

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

A. GENERAL INFORMATIONPermit No: 96-9534

Exam Date: 03-13-15

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y Na. 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: Walker

Owner of Record Correct? Y X NAddress of Record Correct? Y X N

If No: Address: Change of Ownership. Address 3910 Cocolalla Loop, Cocolalla, ID on statement of completion but already returned mail from that address. 10444 N. Lakeview Dr. Hayden correct address.

3. Beneficial Use Fees have been paid: X Y N Receipt No: N0310794. **SOURCE****TRIBUTARY**

Spring

Sinks

Method of Determination: Application information. No spring on DRG in taxlot.

Change in Source: Y X N**B. OVERLAP REVIEW**1. Other water rights with the same place of use: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: POU PIN: RP55N03W240301A

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

Water Right No.	Source	Purpose of Use	Basis

Comments:

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Spring		SE	NE	NE	24	55N	03W	B.M.	Bonner
								B.M.	

Method of Determination: Application information. Telephone communication confirmed POD location (Memo. Dan N. 04/27/15)

Change in POD? X Y N Amendment Required? X Y N2. **PLACE OF USE:** Use: Domestic, Irrigation, Stockwater No spring on DRG in taxlot.

TW P	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
55N	03W	24	0.9																0.9
		Lot #																	
																	Total Acres =	0.9	

Method of Determination: Home, shop, barn, corrals visible on GIS imagery. PIN RP55N03W240301A

Change in POU? ____Y__X__N Amendment Required? ____Y__X__N

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

Indicate weir size/pipe as applicable.

___ 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

*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: <_____>

E. FLOW CALCULATIONS

____Additional Computation Sheets Attached

Measured Method:

Domestic:

Per Application Processing Memo #22, 0.04 cfs for domestic use, with yard. 0.02 cfs for domestic, no yard.

Per conditions, irrigation of lawn gardening and landscaping under irrigation component. There are 3 buildings listed – home, shop, and barn – 0.06 cfs max.

Irrigation:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable 0.9 acres(0.03 cfs) = 0.03 cfs

Per communication memo. Dated 04/24/15 from Dan Nelson – ¾ HP Pump with estimated 0.05 cfs capacity.

Stock:

Per App. Processing Memo #3, 10-25 livestock, 0.02 cfs

Permit allowed = 0.04 cfs domestic, 0.02 cfs stock, 0.03 cfs irrigation

License recommend for 0.04 cfs domestic, 0.02 cfs stock, 0.03 cfs irrigation.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.09 \times 3.0 = 0.27$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.7$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 0.27$$

2. Volume Calculations for Other Uses:

Domestic:

Per Application Processing Memo #22, 1.2 afa for domestic use, with yard. 0.6 afa for domestic, no yard.

Per conditions, irrigation of lawn gardening and landscaping under irrigation component. Granting 1.2 afa to match dom. volume for 2 buildings. Home is one, shop and barn not likely to draw full afa so considered one building.

Stock:

Per App. Processing Memo #3, 10-25 livestock, 0.4 afa

License recommend for 0.0 afa irrigation, 1.2 afa domestic, 0.4 afa stock.

Irrigation use exempt per I.C. 37.03.02

G. PURPOSE OF USE

Irrigation ☐ Y ☐ # Stock 20 Domestic # of Homes 3 - home, shop, barn

Other:

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: GIS Imagery and Application Information

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

Season of Use: 04/01-10/31

Headgate: 3.0

Cons. Use: 2.0

Water District: None

Wild and Scenic Watersheds: None

Conditions:

NO gal per day limit

Conditions:

This right does not grant any right-of-way or easement across the land of another

CFS Limited to 0.05 cfs - Per communication memo. Dated 04/24/15 from Dan Nelson – ¾ HP Pump with estimated 0.05 cfs capacity.

Adjusted season of use to IDWR standard.

Total Irr. Volume sum of Domestic and Stockwater only per discussion with Dan N. as irrigation Volume exempt per I.C. 37.03.02 and is not reported.

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	0.04 CFS	0.6 AF
Stockwater	01/01 to 12/31	0.02 CFS	0.4 AF
Irrigation	04/01 to 10/31	0.03 CFS	N/A AF

Irr. Exempt 37.03.02

Totals: 0.05 CFS 1.0 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

Field Examiner's Name

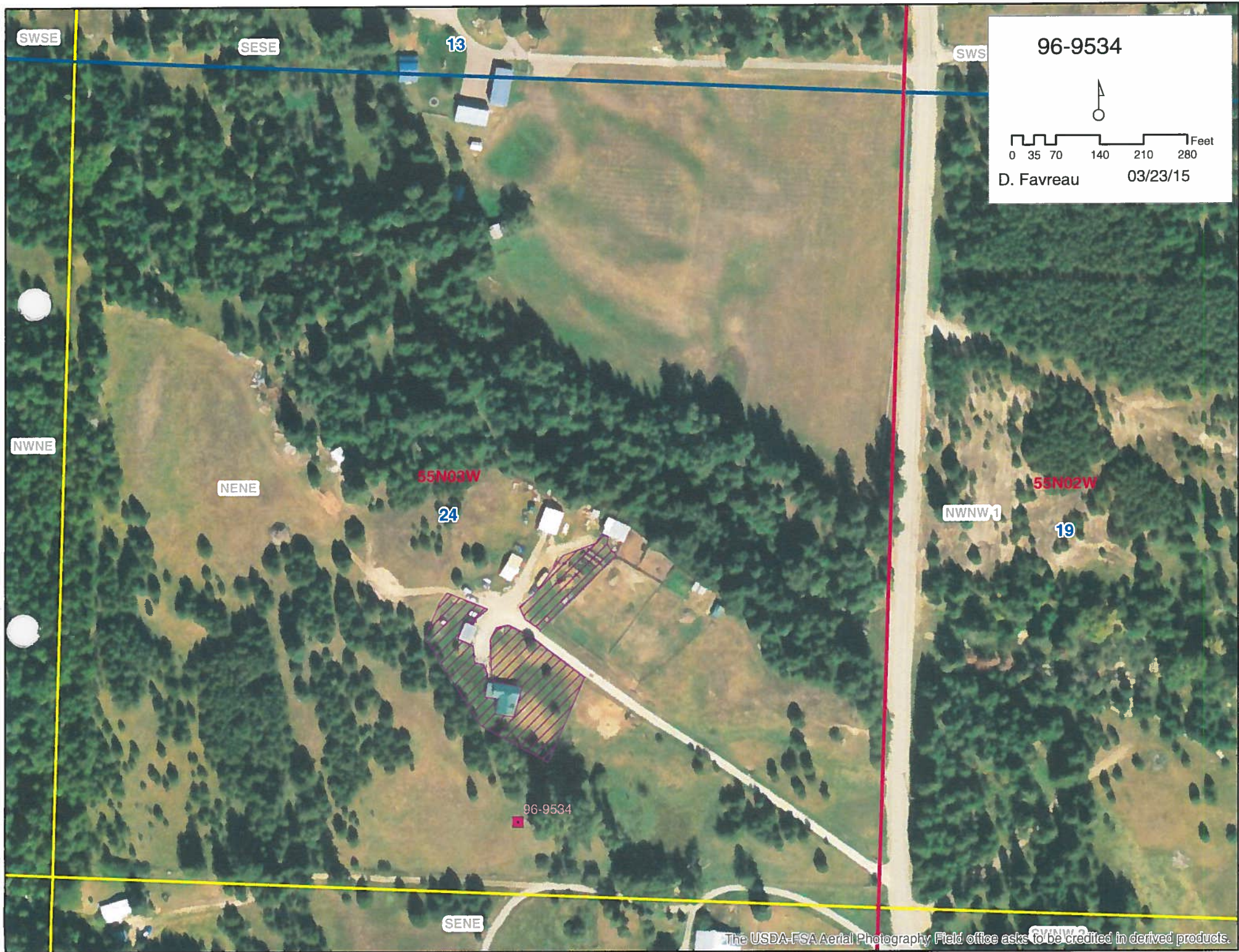


Date



Reviewer

Date



96-9534



0 35 70 140 210 280 Feet

D. Favreau

03/23/15

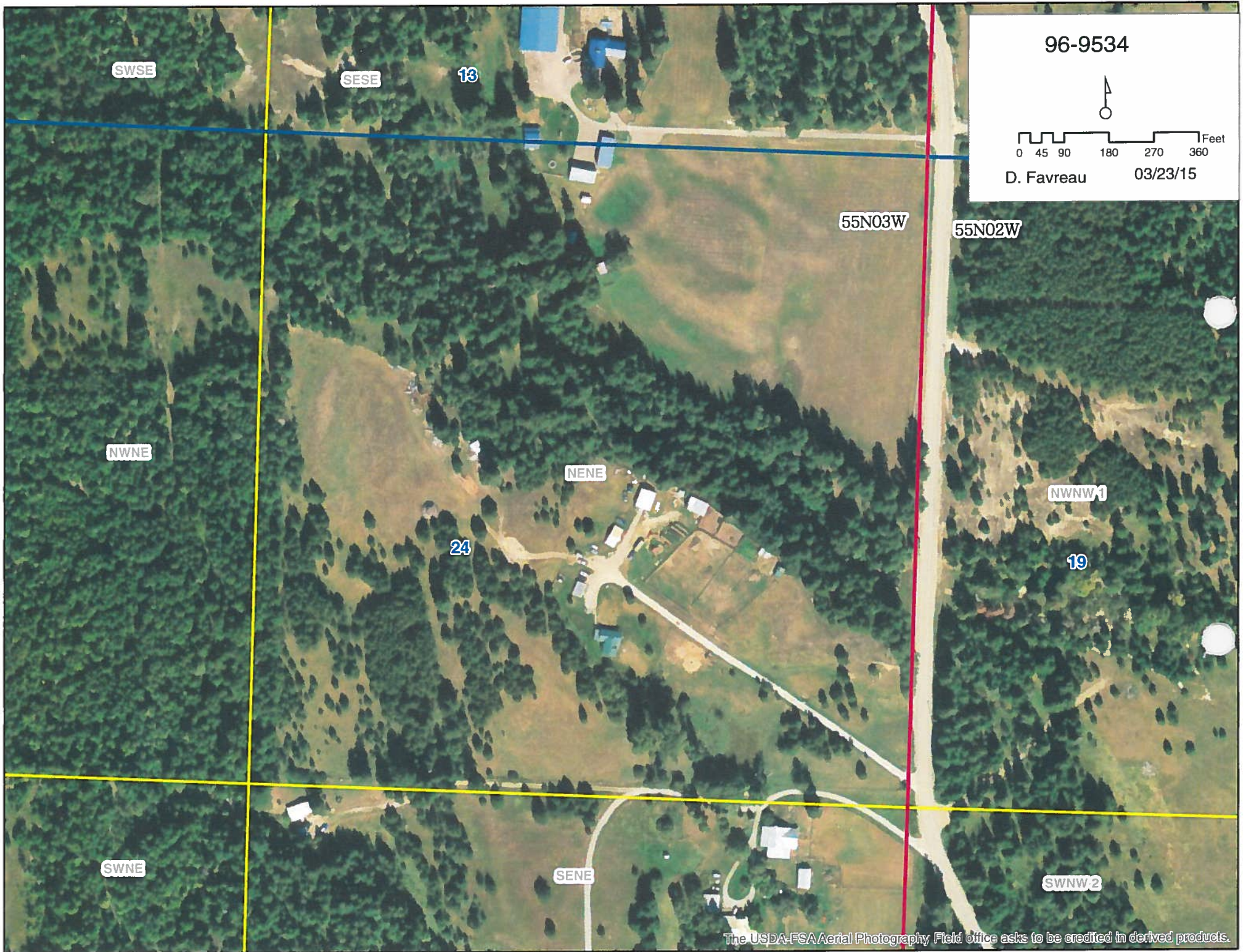
65N03W

24

55N02W

19

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0 45 90 180 270 360 Feet

D. Favreau

03/23/15

SWSE

SESE

13

55N03W

55N02W

NWNE

NENE

NWNW,1

24

19

SWNE

SENE

SWNW,2

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

MEMORANDUM

TO: File 96-9534

FROM: Daniel Nelson – Staff Hydrologist

DATE: April 27, 2015

SUBJECT: Telephone conversation with owner.

We tried on several different occasions to contact the owner to verify the spring associated with this home. The reason for the concern was that the spring was located downhill from the residence.

According to the owner, the map is correct., and they actually pump the water from the spring up to the home. They use a $\frac{3}{4}$ Hp pump with a 10 ft. lift out of an 18 ft. cistern. The estimated pressure at the home was approximately 30 psi. Using a theoretical calculation, the estimated flow rate of this system would be as follows:

$$\frac{\frac{3}{4} \text{ Hp} \times 8.8 \times 0.70 \text{ eff.}}{10 \text{ ft lift} + (30 \times 2.31)} = 0.058259773 \text{ cfs or } 26 \text{ gpm}$$

[illegible]