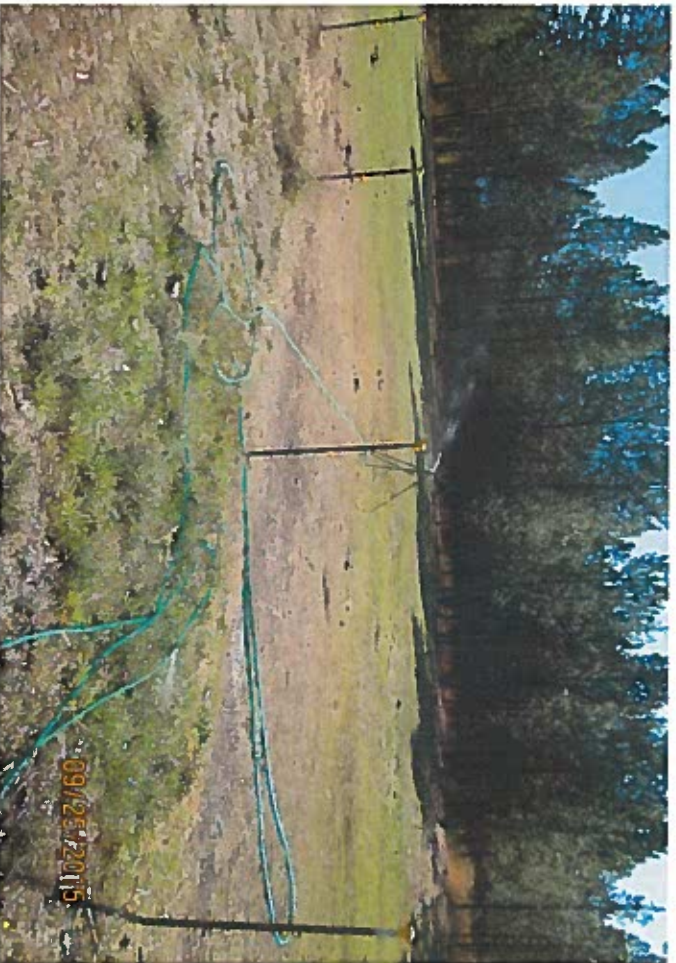
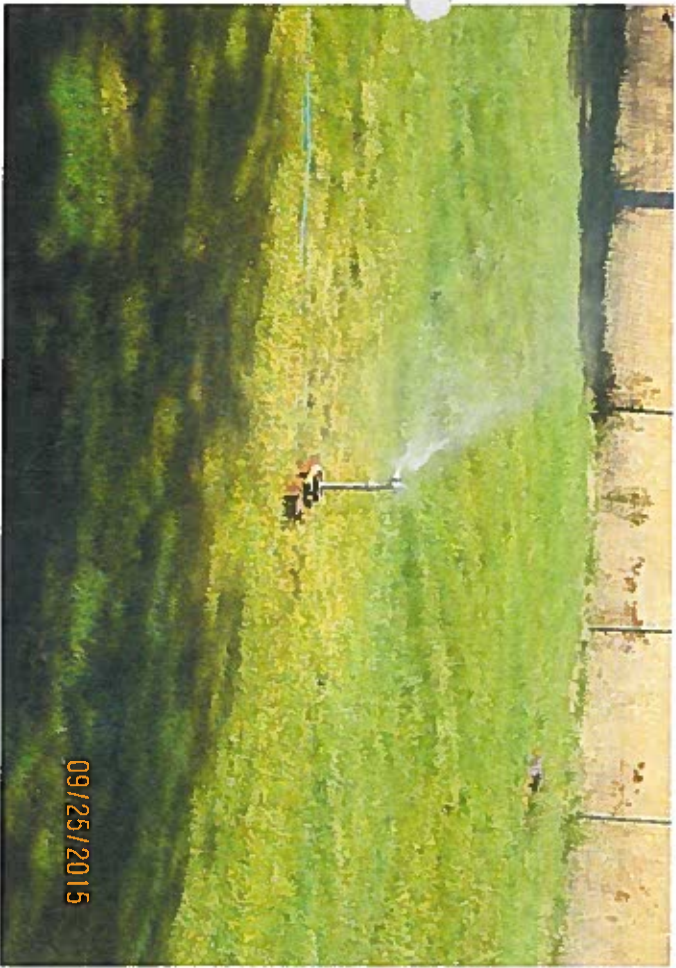
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles

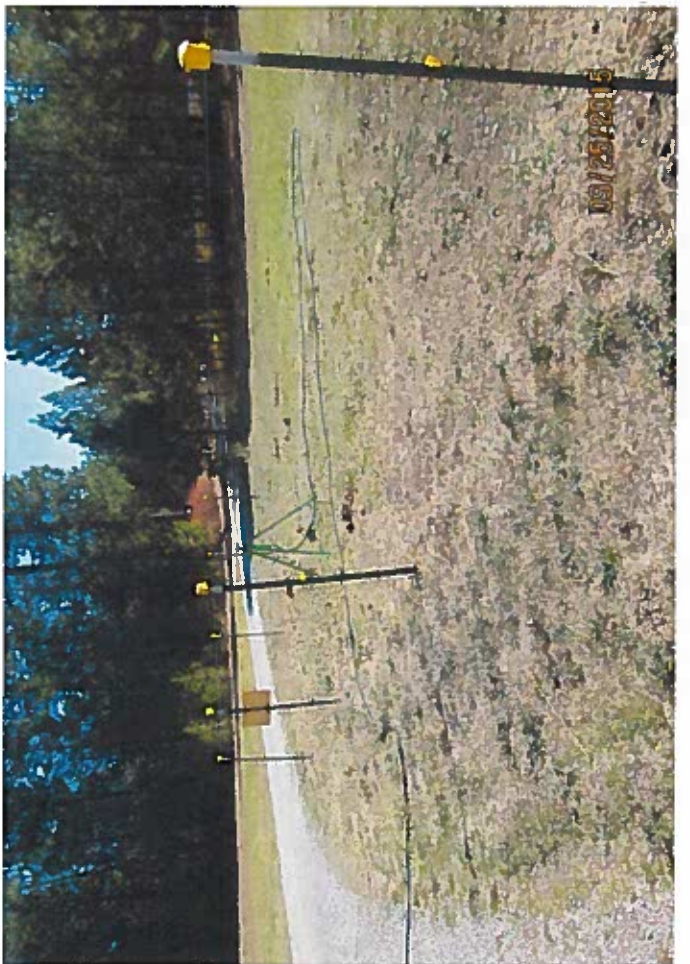
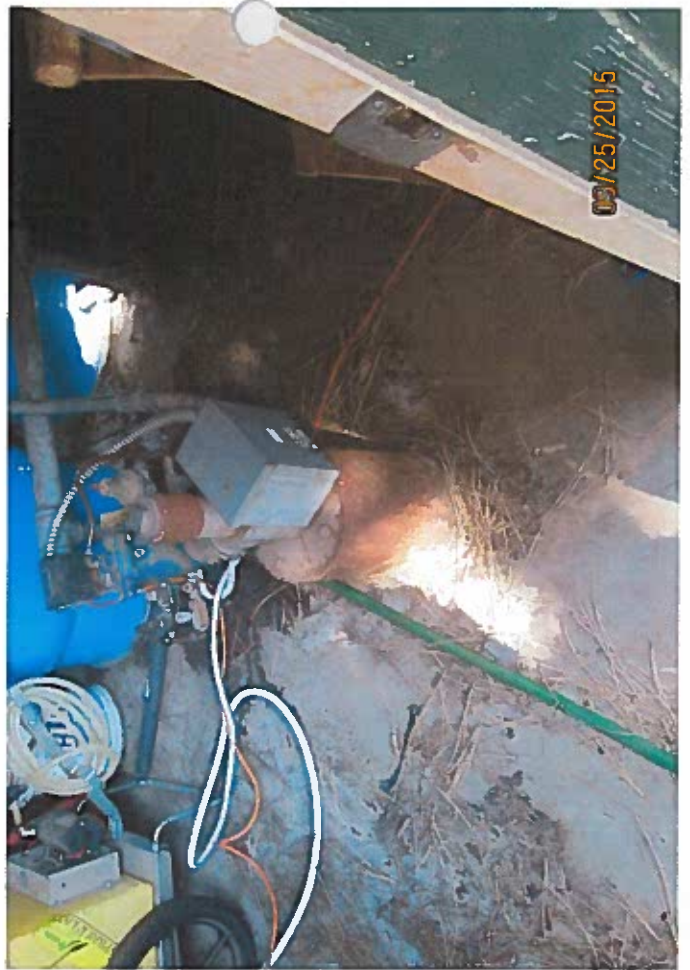




95-10890



95-10890



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95-1089A

PUMP EQUATIONS WATER RIGHT No. 95-10890						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	7.5	551.5238	0.8	422	56
Q =		0.096 cfs	43.0 gpm			

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

0.1N3

RECEIVED

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.

JUL 31 1975

1. WELL OWNER

Name William P Sims
Address Atlatl Idaho
Owner's Permit No. 96-75-N-58

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

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

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 442 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness Diameter From To

3.50 inches 8 inches 1 feet 432 feet

3.22 inches 8 inches 432 feet 442 feet

_____ inches _____ inches _____ feet _____ feet

_____ inches _____ inches _____ feet _____ feet

_____ inches _____ inches _____ feet _____ feet

Was casing drive shoe used? ☒ Yes ☐ No

Was a pecker or reel used? ☐ Yes ☒ No

Perforated? ☐ Yes ☒ No

How 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 120 Material used in seal ☐ Cement grout

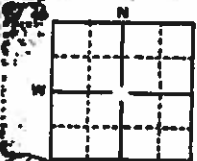
☒ Pudding clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☒ Temporary surface casing

☒ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County KARTERAKI

SW x NE x Sec. 10 T. 53 N. R. 3 W.

7. WATER LEVEL

Static water level 378 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature 64.4 °F. Quality EXCELLENT
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☒ Bailor ☐ Other

Discharge G.P.M. Draw Down Hours Pumped

20 0 8

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
8"	0	14	CLAY + GRAVEL		
	14	37	BAKERS		
	37	44	GRAVEL + SILT		
	44	53	BAKERS		
	53	62	CLAY + GRAVEL		
	62	67	GRANITE BOUNDER		
	67	99	LARGE GRAVEL + CLAY		
	99	104	SAND + GRAVEL		
	104	144	GRAVELLED GRAVEL		
	144	184	BAKERS		
	184	236	LARGE GRAVEL + CLAY		
	236	262	BAKERS		
	262	341	GRAVELLED GRAVEL + CLAY		
	341	382	GRAVEL MEDIUM SIZED		
	382	402	" + CLAY		
	402	412	DECOMPOSED GRAVEL		
	412	442	LARGE GRAVEL + CLAY		
			" + COARSE SAND		

LOGS 506

10.

Work started 6-16-75 finished 7-28-75

11. DRILLERS CERTIFICATION

Firm Name BOON & WATER WELLS Firm No. 287

Address RAIDEN IDAHO Date 9-29-75

Signed by (Firm Official) Landon Gordon

and
Operator Randy Gordon

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT