

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 22-7489

1. Owner: Irene Hansen

Phone No.

Current Address:

Current Address: 241 N 2300 E, St Anthony, ID 83445

2. Accompanied by: Judd Crago

EXAM DATE : 0-13-2001

Address:

Address: 2417 E 482 N St Anthony ID 83445 Phone No (208) 624-3293

Relationship to Permit Holder:

Relationship to Permit Holder: Manager / Leasee

3. Source:

Ground water

tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

No

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

Yes - 80 acres 47 acres 13 acres 80 acres
22-7267A, 7267B, 13602

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

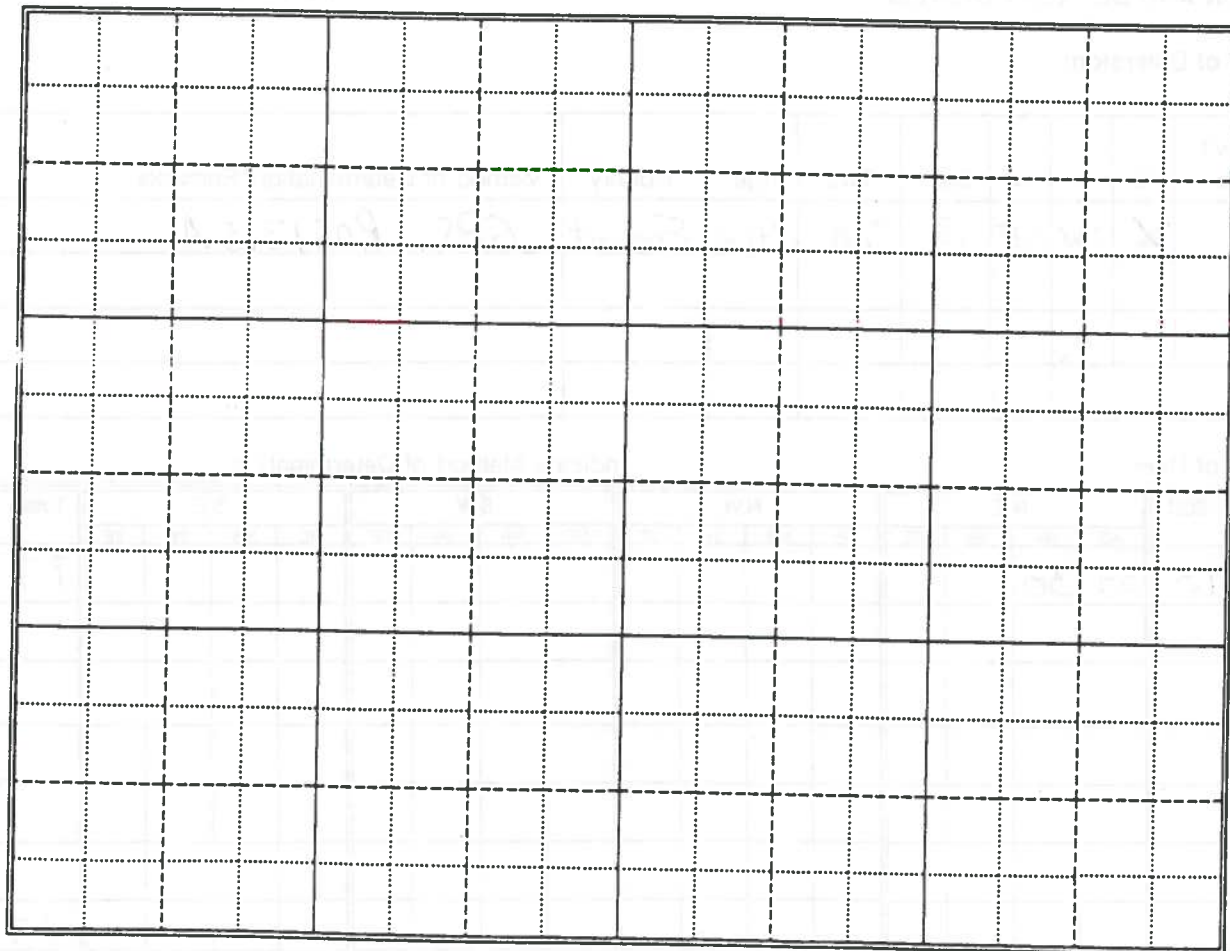
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2. Place(s) of Use:

Indicate Method of Determination

[illegible]

3. Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



 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 Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Westinghouse	450	35-77	Johnston	
	Goosier	300	093204005		

*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:

highest flyi reading observed by 2300 gpm



POD 22-7489 looking west



Southwest view

LOG NAME: **22-7489**
START: 08-13-2001 09:20
END: 08-13-2001 09:25
INTERVAL: 00:01:00

08-13-2001 09:20:00
+6.866E+0 ft/s
+2.324E+3 gal/m
+5.179E+0 ft3/s
+TOTAL 0000000 gal
-TOTAL 0000000 gal
NORMAL

08-13-2001 09:21:00
+6.752E+0 ft/s
+2.286E+3 gal/m
+5.093E+0 ft3/s
+TOTAL 0002269 gal
-TOTAL 0000000 gal
NORMAL

08-13-2001 09:22:00
+6.859E+0 ft/s
+2.322E+3 gal/m
+5.173E+0 ft3/s
+TOTAL 0004578 gal
-TOTAL 0000000 gal
NORMAL

08-13-2001 09:23:00
+6.774E+0 ft/s
+2.293E+3 gal/m
+5.110E+0 ft3/s
+TOTAL 0006876 gal
-TOTAL 0000000 gal
NORMAL

08-13-2001 09:24:00
+6.857E+0 ft/s
+2.321E+3 gal/m
+5.172E+0 ft3/s
+TOTAL 0009177 gal
-TOTAL 0000000 gal
NORMAL

08-13-2001 09:25:00
+6.791E+0 ft/s
+2.299E+3 gal/m
+5.122E+0 ft3/s
+TOTAL 0011470 gal
-TOTAL 0000000 gal
NORMAL

$Q_{MAX} = \underline{2324} \text{ gpm} =$
 $\underline{5.18} \text{ cfs}$

$Q_{MIN} = \underline{2286} \text{ gpm} =$
 $\underline{5.09} \text{ cfs}$

$Q_{AVG} = \underline{2307.5} \text{ gpm} =$
 $\underline{5.14} \text{ cfs}$

22-07489

Measurement without booster

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 22-7489

Reviewer:

Date of Review: 5/28/2013

without booster with booster

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	450	450	0
BOOSTER HORSEPOWER	0	200	0
PUMPING LEVEL	420	420	0
DISCHARGE PRESSURE	50	55	0
RATE OF FLOW (cfs)	5.18	7.32	#DIV/0!

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$

Assumptions: %70 efficiency.
No Friction

Examiners Notes:

System was running 2 plots. Judd said the plots take 1200 gpm each. This matched closely with the flow reading.

There are other parcels that this well waters see areas outlined in yellow

Water is thermal, it is roughly 118° Fahrenheit

The system has a booster pump, but it hasn't been run this year. When it is run, it will increase the system flow 1000 gpm. Judd sold the power on it this year.

Cropes have run the farm for many years. Irene Hansen is a widow.

NOTE: Theoretical CFS WITH BOOSTER 7.32 CFS

ORIGINAL LICENSE 22-7207 = 4.1 CFS

WELL COULD PRODUCE AN ADDITIONAL 3.22 CFS with booster.

THIS ADDITIONAL 77 ACES = 1.54 CFS

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 77 \times 3.5 = 269.5$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 1.54(1.9835)(214) =$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 269.5$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irr	4/1	10/31	1.54	269.5
Totals:			1.54	269.5

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 Steve Mueller Date 8-13-01

Reviewer DAVE CARLSON Date 5/28/2013

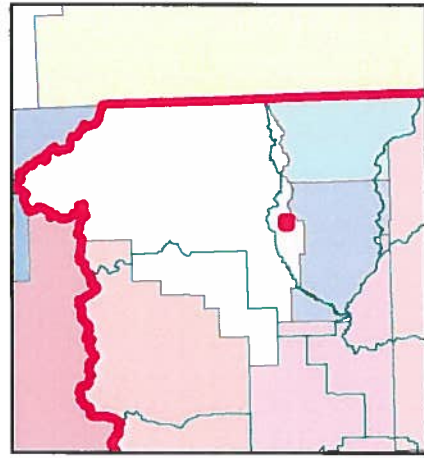
SEAL



Idaho Department of Water Resources

Water Right
22-7489
(IRRIGATION)

-  Point of Diversion
-  Place of Use
-  State Outline
-  Townships
-  PLS Sections
-  Quarter Quarters



Fremont County
IDWR Basin 22

Prepared by Carlson, Dave

2009 Aerial Photography

