

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11515

Exam Date: 4/30/2015

1. Current Owner: COLIN PALMER
15252 N RISING STAR RD
HAYDEN ID 83835
(208) 660-5176

2. Accompanied by: Colin Palmer

3. SOURCE

SPRING

TRIBUTARY

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:**

SPRING SW1/4SE1/4SE1/4 Sec. 27, Twp 52N, Rge 03W, B.M. KOOTENAI County

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

2.

PLACE OF USE: FIRE PROTECTION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N 03W 27																X	
52N 03W 34	X			X													

PLACE OF USE: FIRE PROTECTION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N 03W 34				X													

PLACE OF USE: RECREATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N 03W 34				X													

DIVERSION TO STORAGE same as RECREATION STORAGE

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

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</u> <u>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</u> <u>Size</u>
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N/A

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: 5 GALLON BUCKET TEST. 5 GAL / 35 SEC = 0.14 X 60 SEC = 8.4 GPM OR 0.02 CFS

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEET

G. NARRATIVE/REMARKS/COMMENTS

POND DIMENSIONS WERE 40FT X 25FT X 4FT DEEP. POND WAS LINED AND POND ANALYSIS SHEET REFLECTS NO SEEPAGE. GRAVITY FEED BY PIPE FROM SPRING. PULLED DISCHARGE PIPE OUT OF POND AND MEASURED DIVERSION RATE AT 8.4 GPM. FIRE PROTECTION WILL BE ISSUED BECUASE IT CAN BE GRAVITY FED DOWN HILL TO HOUSE. POND DID HAVE FISH PRESENT WITH AERATION SYSTEM IN PLACE.

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>
DIVERSION TO STORAGE	01/01 to 12/31	0.020 CFS	
FIRE PROTECTION	01/01 to 12/31	0.020 CFS	
FIRE PROTECTION STORAGE	01/01 to 12/31		0.30 AF
RECREATION STORAGE	01/01 to 12/31		0.30 AF
<u>Totals:</u>		0.020 CFS	0.30 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

Reviewer

Date

Date

5-20-2015

5-21-2015

Pond Size & Surface area $1,000 \text{ ft}^2$

ave. depth = 4 ft

Volume = $4,000 \text{ ft}^3 = 0.1 \text{ AF}$

0.3 AF Fire Protection Stor. a) Pond size 0.1 AF

b) Evap. 0.2 AF

$193 \text{ gpd} \times 365 \text{ days} / 365,25$

c) seepage 0 AF

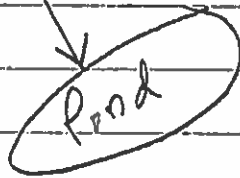
membrane lined.

0.02 cfs Fire Protection

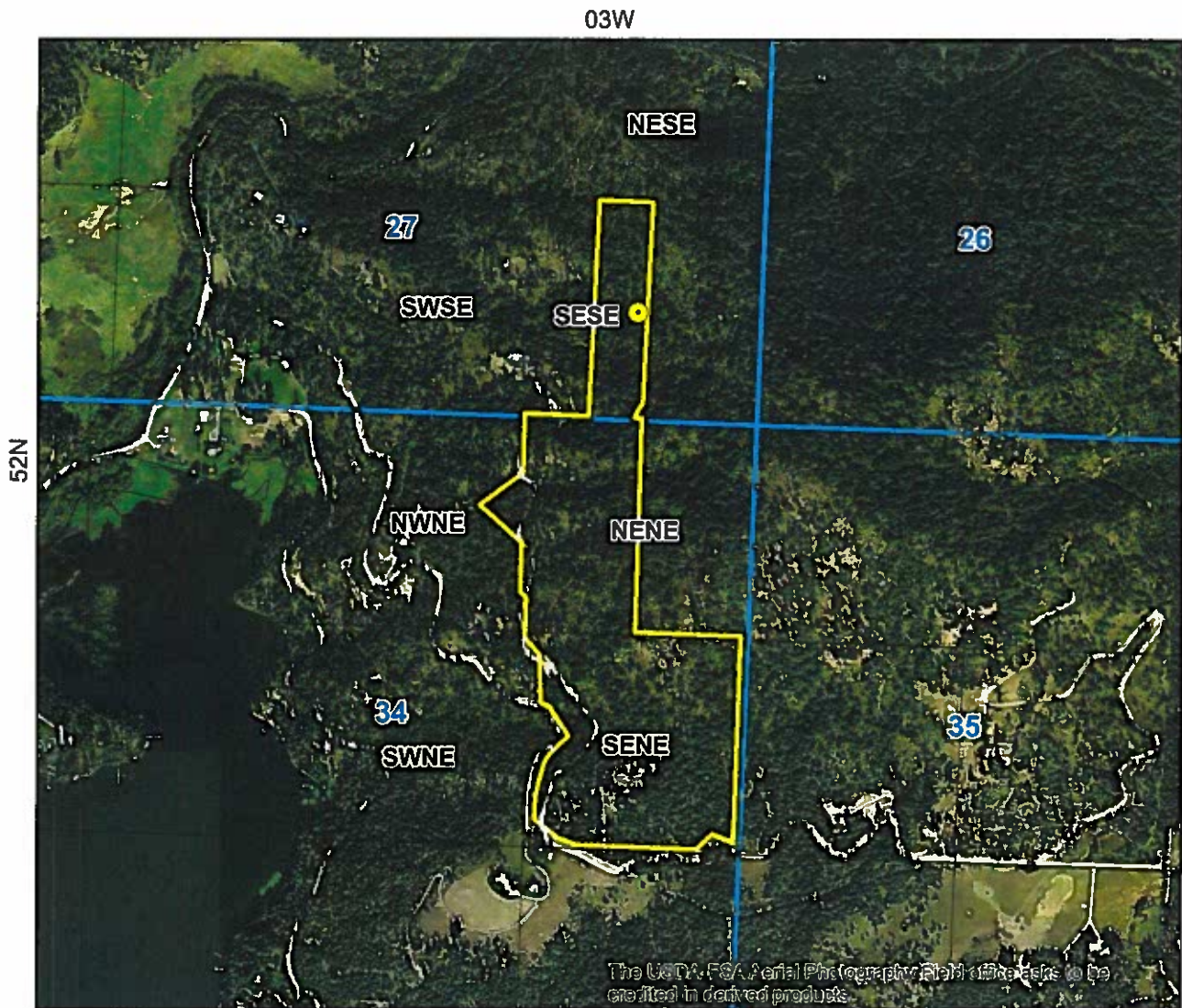
0.02 Recreation

0.3 AF Recreation Stor.

spring = 0.02 cfs max



State of Idaho
Department of Water Resources
Water Right License
95-11515
FIRE PROTECTION



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

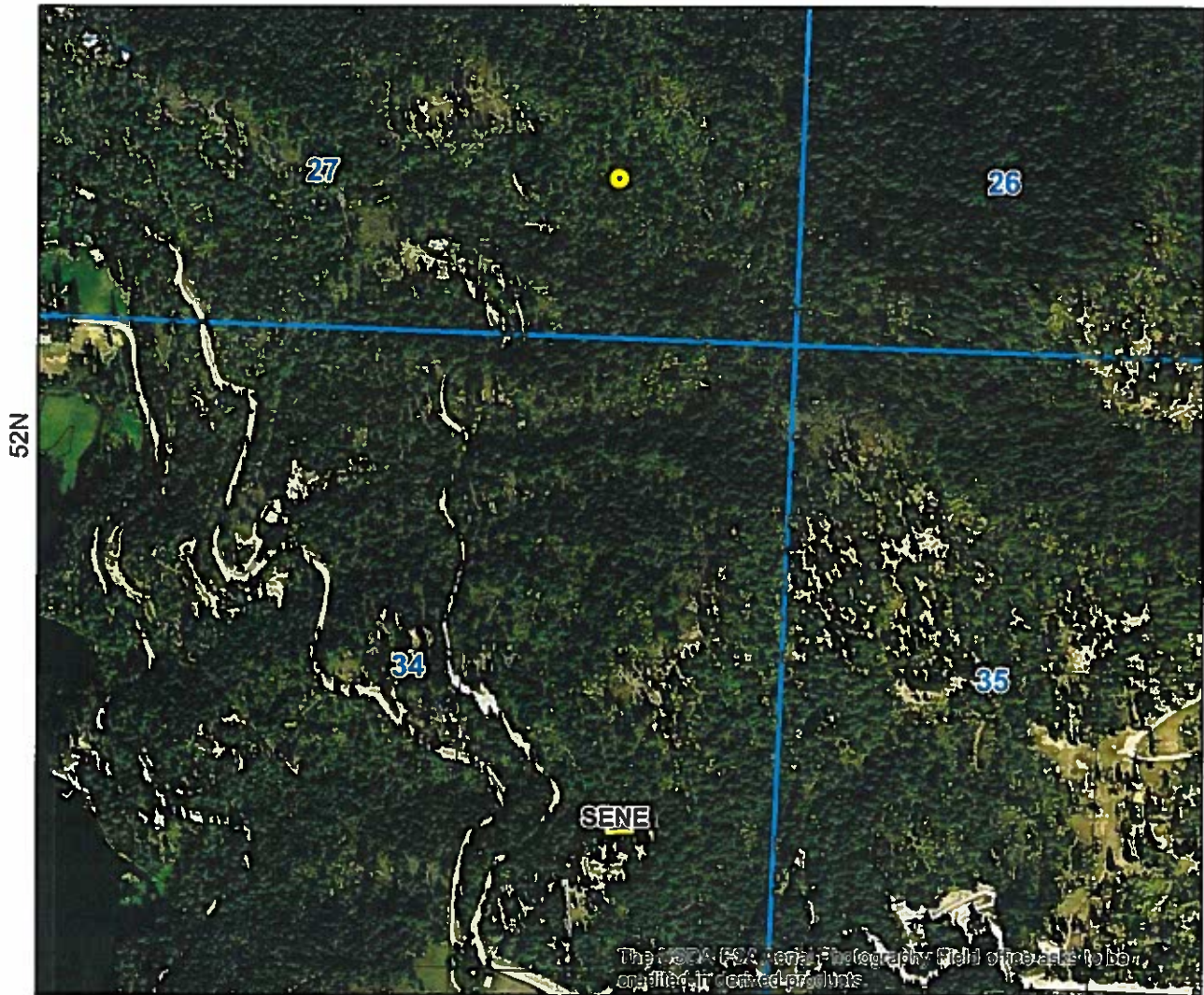
0 0.125 0.25 0.5 Miles



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FIRE PROTECTION STORAGE AND RECREATION STORAGE

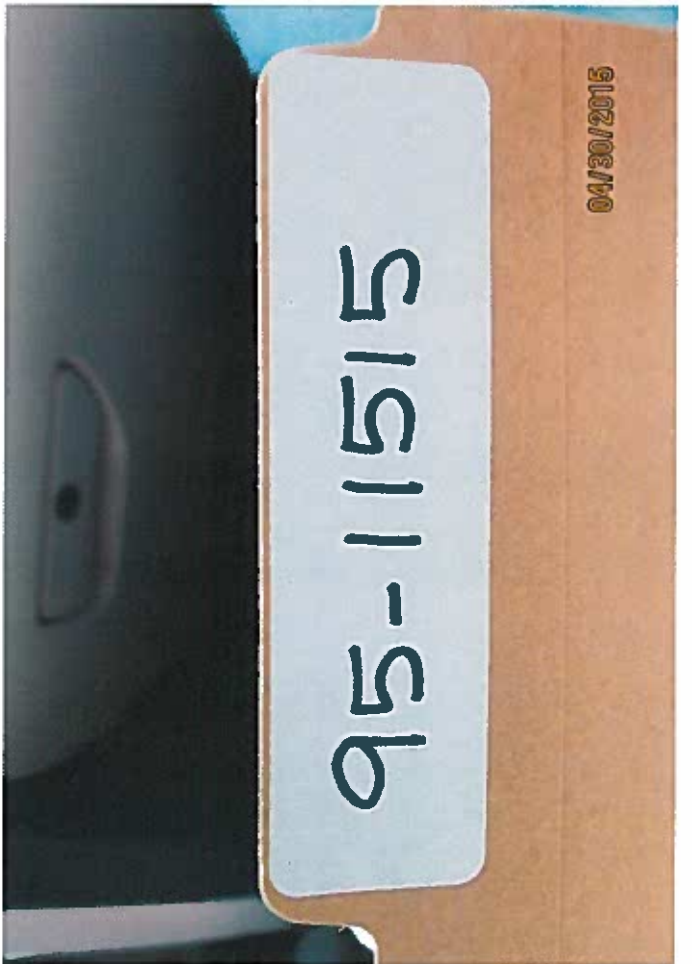
03W



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

0 0.075 0.15 0.3 Miles





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