

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-7528

Exam Date: 06/19/2019

1. Current Owner:

DUNFEE FAMILY TRUST
5192 ESTASI ST
LAS VEGAS NV 89135-3273

2. Accompanied by: Clive Dunfee, member of Dunfee Family Trust and farm operator

Phone No: 208-589-9423

Address: 67 Cottonwood Lane, Challis, ID 83226

Relationship to permit Holder: Permit holder as a member of the Trust

3. SOURCE:

GROUND WATER

Method of Determination: Made note of the well on the property. No surface source nearby. When Mr. Dunfee turned on the well and the faucet, water came out.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
72-10480, 72-10481, 72-10482	Salmon River	Irrigation	Decree

Comments: Gini Ditch Company rights irrigate the adjacent pivot.

2. Other water rights with the same point-of-diversion: possibly 72-10287

Water Right No.	Source	Purpose of Use	Basis
72-10287	Ground water	Stockwater	Decree

Comments: In speaking with Mr. Boge, the current owner of right 72-10287, he maintains that he never used this well for stockwater, and Mr. Dunfee said that the water for the well has only been used as described in this report. It is unclear, but unlikely, that right 72-10287 is, or was, ever diverted from this POD.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE¼ SW¼, Sec. 3, Twp 13N, Rge 19E, B.M. CUSTER County

Method of Determination: ArcMap aerial imagery and site visit.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	19E	3												0.3					0.3

Total Acres: 0.3

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	19E	3												X					

PLACE OF USE: FIRE PROTECTION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	19E	3												X					

Method of Determination: ArcMap aerial imagery and site visit.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
NA					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Bucket & Stopwatch						

2. Measurements: There was not a place on the pipe to make a measurement with a flowmeter, so we did three 'bucket and stopwatch' tests to measure flow. The three times taken were: 11.35 sec, 9.71 sec, and 10.62 sec, for an average of 10.56 sec. To calculate the flow rate, $Q = 60/10.56 \times 5 = 28.4$ gpm or 0.06 cfs.

Additional Computation Sheets Attached**E. FLOW CALCULATIONS**

Measured Method: $Q = 60$ (seconds in a minute)/number of seconds to fill 5 gallon bucket x 5 (gallons in bucket)

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.3 \times 3.5 = 1.1 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.01 \times 1.9835 \times 214 = 4.3 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.1 \text{ AF}$$

2. Volume Calculations for Other Uses:

No volume assigned to fire protection per Beneficial Use Examination rules. Stockwater volume calculated by multiplying the number of cattle (100) by the estimated use per day (12 gallons) by 365 days in the year and dividing by 325850 gallons in an acre-foot. $\text{Volume} = 100 \times 12 \times 365 / 325850 = 1.34 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 72-7528 was completed on June 19, 2019 with Clive Dunfee, who is a member of the Dunfee Family Trust, present. Water from the well is piped in two directions. A pipeline carries water about 90 feet north to a water trough, while other pipes carry water south, where a row of trees and landscaping receives irrigation on an infrequent basis. In the event of a fire, valve on the south end of the tree row allows water to run into a small (about 20' diameter 3' deep) pond for the fire protection portion of the permit, where, in the event of a fire, water would be pumped out by fire engines or a small pump.

The permit parameters were greatly reduced because the planned subdivision was never developed. According to Mr. Dunfee, the power and phone systems were installed, but no water lines were ever brought out to the subdivision. The only uses developed were the stock trough, the fire protection pond, the 0.3 acres of irrigation, and a faucet by the well house which is also used for irrigation with a hose.

Mr. Dunfee said he runs about 100 head of range cattle which use water for most of the year, so the stockwater volume was calculated from that figure. Additionally, the standard season of use has changed since permitting, so the new standard has been assigned.

I am recommending an irrigation flow rate of 0.01 cfs (reflecting an acceptable small acreage rate of 0.03 cfs/acre), a volume of 1.1 AF; a stockwater flow rate of 0.04 cfs, a volume of 1.3 AF; a fire protection flow rate of 0.06 cfs, no volume; and an overall flow rate of 0.06 cfs, volume of 2.4 AF.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	4/01 to 10/31	0.01 CFS	1.1 AF
STOCKWATER	1/01 to 12/31	0.04 CFS	1.3 AF
FIRE PROTECTION	1/01 to 12/31	0.06 CFS	

Totals: 0.06 CFS 2.4 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Jim Bitzenburg Date 6-25-19
Jim Bitzenburg - Senior Water Resource Agent, Southern Region

Reviewer _____ Date _____



The point of diversion (well).

Stockwater place of use.



72-7528 Dunfee Land Co., LP



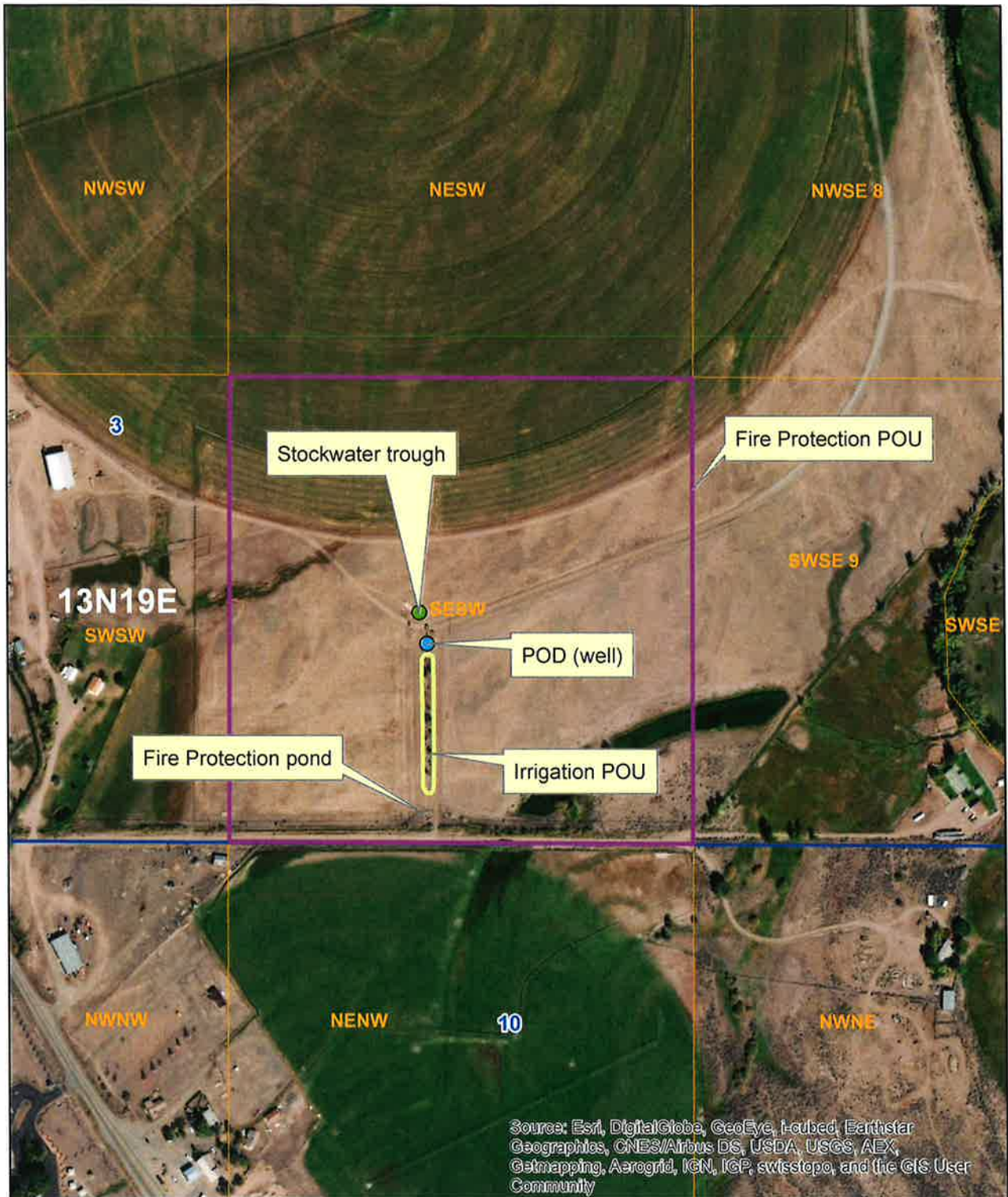
Irrigation Place of Use

Small pond intended for fire protection use.



72-7528 Dunfee Land Co., LP

72-7528 System Diagram



0 0.045 0.09 0.18 Miles

