

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-7748
Exam Date: 08/30/2000

1. Current Owner:
EMMY LOU FAIRFIELD 831 CURLEY CREEK RD MOYIE SPRINGS ID 83845-5065
2. Accompanied by: Richard Fairfield
Phone No:
Address:
Relationship to permit Holder: Husband to permit holder

3. **SOURCE:**
CURLEY CREEK

Tributary
KOOTENAI RIVER

Method of Determination: DRG, Arcmap, and Google Earth

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
98-4090	Springs	Domestic & Stockwater	

Comments: No overlap concerns

2. Other water rights with the same point-of-diversion: **NO Overlap**

Water Right No.	Source	Purpose of Use	Basis

Comments: None

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

CURLEY CREEK SW¼ NE¼, Sec. 22, Twp 62N, Rge 03E, B.M. BOUNDARY County
CURLEY CREEK NW¼ SE¼, Sec. 22, Twp 62N, Rge 03E, B.M. BOUNDARY County

Method of Determination: Maps and GPS. Current POD located at -116° 03.350, 48° 42.565

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	
62N	03E	22			8.7					10.0						14.0	2.9		35.6

Total Acres: 35.6

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	
62N	03E	22			X					X						X			

Method of Determination: Arcmap and Google Earth.

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 GALLON BUCKET						

2. Measurements: Measurement taken during original exam 8/30/2000
5 gallon bucket filled in 5 seconds is equal to 60 gpm or 0.13 cfs (See original field exam in backfile)

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 35.6 \text{ AC} \times 3.0 \text{ AF} = 106.8 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \text{ CFS} \times 214 \times 1.9835 = 55.2 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 55.2 \text{ AF}$$

2. Volume Calculations for Other Uses: Stockwater

$100 \text{ head of cattle} \times 12 \text{ gpd} \times 365 \text{ days} = 438,000 \text{ gpy} / 325,850 = 1.3 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

Northern Region was tasked with licensing permits that had been examined during the late 1990's and early 2000's. This file required a 2nd field exam to try and verify the diversion rate, place of use, and annual volume. The original field exam was performed on 8/30/2000 and was conducted by an unknown person because the exam was not signed.

The 2nd field exam was performed on 7/19/2017 with Richard Fairfield. Mr. Fairfield had stated he had had sold his big gun the previous year and was hoping to acquire or rent a new for any future use. This field exam unfortunately could not verify the diversion rate found on original exam. In the original exam, it stated that the applicant would move his gas pump around in creek based upon where he would be irrigating. On my current exam, he had made a permanent location with pipe into creek with a riser where he would hook the pump into. He then had buried mainline in between the two fields that he would then hook the big gun onto. Mr. Fairfield had just made a more permanent point of diversion since the original field exam which was more reliable and less work for him. Because the original application listed two points of diversions in the SWNE and NWSE from Curley Creek, it was decided those should both be licensed because he used those during original exam. The permanent point of diversion was located in the NWSE and a GPS location was taken and is identified as the diversion point in the NWSE.

The original field exam stated a 5 gallon bucket test was taken from the big gun and found to be 60 gpm or 0.13 cfs. The exam and photos only showed 1 gun running and made no reference to multiple guns. Based on conversations with Mr. Fairfield, it is believed that only one gun was owned. The Northern Region decided to accept the original field examiners recommendation for diversion rate because no current use was occurring and could not be verified. The original exam recommended 129 acres of irrigation use. During the follow-up exam, Mr. Fairfield sketched what he had and was irrigating. During license review, 1998 aerial photography was used to try and verify acreage irrigated. This year photography almost matches up with the 1999 submittal of the statement of completion for this right. There was a greener than average pattern in the fields that matched up with what Mr. Fairfield had sketched on my map. It was traced out using Arcmap and was equal to 35.6 acres of irrigation. It was decided to not take the recommendation of the original field examiner and go with aerial photography proof of what was being irrigated during original exam. I am sure it was tough to make a recommendation for acreage prior to aerial photography.

The permit also included ponds and various uses to the ponds and from the ponds. There was in fact two ponds which I felt were connected by a low area that made water common during high water times of the year. The applicant said he did not pump from the ponds and there was no diversion to storage occurring. The original field examiner stated the ponds were instream but no proof of that could be found during the 2nd exam. I believe the ponds were fed by groundwater or possibly springs. It was discussed by the Northern Region about how to proceed with the ponds on licensing. There was no correct source listed for the source of water for the ponds on the permit and the ponds do show up on the DRG as being natural ponds. The applicant's cattle did drink from the ponds, but there was no diversion occurring from the ponds. It was decided to leave the ponds off of this license because they appear to be natural ponds and there is no need to have a water right for drinking from that source. All components of the permit with reference about storage, from storage, and diversion to storage will be removed from the license.

The applicant did have 100 head of stock scattered all over their property. There were no clear stockwatering areas around the creek or from the creek. It appeared at time of 2nd exam that the stock mainly just drank out of the creeks and ponds on the property. There is an old statutory claim 98-4089 for stockwater from a spring in the area where the home and barns are located. The original examiner made no reference about stockwatering in the written description but had given stockwater a 0.01 cfs with 0.8 acre-feet recommendation. At this time, the Northern Region feels if the applicant used the pump to put water into a tank somewhere near the points of diversions it should be given credit. Because the pump can divert 0.13 cfs and the permit was issued with a stockwater rate of 0.04 cfs, the license will be issued for 0.04 cfs with an annual volume of 1.3 acre-feet. The shape for stockwater will identify the 40 acre tracts around the points of diversions and include a corner of applicant's property in the SENW.

Conditions 26A, 03A, and reference to stockwater will be removed from conditions on license. Conditions X15 and R62 will added to license to reference a fish screen and irrigation limitation. The diversion rate of this right will be the true limitation of this right but will put on in case future appropriations are sought on the property. There are two rights that appear to have a common overlap but do not effect this right. Statutory Claim 98-4090 describes a point of diversion in the SWNE that is then piped 900 feet to the SENW for domestic and stockwater use. There are no homes located on the applicant's property but there is a home on the adjacent property and the year built matches the date claimed. Statutory Claim 98-4089 is for domestic and stockwater use from a spring but does not have any overlap with this current right. This Claim is being referenced because it is located on the applicant's property. It is challenging to know exactly how these Statutory Claim's work because they have not been adjudicated and are not forecast to be. There are numerous other water rights that show a common overlap with this right but they are just the municipal service area of Curley Creek Water Assn. There does not appear to be any overlap concerns with this right. This license will be issued with a diversion rate of 0.13 cfs with no annual volume. The stockwater use of this right will have an annual volume of 1.3 acre-feet and the irrigation limit will be the diversion rate itself.

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	04/01 to 10/31	0.13 CFS	
STOCKWATER	1/01 to 12/31	0.04 CFS	1.3 AF

Totals: 0.17 CFS

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

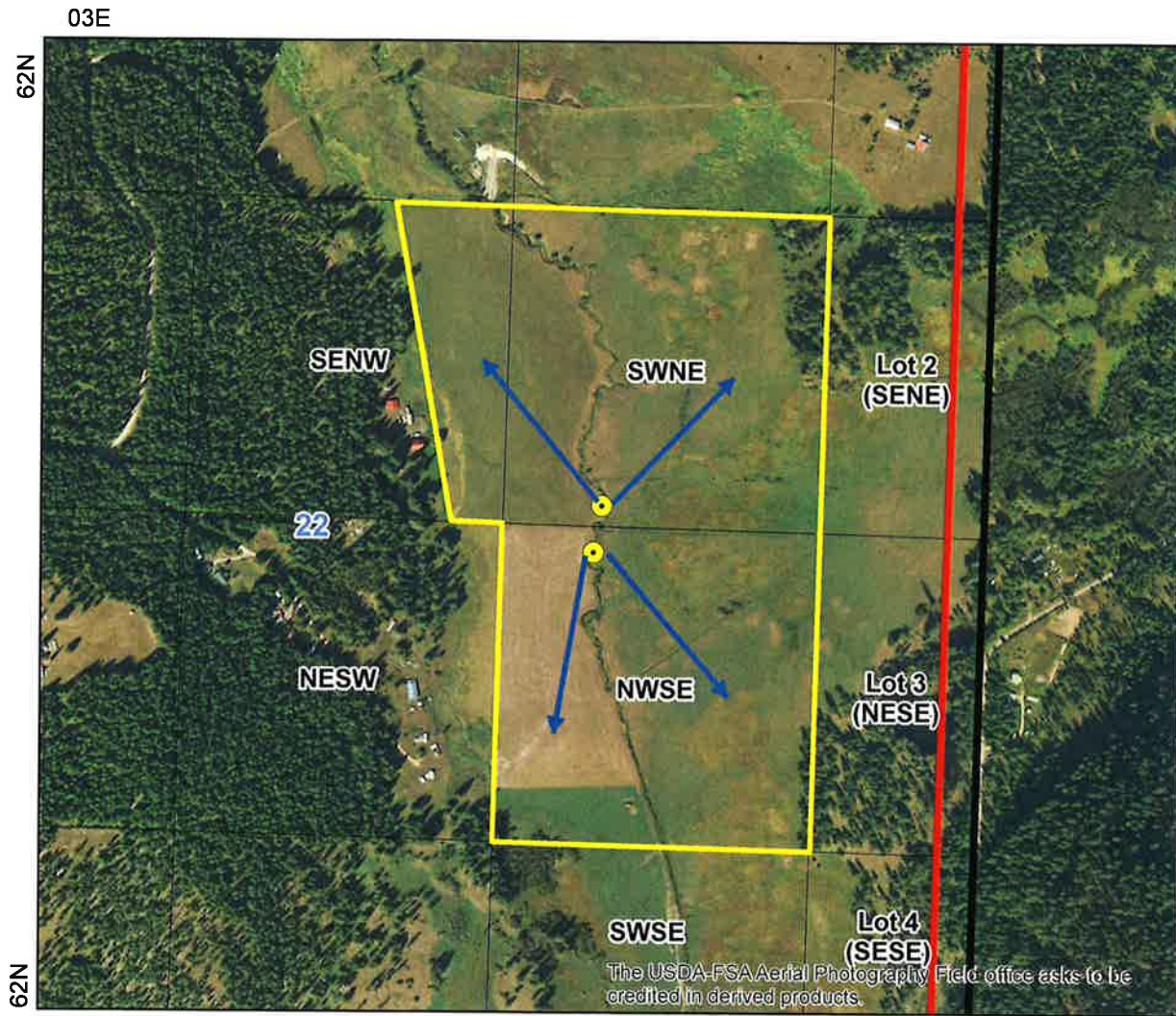
Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 2/21/2019

Reviewer Douglas Jones P.E. Date 2/23/2019

State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7748

STOCKWATER / SYSTEM DIAGRAM



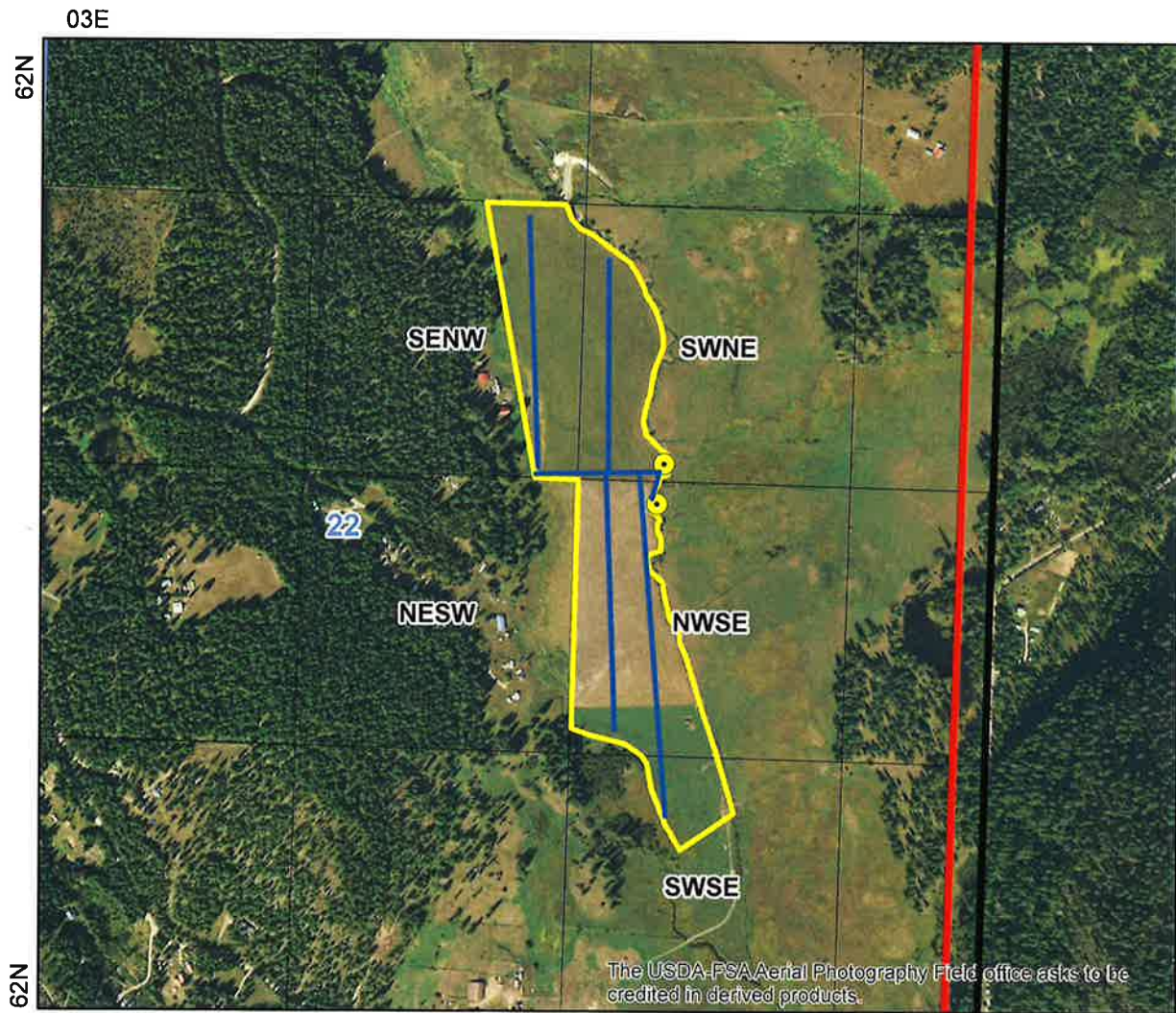
- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.075 0.15 0.3 Miles



State of Idaho
Department of Water Resources
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IRRIGATION / SYSTEM DIAGRAM

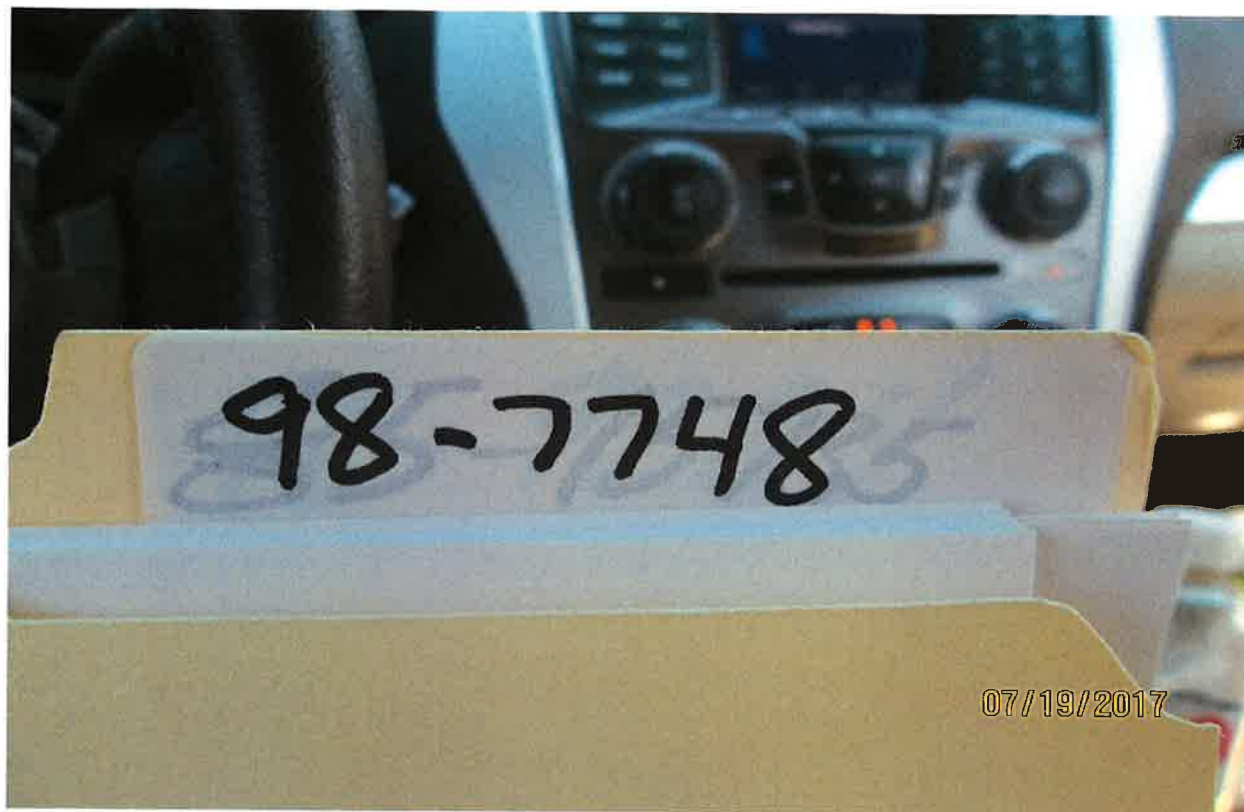


03E

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.1 0.2 0.4 Miles





Livestock.



Livestock.



Point of diversion in Curley Creek.



Riser on the creek bank next to point of diversion.



Another riser along main line.



Irrigation place of use.





Irrigation place of use.





Ponds that were determined to be natural and not need a water right.



95-07741



Pump



pu



pu



Gun



Pond 1



Pond 2



Pond 3