

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 67-15084

Exam Date: 10/30/2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y ___ N
 a. Irrigation of 5 acres or less
 b. Storage of up to 14.6 AF for stockwater purposes only
 c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 d. Other < >

2. Current Owner: Name: Ronald and Gayle Nay
 Owner of Record Correct? X Y ___ N
 Address of Record Correct? Y ___ N
 If No: Address

3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: C0

4. SOURCE TRIBUTARY

Spring

Sinks

Method of Determination: GIS and Taxlot Data

Change in Source: ___ Y ___ X ___ N

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: There are no overlapping water rights for this permit

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

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: There are no overlapping water rights for this permit**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Spring		NE	SE	NE	30	16N	2W	B.M.	Adams
								B.M.	
								B.M.	

Method of Determination: Permit, GIS and Taxlot data.Change in POD? X ___ N Amendment Required? X ___ N

2. **PLACE OF USE:** Use: Stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	3W	4				S													
		Lot #																	
Total Acres =																			

Method of Determination: GIS and Tax Lot DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Spring	Unknown	Unknown	Unknown	Unknown	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
NONE						

2. Measurements: No measurement is required for an in-house exam. This appears to be a gravity feed system, so there is no way to calculate the flow rate using the information available.**E. FLOW CALCULATIONS** Additional Computation Sheets Attached

Measured Method:

This system appears to be a gravity flow system, so no estimation of the flow rate of the system could be made. Therefore we need to rely on Department standards to limit the amount of water that can be diverted. Application Processing Administrative Memorandum # 3 allows a diversion rate of 0.03 cfs for 100 head of range cattle.

Admin Memo Allows = 0.03 cfs

Permit allowed = 0.02 cfs

I am recommending a diversion rate of 0.02 cfs, since it is the maximum allowed by the permit. The system may allow a higher diversion rate, but the permit is the limiting factor.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\quad\quad\quad} \times 3.5 = \underline{\quad\quad\quad}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\quad\quad\quad}$$

2. Volume Calculations for Other Uses:

Application Processing Administrative Memorandum # 3 allows an annual volume of 1.4 af. I am concerned that they will not be able to keep 100 head of stock on this small parcel of land therefore, I am recommending the 1.4 af allowed under the Administrative Memorandum.

G. PURPOSE OF USE

Irrigation X Y N # Stock Domestic # of Homes 1

Other: < >

Change in Purpose of Use? Y N

Method of Determination: Taxlot data and conversations with owner.

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit is qualifies for an in-house exam. The biggest concern about this permit is the number of cattle that were listed as being watered on this parcel of land. This parcel of land only covers 20.8 acres. With a 100 head of range cattle, that would be approximately 4.8 cows per acre. Most counties limit the number of animals to 2 head per acre, so that would mean they could only keep 42 head of cattle on this property without a confined feedlot operation. There doesn't appear to be any corrals in the aerial photos, so I am assuming there are a great deal less animals using this spring than they can supply water. I also couldn't see any fences in the aerial photos, and they scratched out "Open Range" on their Proof of Beneficial use, so cattle grazing the surrounding properties may use this system for water.

I am going to remove conditions 004, X02, and 26A from the licensing recommendation, but I am going to carry condition R05 onto the license.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Stockwater	01/01 to 12/31	0.02 CFS	1.4 AF
<u>Totals:</u>		0.02 CFS	1.4 AF

2. Recommended Amendments

___Change P.D. as reflected above ___Add P.D. as reflected above ___None

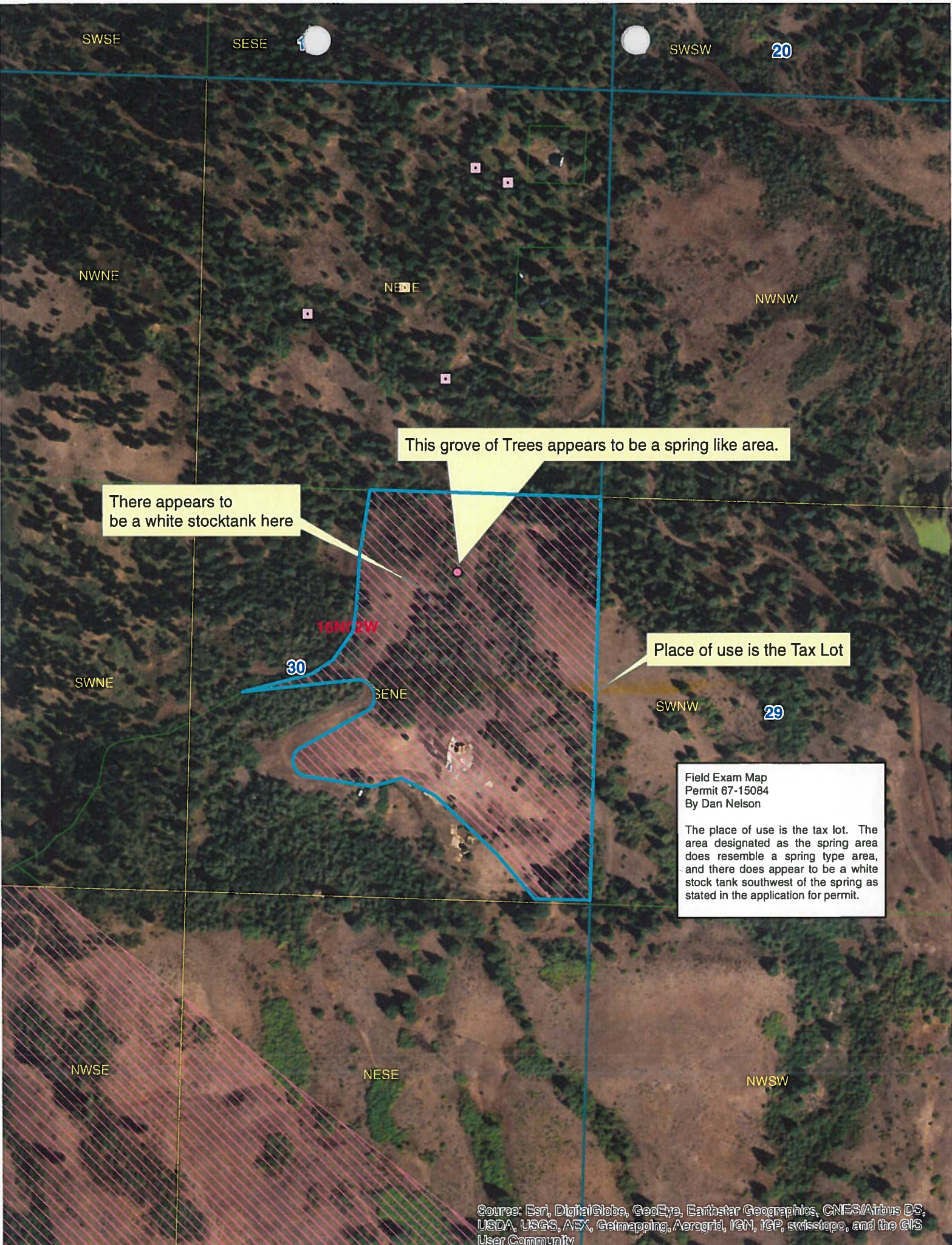
___Change P.U. as reflected above ___Add P.U. as reflected above ___None

Other: < >

J. AUTHENTICATION – Daniel A. Nelson – Staff Hydrologist

Field Examiner's Name  Date 10-30-15

Reviewer _____ Date _____



SWSE

SESE

SWSW

20

NWNE

NESE

NWNW

This grove of Trees appears to be a spring like area.

There appears to be a white stocktank here

16N 2W

30

SWNE

SENE

Place of use is the Tax Lot

SWNW

29

Field Exam Map
Permit 67-15084
By Dan Nelson

The place of use is the tax lot. The area designated as the spring area does resemble a spring type area, and there does appear to be a white stock tank southwest of the spring as stated in the application for permit.

NWSE

NESE

NWSW