

NOV 22 2004

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

DEPARTMENT OF WATER RESOURCES

Pamela J. Carty Revocable Trust
Patricia B. Pittman Revocable Trust
c/o Pamela J. Carty

A. GENERAL INFORMATION

Permit No. 21-2126

1. Owner: ^{KCCW} Ada Carlson / ~~Deloris & Barnes~~ Phone No. ⁶⁰⁸ 522-3915
^{KCCW} ~~10307 NE 163rd Circle, Battle Ground, WA 98604~~
 Current Address: ^{KCCW} ~~191 N Lloyd circle, Id Falls Id 83402~~ ⁶⁰⁸ 3381 NW Panorama Dr
~~Bend, OR 97001-5461~~

2. Accompanied by: Wendell Gaston EXAM DATE: 9/24/2002

Address: 941 N 4300 E, Ashton Id 83420 Phone No. 208 652-3652

Relationship to Permit Holder: Son-in-law to Renter

3. Source: Unnamed Stream tributary to _____

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. Point(s) of Diversion:

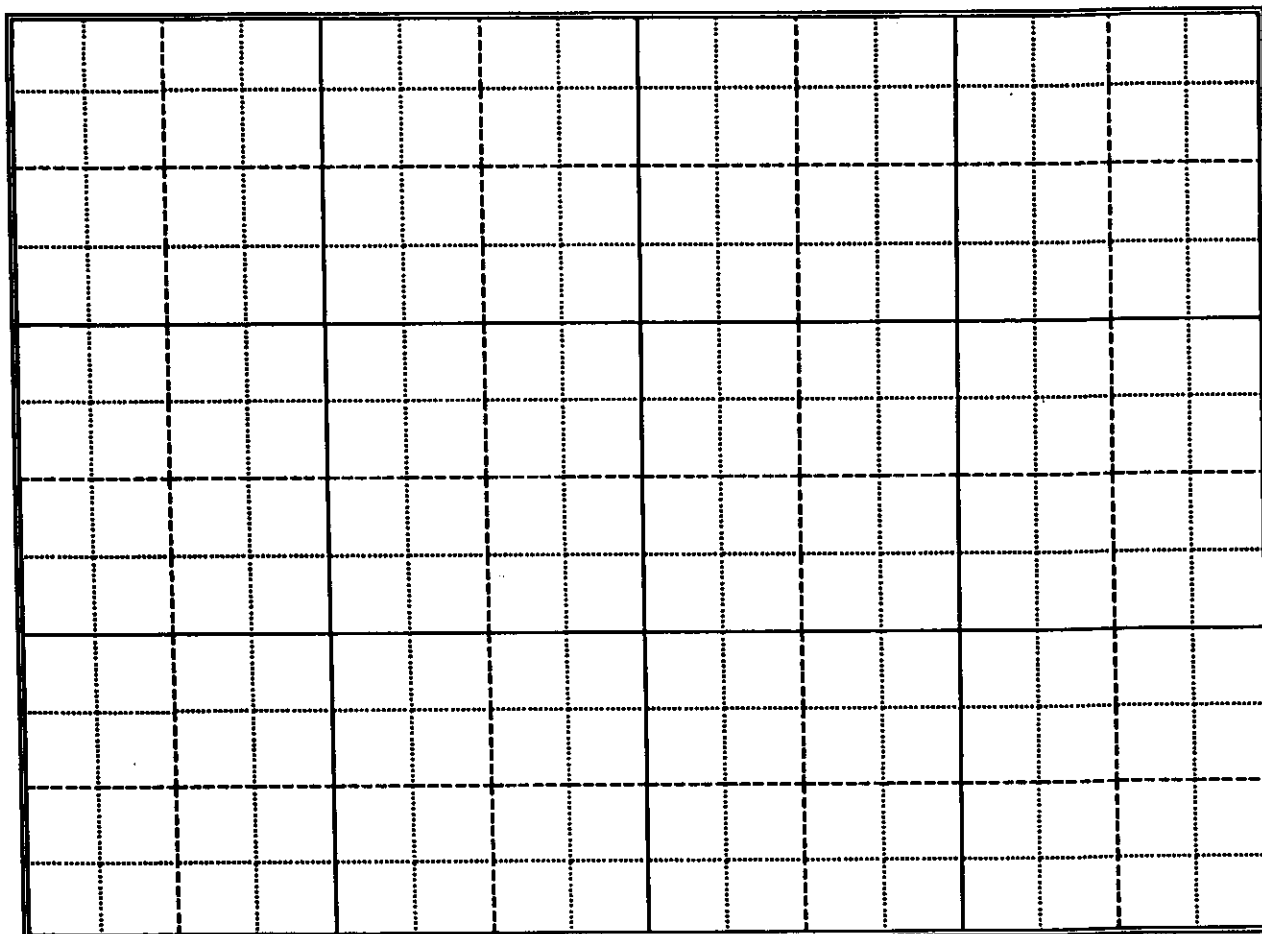
[illegible]

2. Place(s) of Use:

Indicate Method of Determination ARC VIEW

[illegible]

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



Scale: 1" = _____

_____ 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
	UNKNOWN				

*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: NONE Theoretical

E. NARRATIVE/REMARKS/COMMENTS

Portable tractor pump, portable mainline to handlines w/sprinklers
with an August 22, 1961 priority the use of this right would require rental of storage water.

According to permit, owner has 140 ac-ft storage in Fremont-Medison and six shares high water in Squirrel Creek

Note: Ada Carlson died in Spring of 2002. According to Deloris Burns, Deloris's sister will get the property.

CONTACT RENTER: Gene Dickason, P.O. Box 669, Ashton ID 83420
(208) 652-7387(h) ; (208) 542-3187 (cell)

According to Wendell Garton system has not been used for several years. In fact since the system is portable he does not have the tractor pump or system

The only evidence of a diversion was a depression (small ~~div~~^{div}) running from site 2 (R092418B) up the hill to the place of use that may have been used for the mainline.

The only evidence of the place of use is from the FSA ~~areal~~^{aerial} Cultivated portion of field within legal appears darker than the remaining portion of the cultivated fields.

No conditions on permit

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

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: $Q_{max} @ 0.02 cfs/ac = \frac{15.3 ac}{14.8} \times 0.02 cfs = 0.21 cfs$
 $\text{or } 0.296 cfs = 0.30 cfs$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{15.3 ac}{14.8} (3.5) = 53.6 afa$ $127.3 afa$
 $V_{D.R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.30 cfs (214) 1.9835 = 127.3 afa$
 $V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} = 53.6 afa$ $51.8 afa$ KCW

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		
IRRIGATION	4/1	11/1	~~53.6 afa~~ $0.31 cfs$ $0.30 cfs$ KCW	~~53.6 afa~~ $51.8 afa$ KCW
Totals:			~~0.31 cfs~~ $0.30 cfs$ KCW	~~53.6 afa~~ $51.8 afa$ KCW

2. Recommended Amendments

☐ Change P.D. as reflected above
☐ Change P.U. as reflected above

☒ Add P.D. as reflected above
☐ Add P.U. as reflected above

☒ None
☐ Other

Add condition to rent storage water annually

I. AUTHENTICATION

Field Examiner's Name

[Signature]

Date

9/24/2002

Reviewer

Date

SEAL

THEORETICAL PUMP FLOW CALCULATIONS

$$Q_{cfs} = [(Hp) (8.814) (Eff.)] \div [Lift + (psi \times 2.308)]$$

ASSUME

Hp = Horsepower = 7hp

Eff. = Efficiency = 70% (Usually 70.0%)

Lift = Static Water Level + Draw down

Static Water Level = _____ ft.

Assumed Draw down = _____ ft.

Lift = _____ ft.

OR

Measured Dynamic Water Level = 3 ft.

ASSUME Psi = Operating Pressure = 55 psi

$$Q_{cfs} = [\frac{7}{HP} \times 8.814 \times \frac{0.70}{EFF}] \div [\frac{3}{LIFT} + (\frac{55}{PSI} \times 2.308)]$$

$$= [43,886] \div [129.94]$$

$$Q_{cfs} = \underline{0.33} \text{ cfs}$$

Assuming a 7hp tractor pump @ 70% efficiency and 55psi

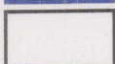
$$Q = 0.33 \text{ cfs} \quad @ \quad 0.02 \text{ cfs/gc} \quad Q_{LIMITED} = 0.31 \text{ cfs}$$

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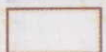


⊕ Points of Diversion

-  212126pou.shp
-  Sections
-  GCDB08N44E GCDB

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-  Acpu212126.shp
-  Posnpnt.dbf
-  Gcdb_section.shp
-  T08n44e.shp

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Site #1: According to Wendell Gaston (leases ground w/Gene Dickenson) this is one of the places where the portable tractor pump diverted water.



Site #2: According to Wendell Gaston (leases ground w/Gene Dickenson) this is the second site where the portable tractor pump diverted water.

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