

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 67-2365

1. Owner: FRANK D +/OR TREVA LAND

Phone No. 355-2487

Current Address: 3430 BIG FLAT RD. MIDVALE ID. 83645

2. Accompanied by: FRANK LAND

EXAM. DATE: 8-3-88

Address: SAME

Phone No. _____

Relationship to Permit Holder: _____

3. Source: SPRINGS tributary to TENNISON CREEK

B. OVERLAP REVIEW

1. Other water rights with same place of use: 67-7292, 67-7281. BOTH

PERMITS EXAMINED AT SAME TIME.

☐ Copies Attached

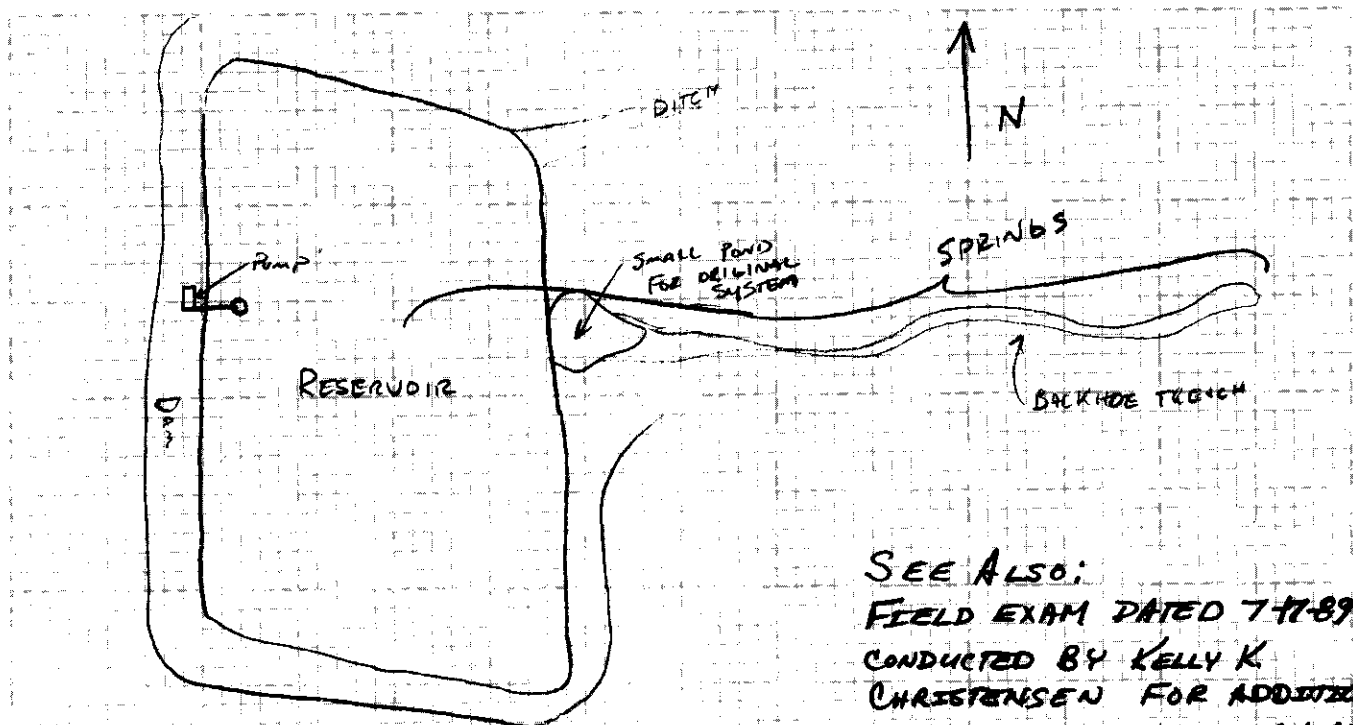
2. Other water rights with same point of diversion: 67-7281

☐ 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



SEE ALSO:
FIELD EXAM DATED 7-17-89
CONDUCTED BY KELLY K
CHRISTENSEN FOR ADDITIONAL
INFO. INCLUDED IS AN ANALYSIS
OF THIS PERMIT & PERMIT-67-7281

Scale: 1" = NO SCALE

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.)

SYSTEM WAS DEVELOPED BY DIGGING A BACKHUS TRENCH THROUGH WHERE SOME SPRINGS WERE, AND BUILDING A RESERVOIR BELOW THEM TO STORE THE WATER. A 60 HP CENTRIFUGAL PUMPS, PUMPS FROM THE RESERVOIR TO BOTH HANDLINES AND LINE LINES.

☐ 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
	G.E.	60	GJ6284016	CORNELL	17686

*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
	1		NE	NE	2	11N	2W	WASHINGTON	USGS QUAD + AERIAL PHOTO
	2		NW	NE	2	"	"		
			SE	NE	2	"	"		

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	
11N	2W	1	2	1	8	36									2				49
		2						.5	31		14	22		10.5	.5	1.5			80
																			Σ = 129 ac

REQUIRE AMENDMENT

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
SPRINKLER						
GAUGE						

2. Measurements:

4 WHISPLINES + 2 HANDLINES ALL 1/4 MILE 33 HEADS / 1/4 MILE
 @ 50 PSI 1 1/4" + 5/32" NOZZLES
 6.01 G.P.M X 33 HEADS X 10 LINES = 2.65 cfs

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

SPRINKLER: 2.65 cfs 129 ac x .02 cfs/ac = 2.58 cfs

2. Alternate Method for Checking Purposes:

THEORETICAL: $\frac{60 \text{ HP} \times 8.8 \times .8}{(2.31 \times 50) + 10} = 3.36 \text{ cfs} > 2.58 \text{ cfs}$
 O.K.

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 129 \text{ ac} \times 40 \text{ ata/ac} = 516 \text{ ata}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.58 \times 214 \text{ days} \times 1.9835 = 1,095 \text{ ata}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 516 \text{ ata}$

2. Volume Calculations for Other Uses:

STOCK WATER

425 HEAD X .0134 = 5.69 ata

APPLIED 2.7 ata

H. REMARKS AND OVERLAP REVIEW ANALYSIS

* OVERLAP

PERMIT #'S 67-7292 AND 67-7281 ARE BOTH FOR
STORAGE RIGHTS, AND THIS PERMIT IS FOR THE
ORIGINAL FILING ON THE SPRINGS.

- MR. LAND HAS ABOUT 425 HEAD OF STOCK,
SO BASED ON THIS I AM RECOMMENDING .12 cfs & 6.7 ac

- I RECOMMEND THAT AN AMENDMENT BE MADE TO INCLUDE
THE LAND SHOWN IN P.U. THAT IS NOT INCLUDED IN PERMIT.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4-1	11-1	2.58 cfs	516 afa
STOCK WATER	1-1	12-31	.12 cfs	6.7 afa
Totals:			2.7 cfs	522.7 afa

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 QUENTIN NESBITT

Signature Quentin Nesbitt

Certification Date _____

Field Report Preparation Date 8-27-88

CONSULTANT SEAL

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

67-2365



P.D.
SPRING



Pump

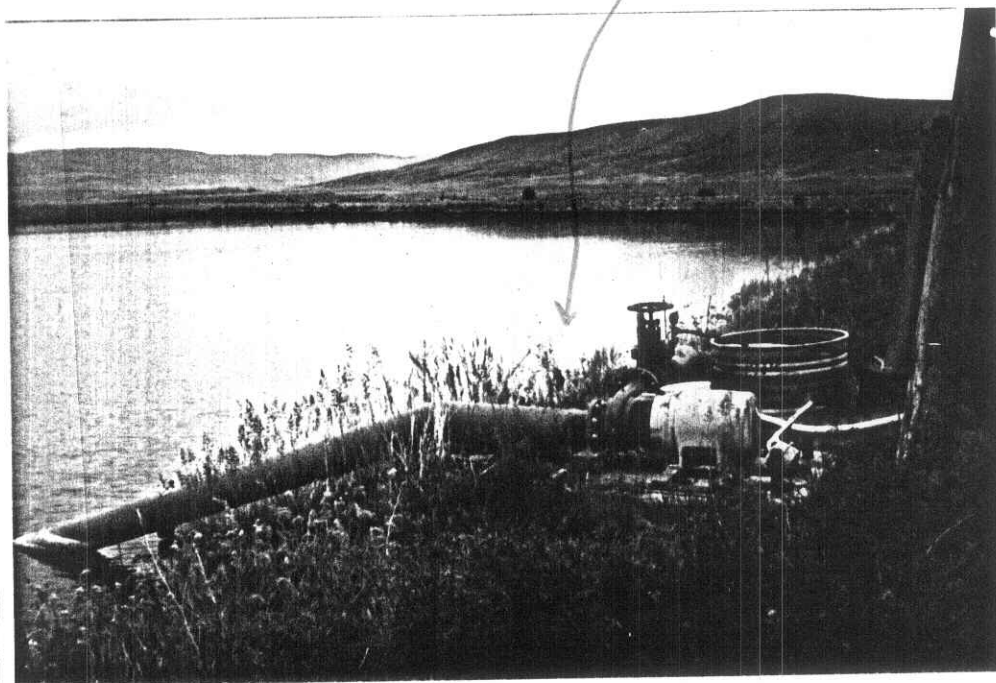
RESERVOIR

* FROM DAM SAFETY FILE
67-7281

67-7292
7281
2365

PUMP

D67-7281 (CONT)



6) PUMP ON DAM CRES

7) DOWNSTREAM SLOPE
AND TOE AREA ON
SOUTH END OF DAM

8) EROSION ON UPSTREAM
SLOPE OF SOUTH SIDE
OF DAM.

9) DIVERSION STRUCTURE
AND GATE ON TENNISON
CREEK. FLOW INTO
RESERVOIR CONTROLLED
BY A 12 IN. PIPE.