

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

A. GENERAL INFORMATIONPermit No: 96-9453Exam Date: 3/3/2015

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

2. Current Owner: Name: Stephen James Reichle
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**
Unnamed stream Sinks

Method of Determination: GIS and permit shapesChange 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 water rights overlapping the place of use for this water right.

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 water rights overlapping this point of diversion**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Spring			NW	NE	31	55N	5W	B.M.	Bonner

Method of Determination: GIS and Permit Maps. I couldn't find an aerial photo map that suggests that there is actually a stream in this area. However, this is a forested area, so a stream channel could be hiding in the trees. The Topographical map does show an intermittent stream in this area, so I used that source to determine the location of the diversion point.

Change in POD? X Y N Amendment Required? X Y N

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

TWP B	RGE	Sec	NE				NW				SW				SE				Total s
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
55N	5W	31		D															
Total Acres =																			

Method of Determination: GIS and Permit ApplicationChange 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
Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

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

Please Note: This is an in-house exam, so no field exam was performed. We relied on the information supplied by the owner to determine the point of diversion information. There is no official diversion point. The owner fills a 5 gal bucket in the stream and carries it to the house to wash dishes and personal washing.

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: There is no constant diversion rate. The only diversion is use of a 5 gal bucket being used to collect water and carry it to the home.

E. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

This is a bit of weird system. The system is comprised of using a 5 gallon bucket to collect water from the creek and carry it approximately 300 feet to the house. I am assuming that it takes more than 1 minute to carry the water to the home and back to the creek, so I would estimate the flow rate at 5 gallons per minute or less.

Estimated flow rate = 0.01 cfs

Permit allowed = 0.04 cfs

The permit allows a maximum diversion rate of 0.04 cfs, which would be reasonable if there was a pumping system. There is no pumping system, so the maximum that I can recommend is the 0.01 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

The Department's standard for in-house use and up to ½ acre of yard irrigation is 1.2 af. The owner uses a bucket to carry water to the house, which would require approximately 78,204 trips with the bucket per year or an average of 214 trips per day. However, there could be some garden irrigation and irrigation of flower beds or pots. Even though it is unlikely that they will use the entire 1.2 af, it is reasonable to allow the full diversion volume for this permit.

G. PURPOSE OF USEIrrigation 1/2 acre N # Stock _____ Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ___Y ___X ___N

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

During the filing of proof of beneficial use, the owner stated in a conversation with staff that he only carries water from the stream to his house for doing dishes and bathing ect. Since this is an in-house exam, I was not sure exactly how to calculate the flow rate or volume. For the flow rate, I estimated that it would take more than 1 minute to carry the water from the creek to the home, so limited the diversion rate to 5 gpm or 0.01 cfs. I used the standard volume for domestic use of 1.2 af even though it is unlikely that they could carry that amount of water to the house.

I was concerned on whether or not we should allow this permit to be licensed or not, but it appears as though there are no other water rights for this property. I couldn't find a municipal type system within a reasonable distance to the property to supply water to the owner. Therefore, I believe this is the only source of water the owner has for this home. I feel we need to license the water right for domestic purposes to allow him to have water into his home.

The majority of the conditions will remain the same. Only the conditions that are permitting conditions will be removed.

I am concerned about allowing this right to be licensed, since there is no real diversion point or delivery system. Northern region also stated that they no longer allow these types of permits. However, we have licensed these types of rights in the past. For example of bucket filled diversions that have been licensed see water right 79-14082. The application clearly states that the owner may use a bucket to divert the water to his home, and the Department approved the permit. I feel it would be dishonest of us to deny the licensing of the permit after he did what he said he would do in the permit. Therefore, I have prepared a draft license for this permit and I am recommending that it be licensed. The 2/5/2015 telephone conversation with staff suggests that a fish screen wasn't used, but the permit holder can see fish entering the bucket and setting them free, so he is basically the fish screen.

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>
Domestic	01/01 to 12/31	0.01 CFS	1.2
<u>Totals:</u>		0.01 CFS	1.2

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

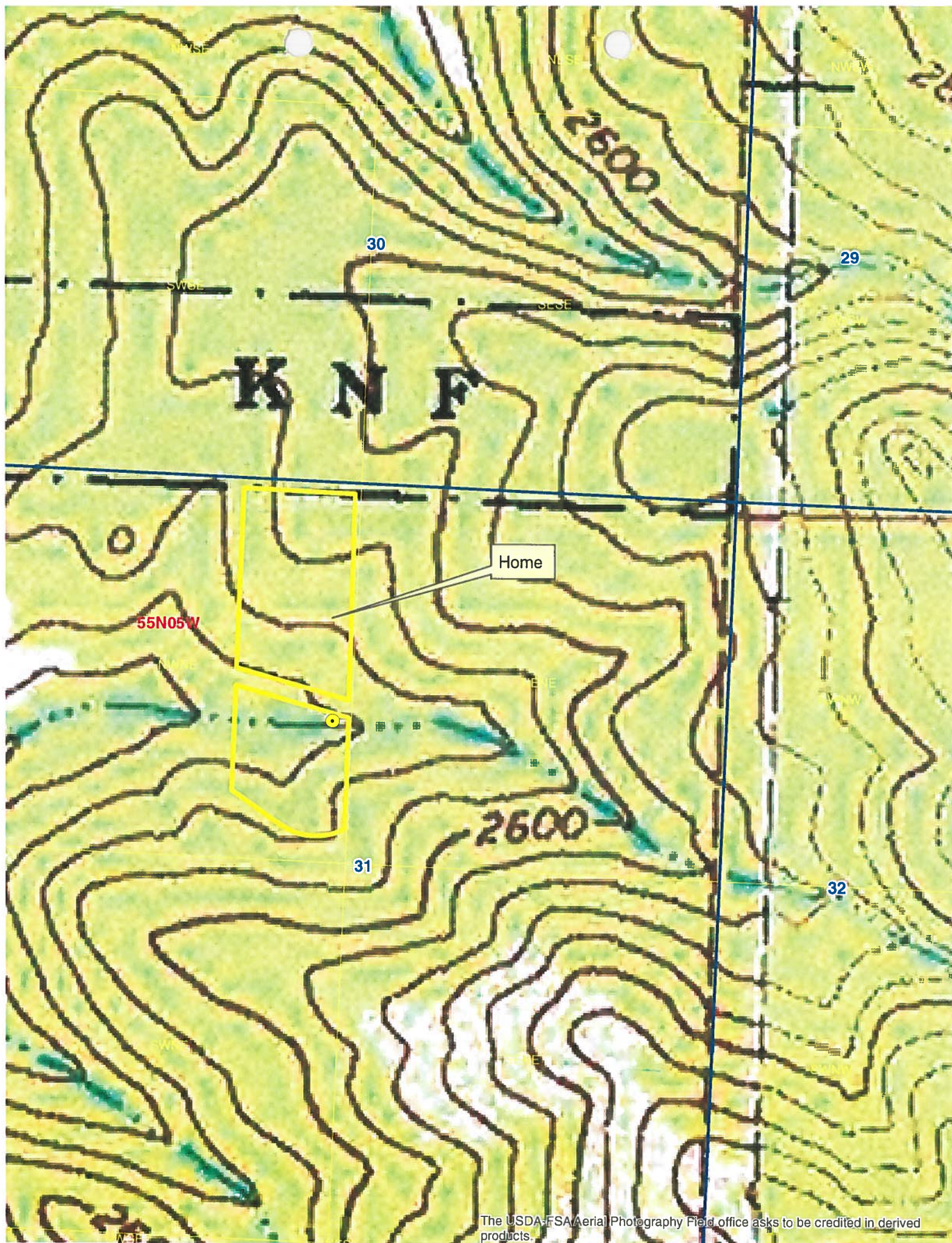
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

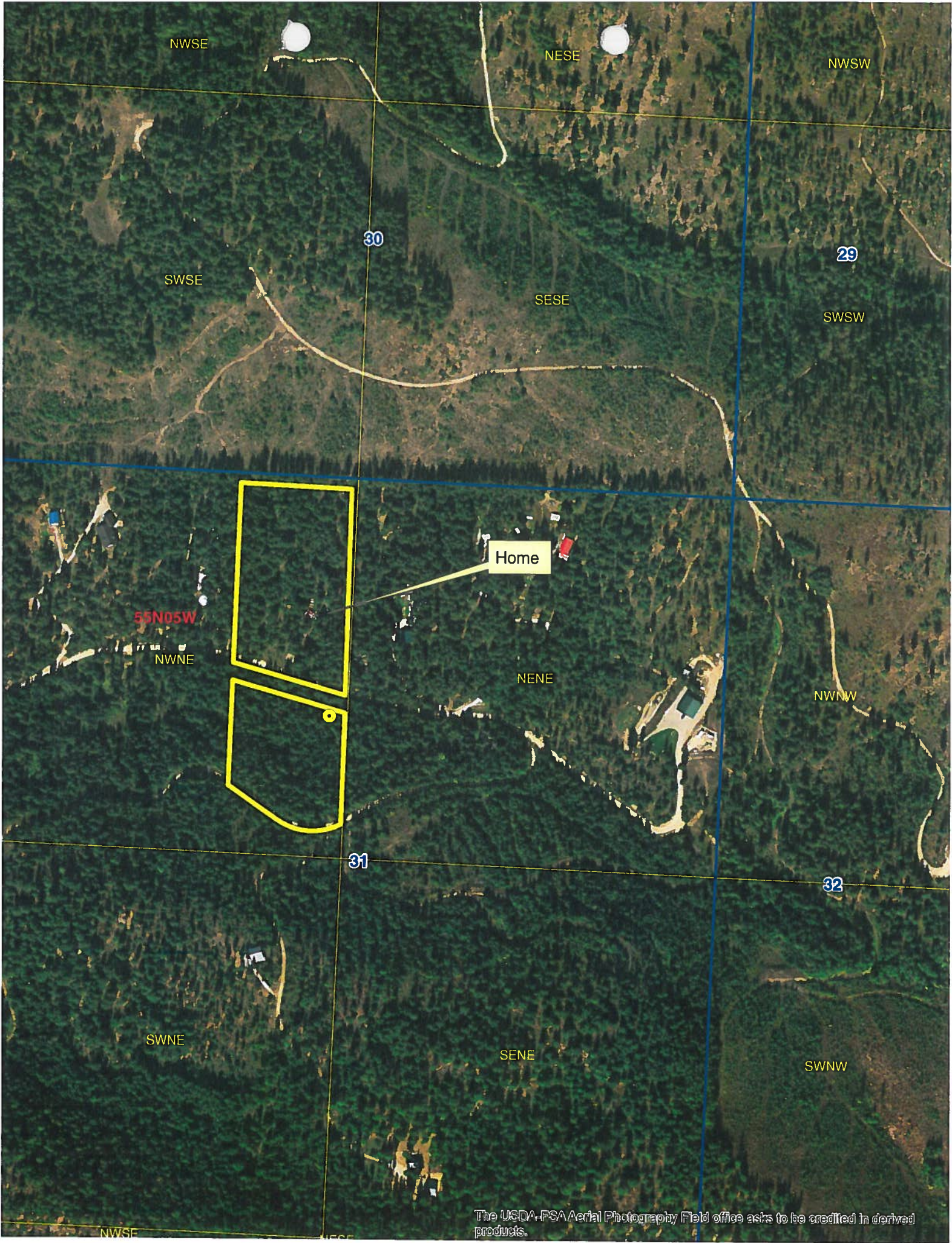
Other: < >

J. AUTHENTICATION Daniel A. Nelson – Staff Hydrologist

Field Examiner's Name Daniel A. Nelson Date 3-3-15

Reviewer _____ Date _____





NWSE

NESE

NWSW

30

29

SWSE

SESE

SWSW

Home

55N05W

NWNE

NENE

NWNW

31

32

SWNE

SENE

SWNW

NWSE

NESE

The USDA-FSA Aerial Photography Field office asks to be credited in derived products.