

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11379

Exam Date: 6/21/2016

1. Current Owner:
GEORGE R ZUBER 19950 W RIVERVIEW DR POST FALLS ID 83854 (208) 773-0638

2. Accompanied by: Mrs. Zuber

3. **SOURCE:**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-14428 (Adjudication Recommendation)
2. Other water rights with the same point-of-diversion: 95-14428

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

GROUND WATER NE¼NW¼ Sec. 18, Twp 50N, Rge 05W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD location at 117° 00.918, 47° 41.163 D0003185 (A0015432)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	18					1.2												1.2

Total Acres: 1.2

Method of Determination: Google Earth and Arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X

Indicate weir size/pipe as applicable.

X

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

X

Aerial Photo Attached (required for irrigation of 10+ acres).

X

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
D0003185	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: 5 GALLON BUCKET TEST:

5 GALLON BUCKET FILLED IN 12 SECONDS:

5 GAL / 12 SEC = 0.416 X 60 SEC = 25 GPM OR 0.06 CFS

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: THEORETICAL PUMPING EQUATION
 ESTIMATES A 2 HP PUMP COULD PRODUCE AROUND 25 GPM WITH PSI SET AT 40 AND PUMP AT DEPTH OF LESS THAN 170 FEET.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.2 \text{ AC} \times 3 \text{ AF} = 3.6 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 246 \times 1.9835 = 19.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 3.6 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Mrs. Zuber showed a well with unknown pump size. Applicant was unsure where control boxes might be and her husband Mr. Zuber was unavailable. I attempted to locate where control box would be for pump and could not find it. Frost free hydrant next to well allowed me to perform 5 gallon bucket test to determine flow rate. 5 gallon bucket test filled in 12 seconds which is equal to 25 gpm or 0.06 cfs. I asked Mrs. Zuber where the other well was located at and she said they no longer used that well when D0003185 was drilled. 2nd well will be removed at licensing to show only 1 source. Sprinklers from frost free hydrants were used for the irrigation around home and barn. Irrigated areas were grass, gardens, and flower beds. Google Earth images were used to see extent of irrigation back in 2011 when proof was submitted. Areas were consistent with what was being irrigated at time of exam. License will be issued for 0.04 cfs for the irrigation of 1.2 acres with annual volume of 3.6 acre feet. License will use condition 928 to avoid any overlap with adjudication recommendation 95-14428. Recommendation 95-14428 is for domestic for 1 home with up to 13,000 gallons per day which could include up to 1/2 acre of irrigation.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.04 CFS	3.6 AF
<u>Totals:</u>		0.040 CFS	3.60 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

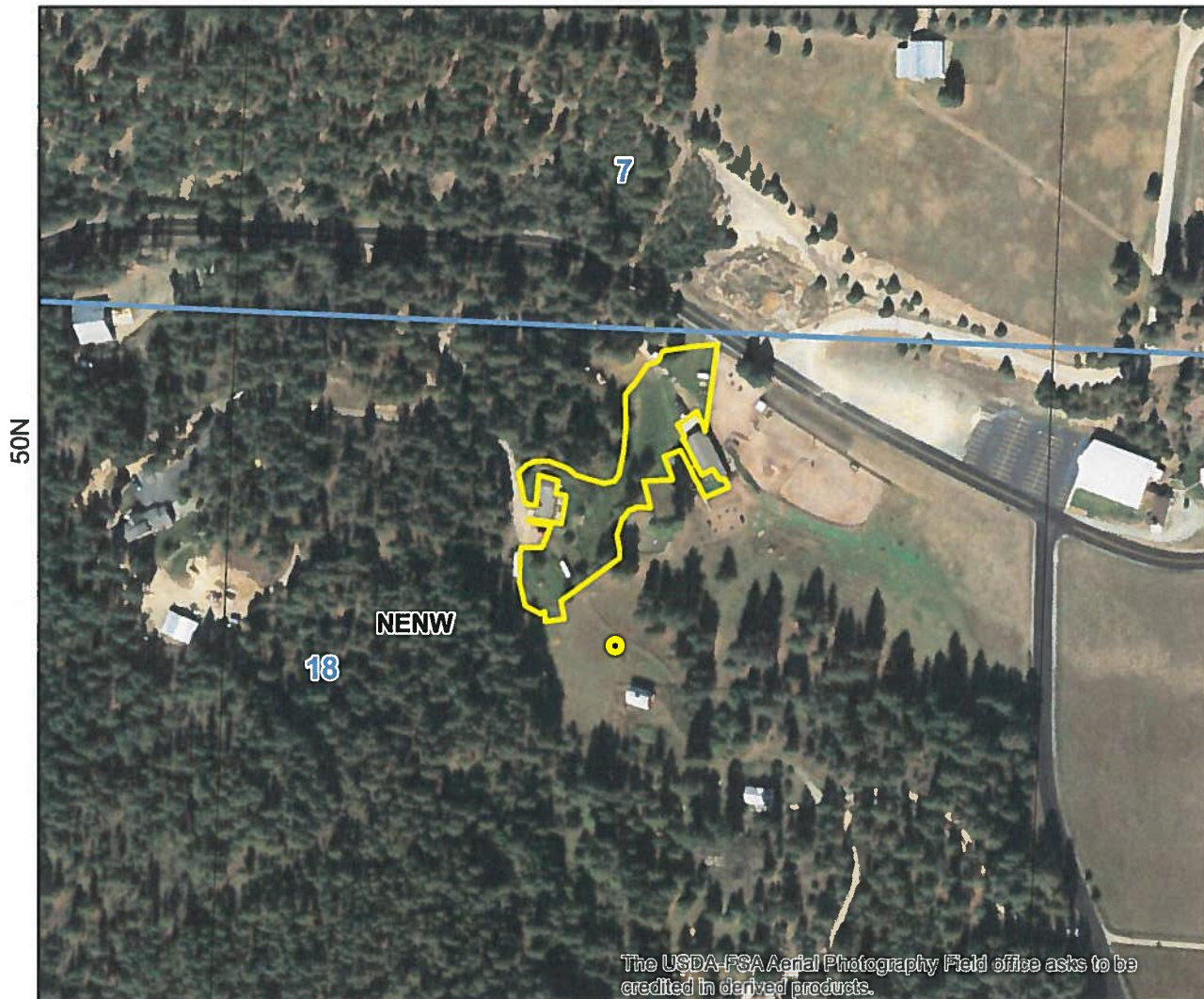
Field Examiner's Name Adam Fiedor Date 3-2-2017

Reviewer Morgan Case Date 3/9/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-11379

IRRIGATION

05W



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

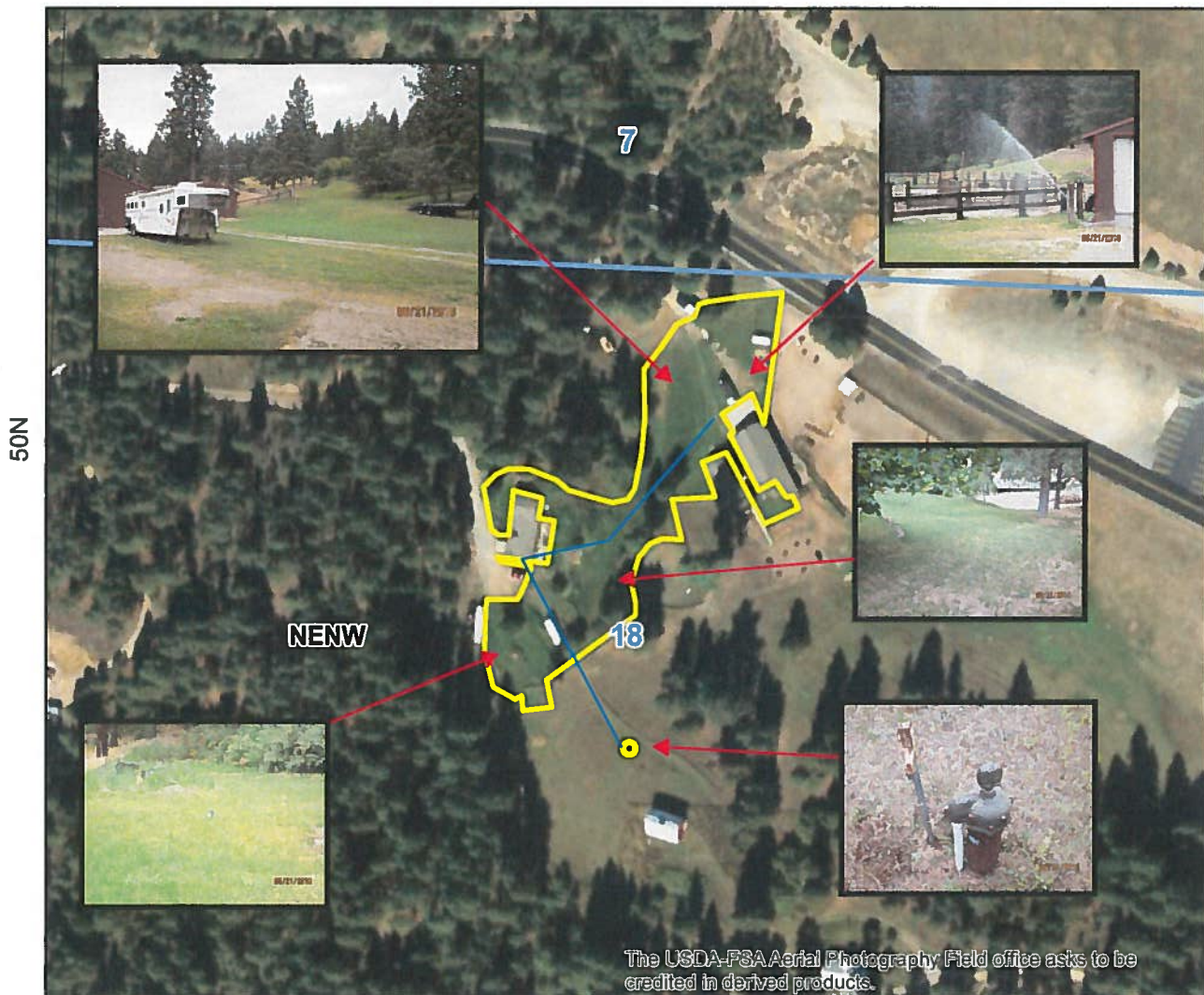
0 0.035 0.07 0.14 Miles



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SYSTEM DIAGRAM

05W



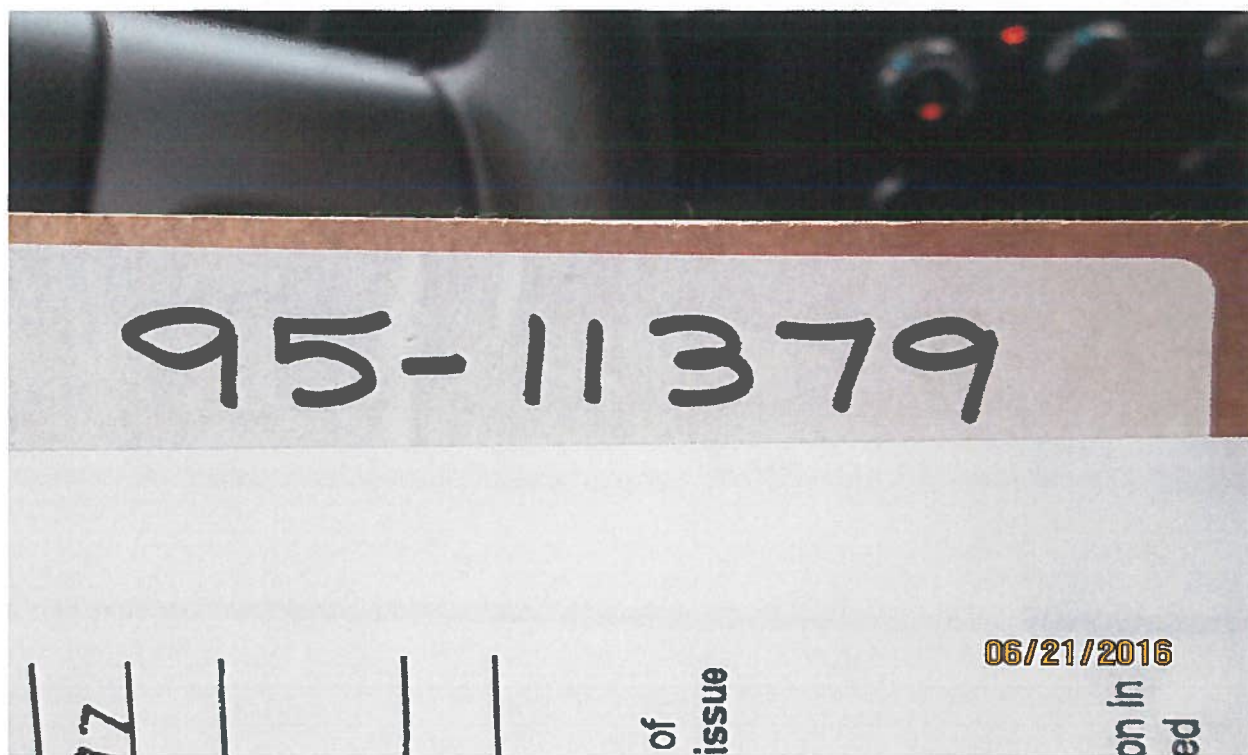
0 0.0225 0.045 0.09 Miles

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



Google Earth image from August of 2011 showing irrigation around house and barn.





Well D0003185 given IDWR tag A0015432. Unknown pump size, 5 gallon bucket showed 25 gpm.



Well ID D0003185.

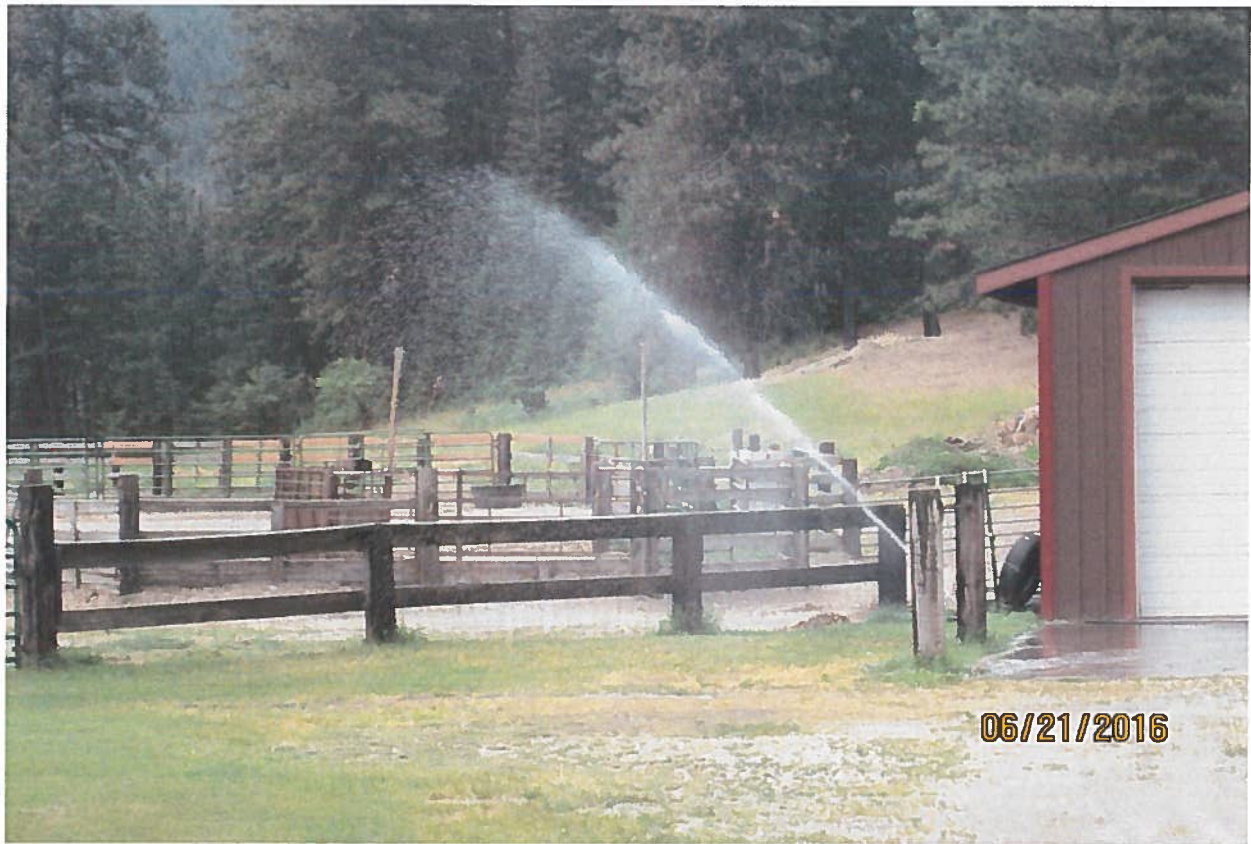




Hose and irrigation near house.



Sprinkler in grass near home.



Sprinkler down near barn.



