

Method of Determination: GIS Imagery – BING only showing evidence of irrigation – only found 2.0 acres irrigation. Taxlot only 2.8 acres. PIN RP00081003007A

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

 X Additional Computation Sheets Attached

Measured Method:

Per applicant, 1 HP Pump. Average Q = 0.04 cfs.

Pipe flow $Q = 5 \pi ((\text{diameter}/12)/2)^2 = 5(3.14)((1.5/12)/2)^2 = 0.06 \text{ cfs}$

Irrigation:

IDWR standard 0.02 cfs per acre. 2 acres(0.02 cfs) = 0.04 cfs

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 2 acres(0.03 cfs) = 0.06 cfs

Permit allowed = 0.06 cfs

License recommend for 0.04 cfs Irrigation *0.06 cfs recommended per Dan Nelson memo 11/01/13*

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.0 \times 3.5 = 7.0$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 214 \times 1.9835 = 25.5$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 7.0$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation X Y N # Stock Domestic # of Homes

Other: < >

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination:

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

H. NARRATIVE/REMARKS/COMMENTS

- In Wild and Scenic Watershed: Salmon River Excluding Middle Fork
- 029 - Fish & Game fish requirement – satisfied through pictures provided by permit holder.
- 01H - lockable device requirement - satisfied through pictures provided by permit holder.
- Headgate = 3.5, Consumptive Use = 2.5.

-Condition 115 changed to Condition 197 per Craig Saxton 08/26/13. Straight length conduit visible on pictures provided by permit holder.

No annual volume included on surface water rights per IDWR policy.

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>
Irrigation	04/01 to 10/31	0.04 CFS	AF

Totals:

0.04 CFS

N/A AF

2. Recommended Amendments

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

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

Other: < >

*0.06 CFS recommended per Dan Nelson
memo dated
11/01/13*

J. AUTHENTICATION

Field Examiner's Name Dan Nelson Date 10/31/13

Reviewer Dan Nelson Date 10-8-13

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 75-7655
 Examiner: D. Favreau
 Date of Field Exam: 7/30/2013

	Option 1	OPTION 2	OPTION 3	
P/D No.:				
PUMP HORSEPOWER	1	1	1	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	40	40	40	
DISCHARGE PRESSURE	40	50	60	
FRICTION	0	0	0	
RATE OF FLOW (cfs)	0.05	0.04	0.03	AVE
(gpm)	20.9	17.8	15.5	0.04

The above calculates the formula =

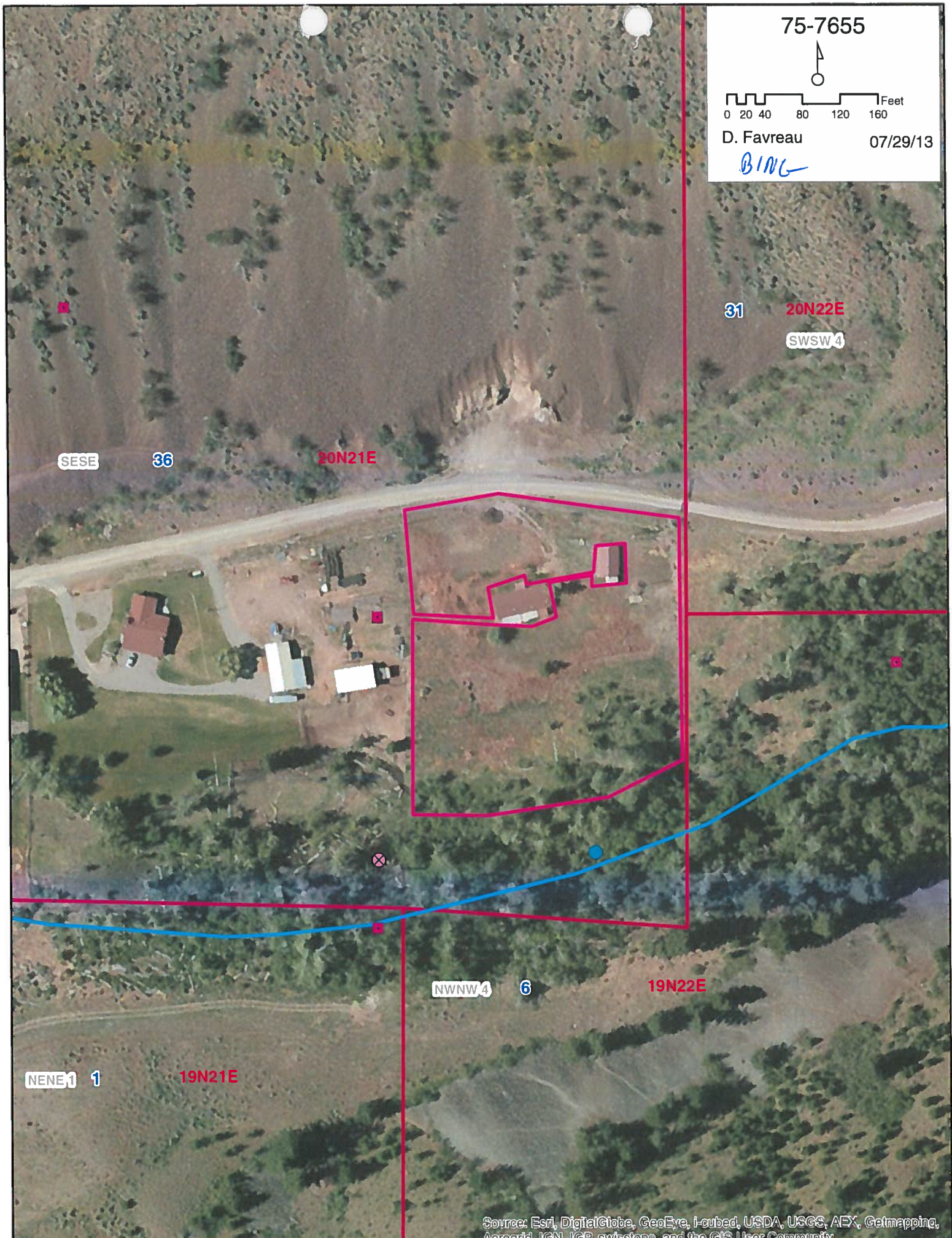
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{epth to water} + 2.31 * (\text{psi}) + \text{frictic}}$$

Assumptions: %70 efficiency.

Examiners Notes:

Lift was taken from DRG contours plus dynamic lift indicated on proof of beneficial use (10 ft). Hp from application. A standard psi for domestic use of 40 to 60 psi was used to estimate the pressure

[illegible]



75-7655



0 20 40 80 120 160 Feet

D. Favreau

07/29/13

BING

31

20N22E

SWSW 4

SESE

36

20N21E

NENE 1 1

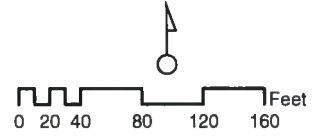
19N21E

NWNW 4

6

19N22E

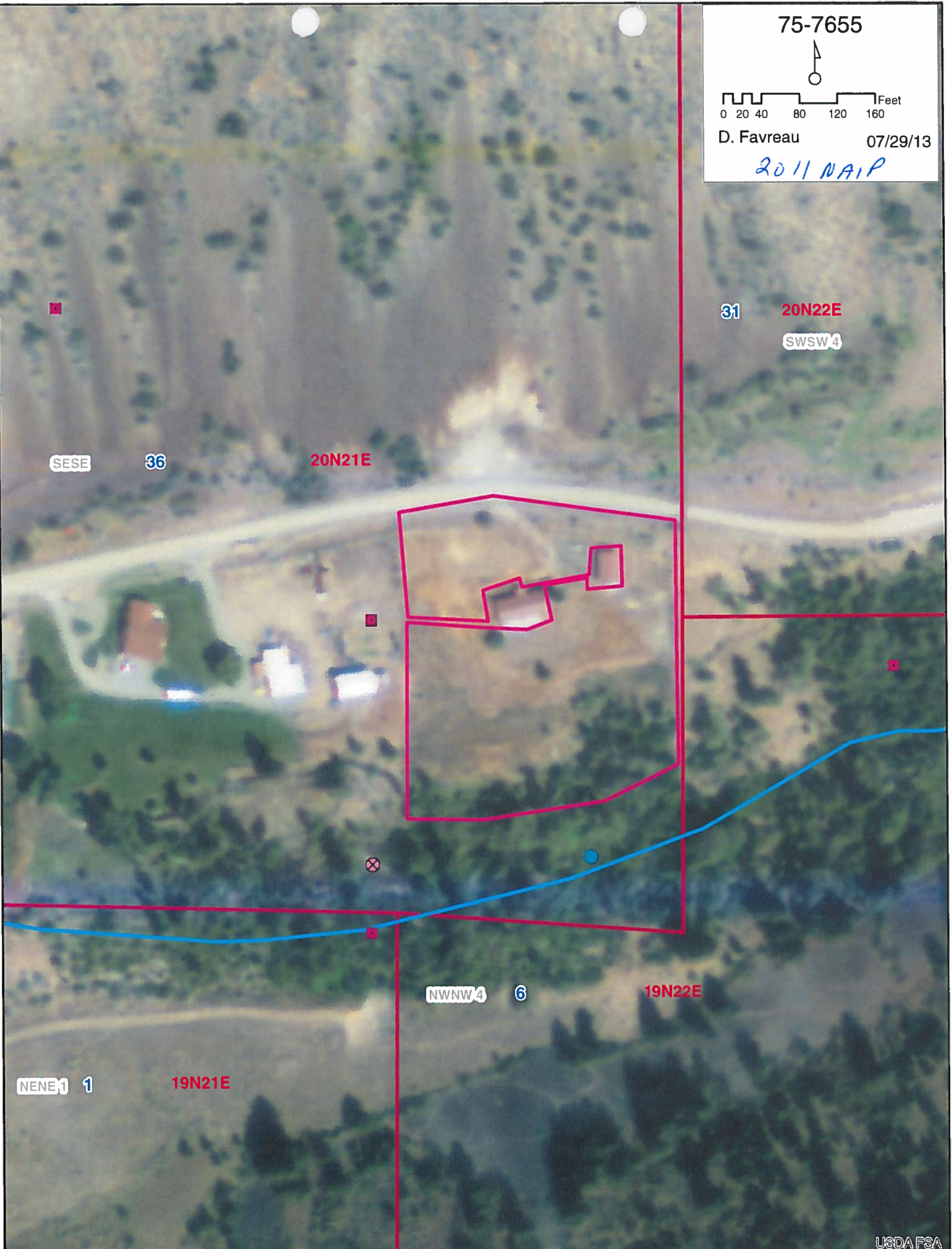
75-7655



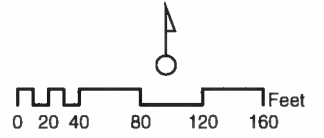
D. Favreau

07/29/13

2011 NAIP



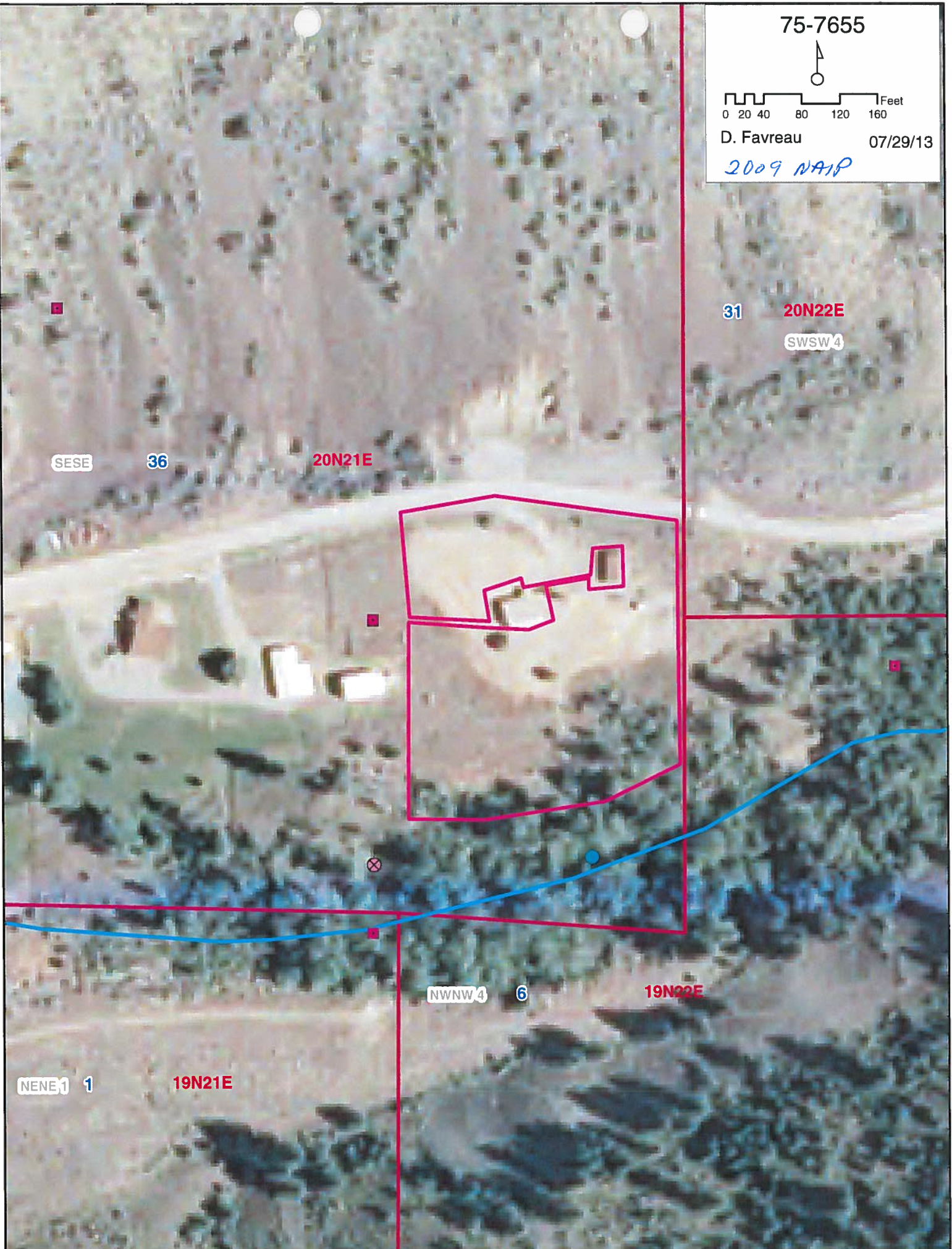
75-7655



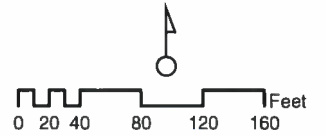
D. Favreau

07/29/13

2009 NAIP



75-7655



D. Favreau

07/29/13

2004 NAIP

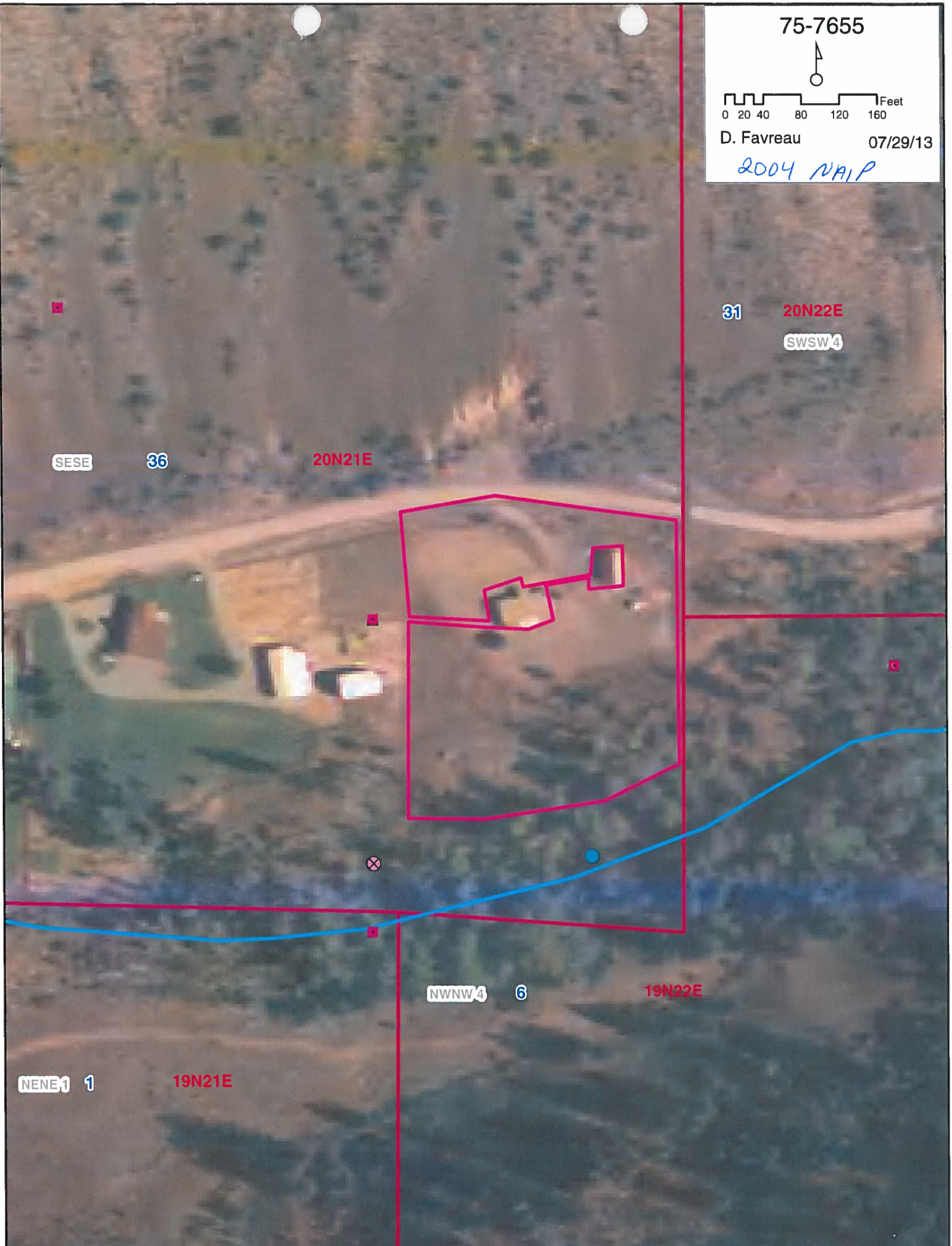




Photo #
#6
Line size 1.5"



Photo #
#4
Line size 1.5"

→ straight length conduit where measuring device can be attached.



#5
Fish Screen



#7C
lockable
electrical
box



#7A



7B

per applicant: 1 HP pump



#3

POD
pumping location



#8

sprinklers used
Approx. 8 to 10



#1
POU
backyard



#2
POU
front yard

In addition, I have enclosed a map of the identified Place of Use for Permit 75-7655. Based on the map provided and the 2011 NAIP imagery, 2.0 acres of irrigation have been identified. If additional acreage is being irrigated, please indicate where on the provided map and photographs of the additional irrigated acres. Please note that impermeable surfaces such as homes and driveways cannot be included in the irrigated acreage.

Please provide the requested information within the next thirty (30) days. If I do not receive the requested information or have been contacted by you within thirty (30) days, I will take action to void your permit under the provision of Section 42-219(8) of the Idaho Code.

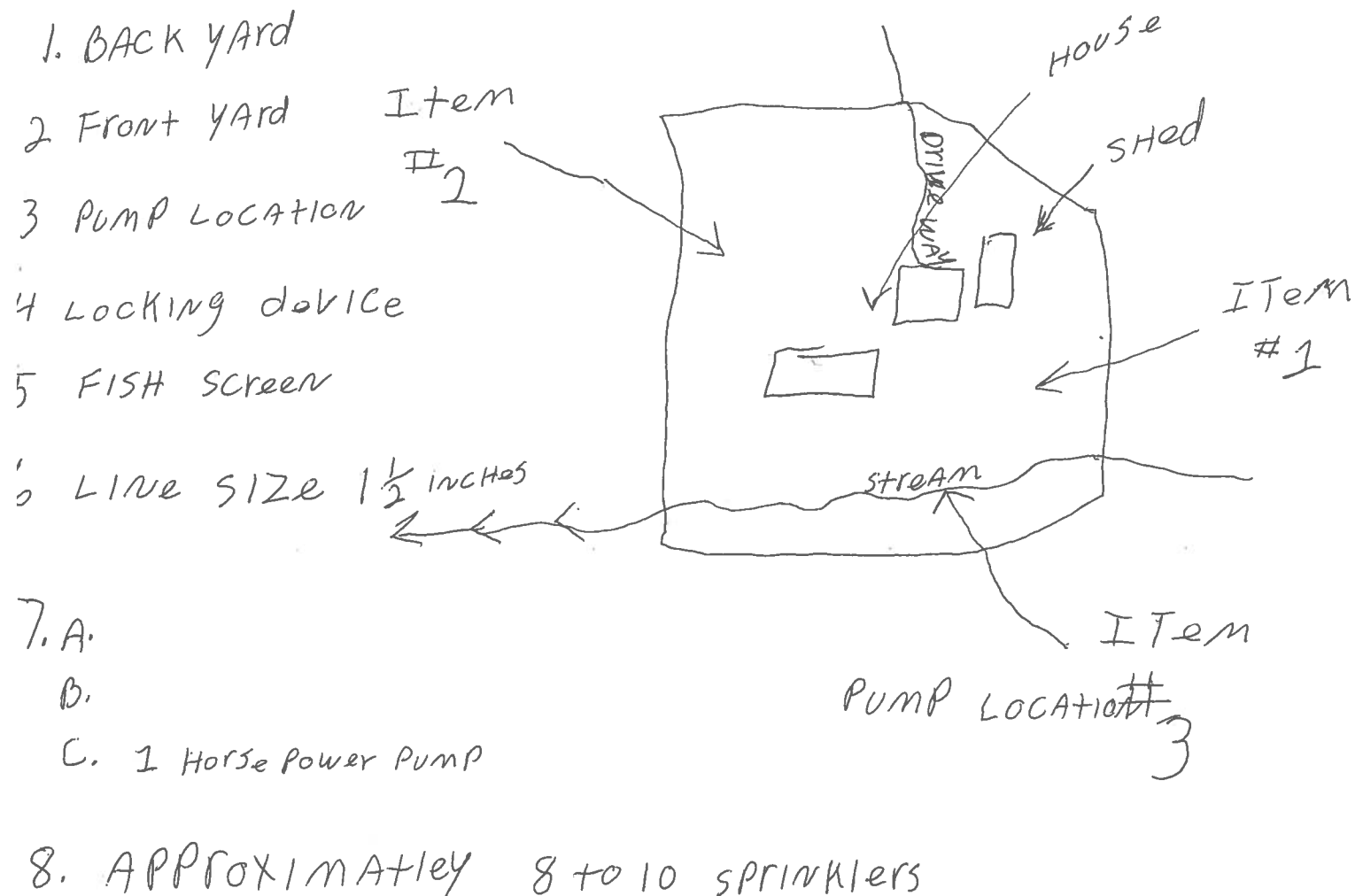
If you have any questions, please contact me at 208-287-4938. Thank you for your attention to this matter.

Respectfully,



Danielle Favreau
GIS Analyst
Technical Services Bureau

Enclosures





State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

8/27/2013

JENNIFER MILLER
TIM STEHR
1101 CREEK RD
PITMAN, PA 17964

RE: Water Appropriation Permit 75-7655

Request for Information

Dear Permit Holders:

In 2006 IDWR issued permit 75-7655 authorizing the development of a right to divert 0.06 cfs of water from Twelve Mile Creek, within SESE of Section 36, Township 20 North, Range 21 East, B.M., for irrigation use.

The final step in the water appropriation process is the issuance of a Water Right License. By issuing a license, IDWR recognizes that water has been put to beneficial use in accordance with the permit. For your convenience, I am enclosing a copy of permit(s) listed above.

In an attempt to expedite the licensing process, IDWR would like for you to provide the following information regarding your permit:

Point of Diversion Information:	Photographs of the pump and the point of diversion. If pump is in a constructed ditch, the location of the point of diversion where the ditch leaves Twelve Mile Creek If possible, GPS coordinates of pump location – latitude/longitude.	
Pump Information:	Make, Model, Serial Number, and Horse Power of Pump or a picture of the pump plate	
Sprinkler Information:	Size of water line. Size, type, number of nozzles and gallon per minute of sprinklers.	

Permit 75-7655 includes the following conditions:

3 Prior to diversion of water under this right, the right holder shall install a lockable device, subject to the approval of the Department, in a manner that will provide the Watermaster suitable control of the diversion.

#4 Prior to the diversion and use of water under this approval, the right holder shall comply with all fish screening and/or fish passage requirements of the Idaho Department of Fish and Game.

Photographs of:	A lockable device attached to the diversion that will provide the Watermaster control of the diversion. If the pump is electric, a picture of the electrical box where a lock can be attached is acceptable.	
	the fish screen on the pump intake or other fish passage restriction device.	

The photographs submitted should be of sufficient number and at sufficient angles in order to confirm compliance with the conditions listed on the permit.

75-7655



0 37.5 75 150 225 300 Feet

D. Favreau

08/25/13

NESE

31 20N22E

SWSW 4

36

20N21E

SESE

NWNW 4 6

19N22E

NENE 1

1

19N21E