

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 74-15613

Exam Date: 5/7/2014

1. Current Owner: F JAMES WHITTAKER
83 BIG EIGHT MILE RD
PO BOX 240
LEADORE ID 83464
(208)768-2491

And/Or

PAULA J WHITTAKER
83 BIG EIGHT MILE RD
PO BOX 240
LEADORE ID 83464
(208)768-2491

2. Accompanied by: James Whittaker

Phone No: Same as above

Address: Same as above

Relationship to Permit Holder: Owner

3. **SOURCE**

BIG TIMBER CREEK

TRIBUTARY

LEMHI RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None *Application for Permit 74-15960*
2. Other water rights with the same point of diversion: None

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

BIG TIMBER CREEK

NW1/4SE1/4

Sec. 8, Twp 15N, Rge 26E, B.M.

LEMHI County

Method of Determination: GPS and aerial photography

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16N	25E	25									40.0			40.0	40.0	40.0	40.0		200.0

Total Acres: 200

Method of Determination: Aerial photography and site visit

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

D. FLOW MEASUREMENTS

1. Measurement equipment used: 'AA' current meter
2. Measurements:
Open channel measurement using 'AA'

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Open channel measurement using 'AA'. Calculated discharge = 3.947 cfs

A pre-fabricated broad crested flume with a staff gage and transducer data logger installed.

Staff gage reading was approximately 4.0 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 200 \times 3.5 = 700 \text{ acre-feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 4.9 \text{ cfs} \times 231 \text{ days} \times 1.9835 = 2,245.1 \text{ acre-feet}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 700.0 \text{ acre-feet}$$

G. NARRATIVE/REMARKS/COMMENTS

The point of diversion consists of a diversion check dam and control head gate to ditch on the river. A broad crested flume with a staff gage and transducer is installed in a ditch approximately 450.0 feet below the control head gate. Water is conveyed through a main ditch to the place of use. The main ditch has the capacity to transport more than 4.0 cfs. Water right holder flood irrigates approximately 200 acres using multiple ditches throughout the property.

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>
IRRIGATION	03/15 to 11/15	4.000 CFS	700.00 AF
<u>Totals:</u>		4.000 CFS	700.00 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 Blake Jordan Date 7/1/2014

Reviewer _____ Date _____

Control Headgate



Place of use

Gage on Flume



Transducer Data Logger



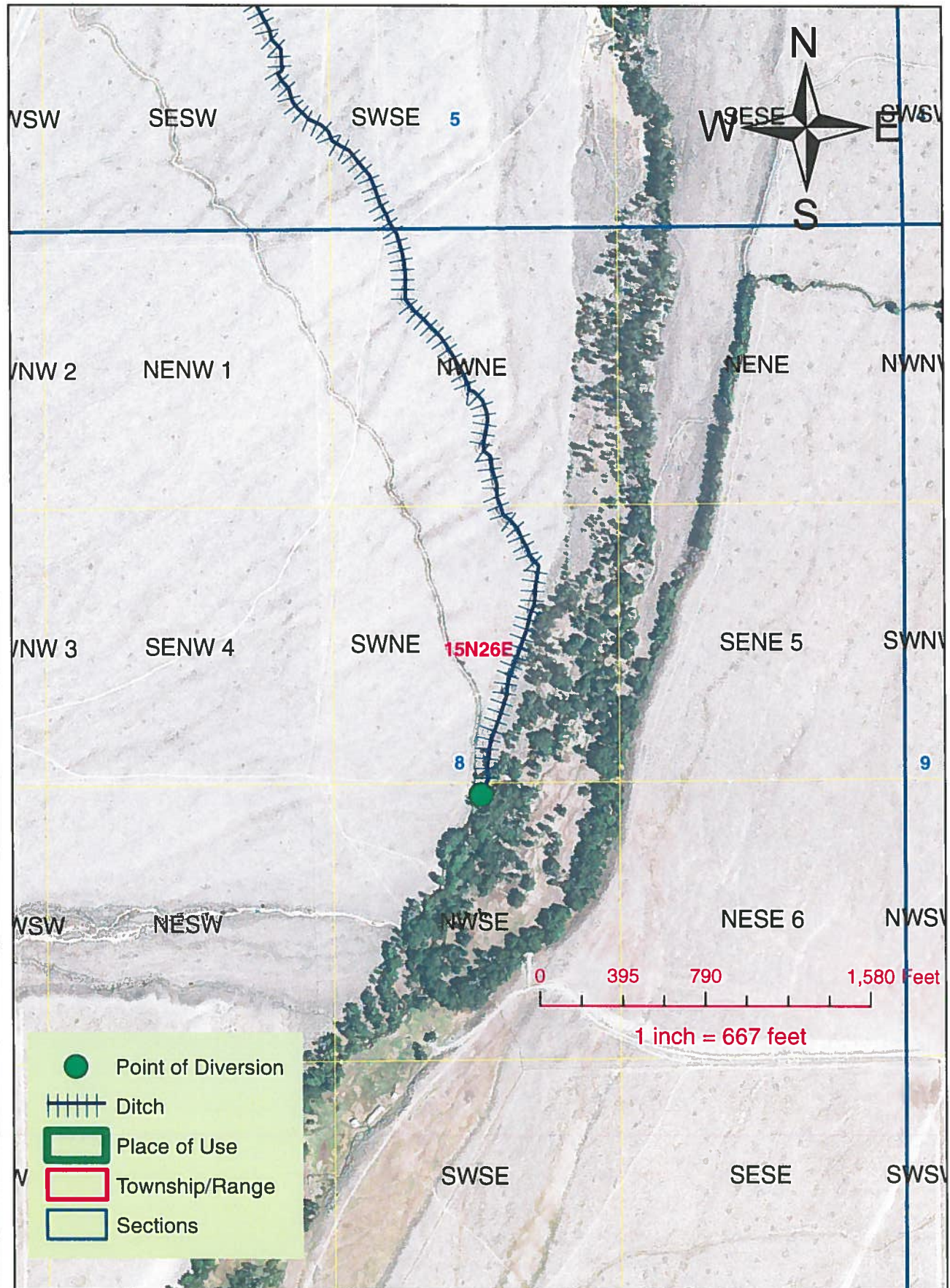
Diversion check dam on creek

3. Control head gate to Whittaker's Ditch – permit 74-15613.

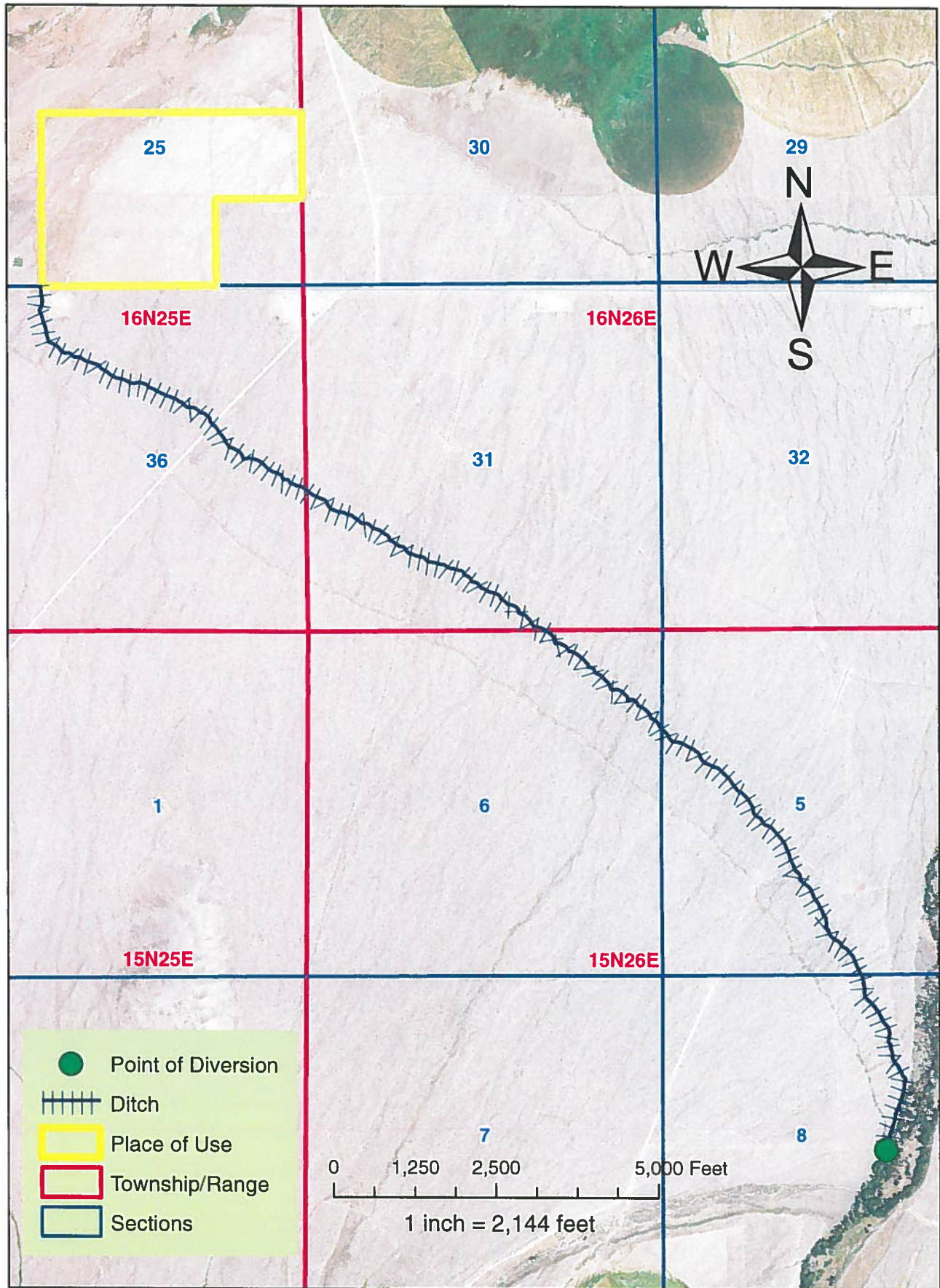


4. Control head gate with ditch in background behind Mr. Whittaker.

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