

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 11-7257

Exam Date: 5/23/2014

1. Current Owner: DENNIS HUNZEKER
STAR RT BOX 1110
MONTPELIER ID 83254

*Partial exam
completed 6/26/88*

And/Or

ROGER HUNZEKER
STAR RT BOX 1110
MONTPELIER ID 83254

2. Accompanied by: None

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

SPRING

TRIBUTARY

SINKS

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:

SPRING

NW1/4SE1/4

Sec. 20, Twp 13S, Rge 45E, B.M.

BEAR LAKE County

Method of Determination: Aerial Photography and GPS.

2.

PLACE OF USE: IRRIGATION

Tw	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13S	45E	29							6.1	8.7	22.0	12.0	13.4	15.3					77.5

Total Acres: 77.5

PLACE OF USE: STOCKWATER

Tw	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13S	45E	29							X										

Method of Determination: Site visit and aerial photography

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

D. FLOW MEASUREMENTS

2. Measurements:

The diversion headgate was filled in with dirt. Irrigation system was not in operable conditions at the time of the exam. Used sprinkler count method to determine rate of diversion.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

Irrigation system consists of three wheel lines with a combined total of 73 rain birds. Gravity fed pressurized system.

PSI= feet of head/2.31

170ft/2.31=74.0 psi

1.0 rain bird with 5/32 nozzles at 74 psi produces approximately 6.3 gallons per minute.

Q= 6.3gpm x 73 rain birds

Q= 459.9 gallons per minute = 1.02 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V = 77.5 \text{ acres irrigated} \times 3.5 \text{ acre-feet/acre} = 271.3 \text{ acre-feet}$

$V_{D.R.} = 1.02 \text{ cfs} \times 184 \text{ days} \times 1.9835 = 372.3 \text{ acre-feet}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 271.3 \text{ acre-feet}$

2. Volume Calculations for Other Uses:

2500 head of sheep at 2.0 gallons per day per sheep

300 head of range cattle at 12.0 gallons per day per cow

$2500 \times 2.0 \text{ gallons/sheep} \times 365 \text{ days} = 1,825,000 \text{ gallons} = 5.6 \text{ acre-feet}$

$300 \times 12.0 \text{ gallons/cow} \times 365 \text{ days} = 1,314,000 \text{ gallons} = 4.0 \text{ acre-feet}$

$5.6 \text{ acre-feet} + 4.0 \text{ acre-feet} = 9.6 \text{ acre-feet}$

G. NARRATIVE/REMARKS/COMMENTS

Point of diversion consists of a concrete headgate structure diverting water through a pipeline to three wheel lines. This is a gravity fed pressurized irrigation system. Irrigation system was not in operable conditions at the time of the exam. Elevation difference between the point of diversion and wheel lines is approximately 170.0 feet. Intake pipe is located inside the concrete headgate structure. The headgate and intake pipe was filled in with dirt. Based on aerial photography the permit holders have irrigated 77.5 acres. 2013 aerial photography reveals that irrigation has occurred. At the time of the exam there were several range cattle and sheep present on the permit holders' property. The rate of diversion for this permit was determined by using the sprinkler count method.

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	04/15 to 10/15	1.020 CFS	271.30 AF
STOCKWATER	01/01 to 12/31	0.110 CFS	9.60 AF
<u>Totals:</u>		1.020 CFS	280.00 AF

2. Recommended Amendments

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

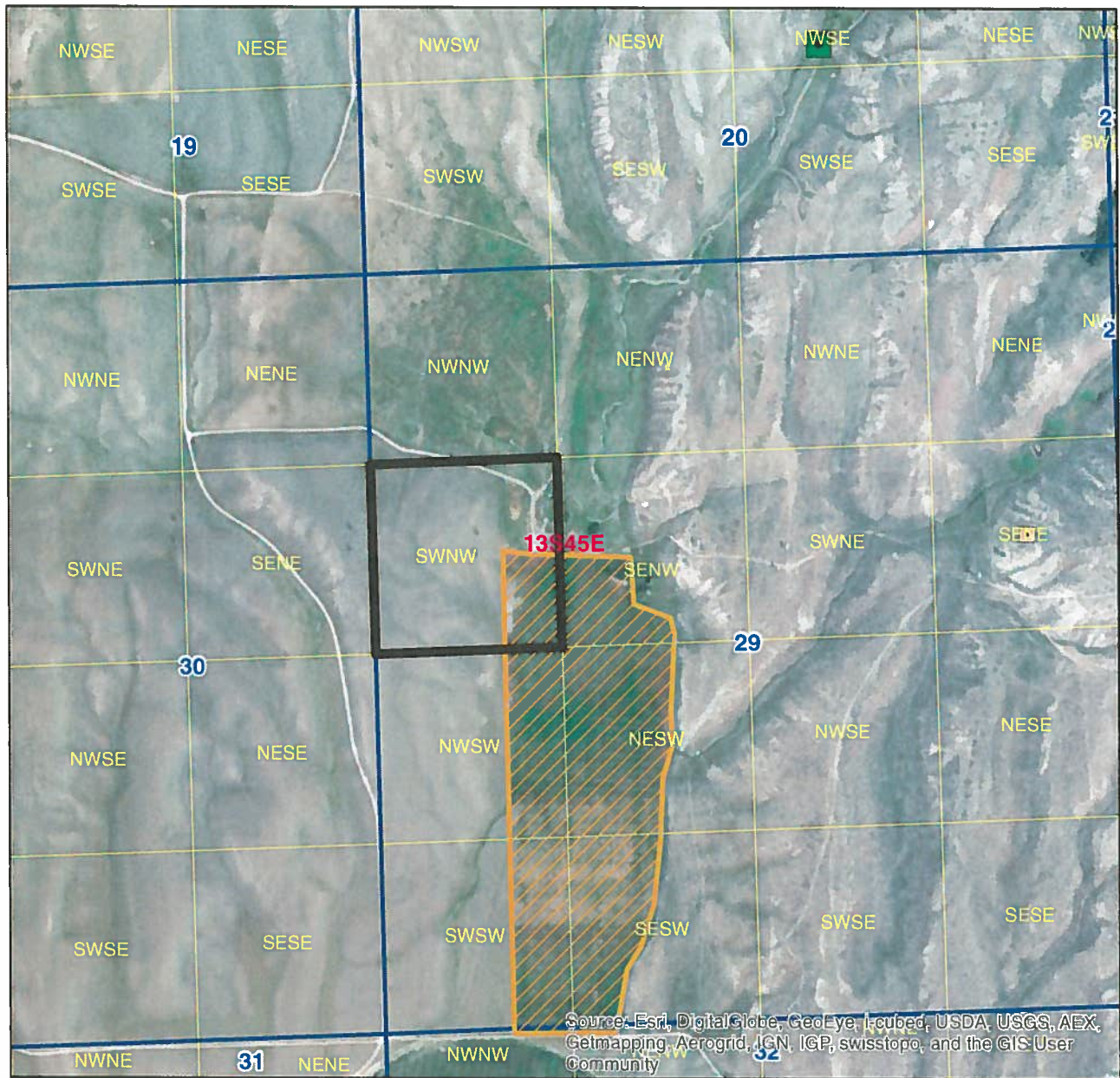
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Blake Jordan Date 6/4/2014

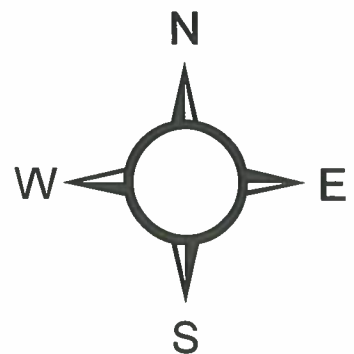
Reviewer _____ Date _____

11-7257



Legend

-  Point of Diversion
-  Stockwater_POU
-  Irrigation_POU
-  Township/Range
-  Sections
-  QQ



0 625 1,250 2,500 Feet
1 inch = 1,168 feet



Picture taken below point of diversion looking upstream.



Looking north.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 11-7257

1. Owner: ROGER OR DENNIS HUNZEKER Phone No. 847-2867

Current Address: Bench Rd., Montpelier Idaho

2. Accompanied by: FRED HUNZEKER EXAM. DATE: PARTIAL 6-28-98

Address: 1017 Bench Rd, Montpelier Id. Phone No. 847-1303

Relationship to Permit Holder: FATHER

3. Source: Spring (unnamed) tributary to SINKS

B. OVERLAP REVIEW

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

☐ Copies Attached

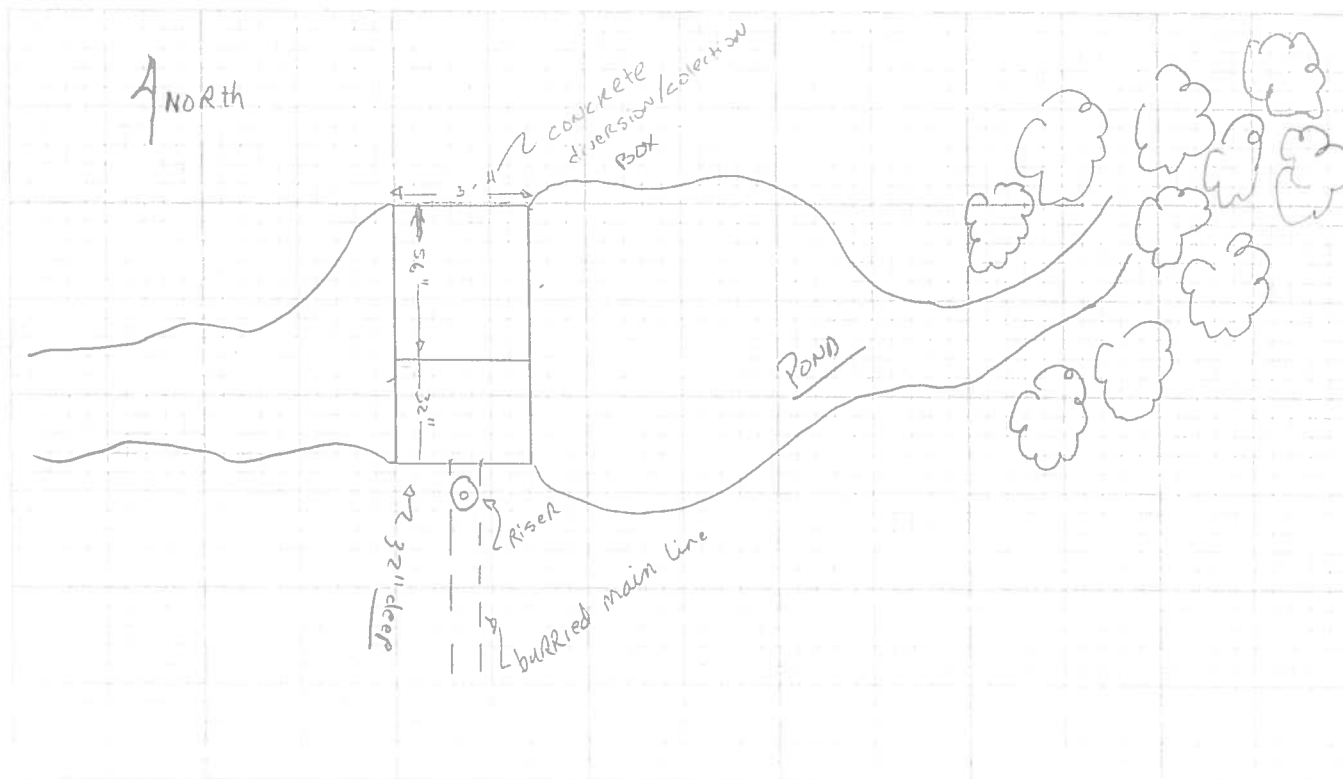
2. Other water rights with same point of diversion: _____

☐ Copies Attached

☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = _____

2. ☐ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

☐ Photo of Diversion and System Attached

(required for all but single household domestic groundwater, and stockwater.

☒ Aerial Photo Attached
(required for irrigation of 10 acres or more).

System Description (continued)

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Spring Flows down stream and is backed up into a pond by sliding a board into concrete box on north side then water fills south side of concrete collection box where main line exits box to 3-1/4 mile wheel lines (nozzles). Gravity Flow to wheel lines.

Spring is Not Flowing at capacity this year, only one 1/4 mile wheel line is being used when normally three 1/4 mile wheel lines are used.

☒ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
-	N/A	-	-	-	-

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

5. **Point(s) of Diversion:**

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			NW	SE	20	13S	45E	BEAR LAKE	map & onsite inspection

6. **Place(s) of Use:**

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	

Do not use this space

H. REMARKS AND OVERLAP REVIEW ANALYSIS

I suggest pitot gauge the 3-1/4 mile lines when spring is flowing at normal capacity.

Also, this spring provides water to 2300-sheep, 500-cows, & 80-horse at various times through out the year.

Note: There is another spring just above the springs indicated that flows into spring channel also; according to Fred, the overflow runs down into a small reservoir and then they flood irrigates through ditches.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Totals:				

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 |

J. AUTHENTICATION

Field Examiner's Name _____

Signature _____

Certification Date _____

Field Report Preparation Date _____

CONSULTANT SEAL

- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.



Photos
from
1988 field
exam.

