

A. GENERAL INFORMATION

Exam Date: 6/20/2008

1. Current Owner: CHAD DE VORE
And TIM KIEFER
And TERRY KIEFER
PO BOX 1030
RATHDRUM ID 83858
(208)687-5239
2. Accompanied by: CHAD DE VORE, TIM KIEFER AND TERRY KIEFER
Phone No: SAME AS ABOVE
Address: SAME AS ABOVE
Relationship to Permit Holder: SELF

TRIBUTARYSPRINGS
UNNAMED STREAM

SINKS
SINKS

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. LOCATION OF POINT(S) OF DIVERSION:

SPRINGS NW¼SW¼NE¼ Sec. 35, Twp 52N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS

2. **PLACE OF USE:** RECREATION STORAGE

[illegible]

PLACE OF USE: IRRIGATION STORAGE

[illegible]

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
52N	05W	35	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	12.0
					11.0	1.0													

Total Acres: 12

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
52N	05W	35	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	12.0
					11.0	1.0													

Total Acres: 12

PLACE OF USE: RECREATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
52N	05W	35	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
					X	X													

DIVERSION TO STORAGE same as RECREATION

Method of Determination:

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
_____	_____	_____	_____	_____	_____	_____

2. Measurements:

Spring #1 Spring #2 Stream
 4 gal in 30 sec 4 gal in 30 sec flowmeter 105 gpm = 0.24 cfs
 8 gpm = .02 cfs 8 gpm = 0.02 cfs

Channel from both springs is capable of .1 cfs

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 12 \times 3 = 36$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .24 \times 246 \times 1.9835 = 117.1$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 36 \text{ AF}$$

2. Volume Calculations for Other Uses:

Recreation

$$.04 \times 365 \times 1.9835 = 29.0 \text{ AF}$$

Storage
size depth

$$.3 \times 6 = 1.8 \text{ AF}$$

$$+ 10.2 \text{ AF evap + seep}$$

$$12 \text{ AF total}$$

Irrigation	36 AF
Recreation	29 AF
Storage	12 AF
<u>total</u>	<u>77 AF</u>

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM HAS 2 SPRINGS THAT FLOW INTO A MAN MADE DITCH FROM THE SPRING TO THE POND. IT ALSO HAS A DIVERSION FROM A UNNAMED STREAM. THEY PULL FROM THE STREAM AND FROM THE POND FOR FLOOD IRRIGATION OF 12 ACRES. THE POND IS ALSO USED FOR RECREATION WITH A CONSTANT FLOW FROM THE SPRINGS. THE 2 SPRINGS HAVE A FLOW OF 0.04 CFS COMBINED BUT THE SPRINGS CAN PRODUCE OVER 0.1 CFS DURING THE SPRING RUNOFF. THE POND SIZE IS 1.8 AF WITH EVAPORATION AND SEEPAGE THE POND SIZE IS 12 AF. THE MAIN IRRIGATION IS FROM THE UNNAMED STREAM WHERE THEY PULL 0.24 CFS FOR FLOOD IRRIGATION UNTIL THE STREAM IS DRY THEN THEY PULL FROM THE POND. THEY HAVE STOCK ON THE PROPERTY BUT THEY DO NOT WATER THE STOCK FROM THIS SYSTEM THEY WATER THE STOCK FROM A DOMESTIC WELL.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
RECREATION STORAGE	01/01 to 12/31		12.00 AF
IRRIGATION STORAGE	03/15 to 11/15		12.00 AF
IRRIGATION	03/15 to 11/15	0.240 CFS	36.00 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		12.00 AF
RECREATION	01/01 to 12/31	0.040 CFS	29.00 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.100 CFS	
<u>Totals:</u>		0.340 CFS	77.00 AF

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

I. AUTHENTICATION

Field Examiner's Name

Date

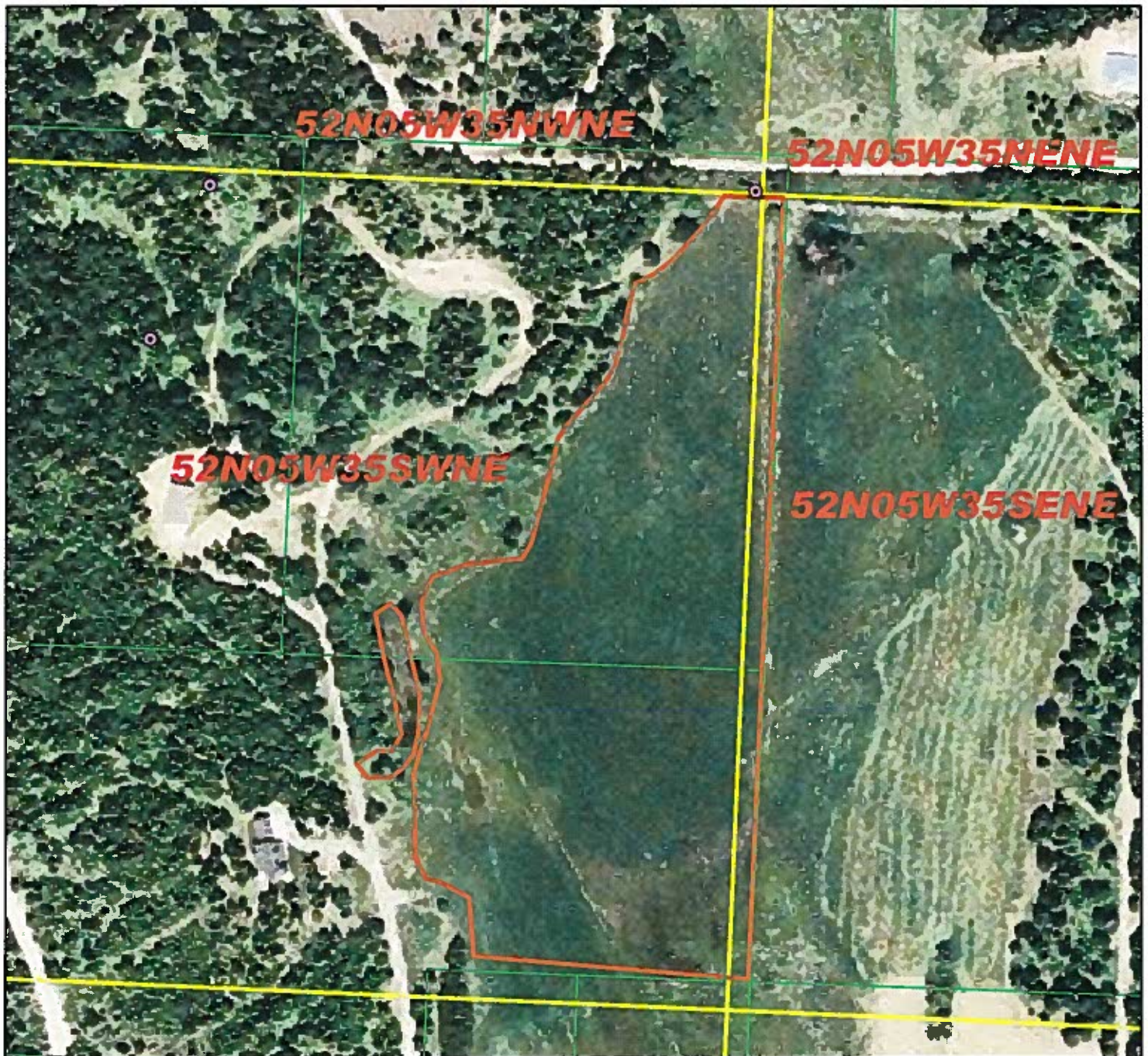
9-2-08

Reviewer

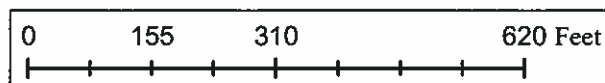
Date

9/19/8

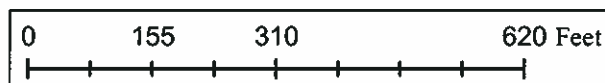
95-8956



⊙	Right POD
	Right POU
	Sections
	QQ
	Taxlots



95-8956





FLOOD IRRIGATION
LINES.JPG



IRRIGATION FROM
STORAGE.JPG



IRRIGATION PLACE OF
USE 1.JPG



IRRIGATION PLACE OF
USE 2.JPG



SPLITTER FOR FLOOD
IRRIGATION.JPG



SPRING POINT OF
DIVERSION 1.JPG



SPRING POINT OF
DIVERSION 2.JPG



STORAGE AND
RECREATION 1.JPG



STORAGE AND
RECREATION 2.JPG



SYSTEM.JPG



UNNAMED STREAM POINT
OF DIVERSION.JPG

95- 8956



95-8956





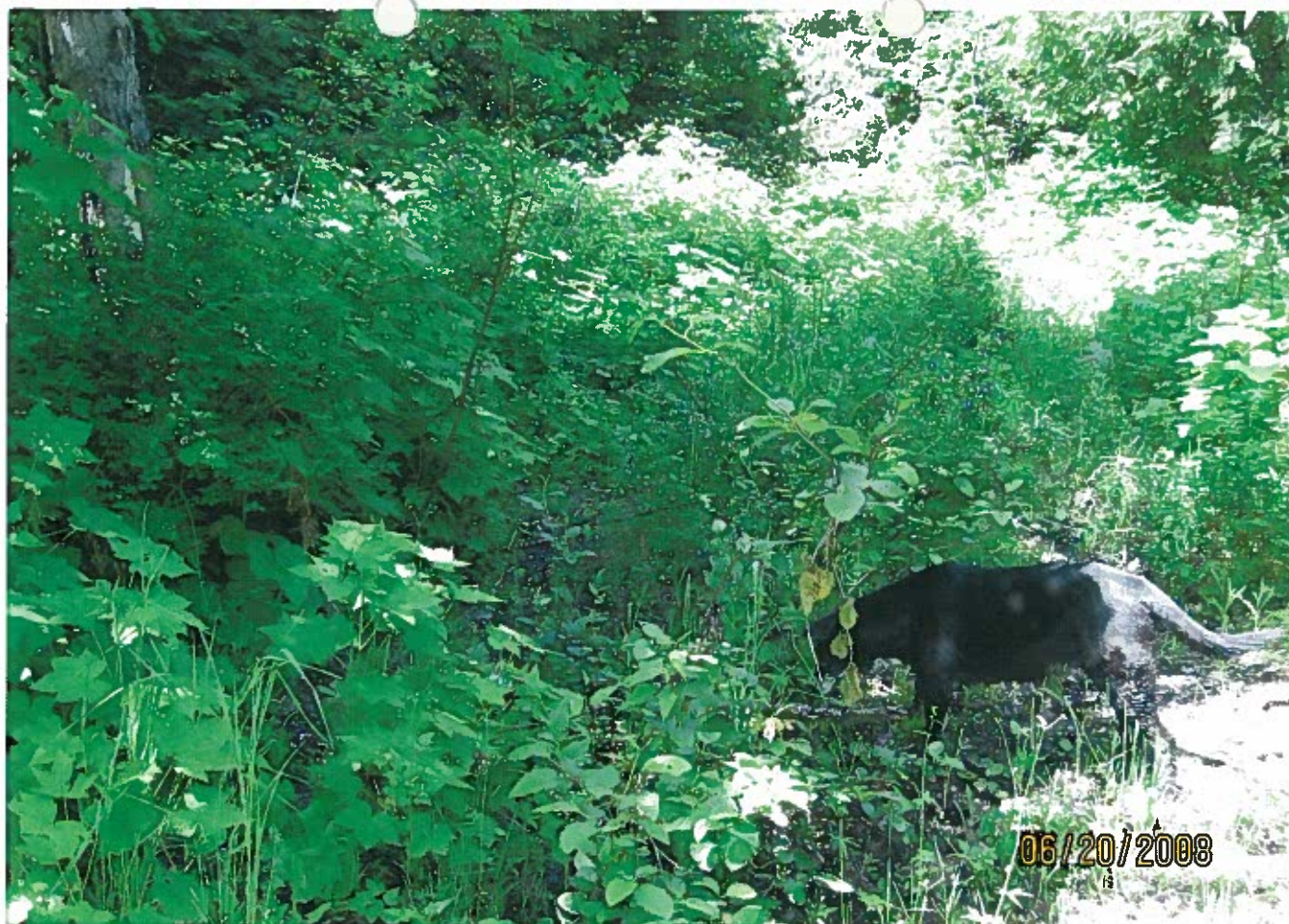
95-8956





95-8956





95-8956





95-8956





95-8956