

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-07189

Exam Date: 7/12/2015

1. Current Owner:

HANGING T FARMS LLC 3585 W HWY 38 MALAD ID 83252 (208)852-2185 And

NORTHWEST FARM CREDIT SERVICES FLCA PO BOX 386 PRESTON ID 83263

2. Accompanied by: Tim Willie

Relationship to Permit Holder: Same

3. **SOURCE:** GROUND WATER**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Groundwater rights 15-2014, 15-2019A, and 15-2052C. Surface water rights 15-72A, 15-72B, 15-74, and 15-76 have places of use in the NENW of Section 36, but their decrees were too vague to justify combined limits. Samaria Water and Irrigation Company's Place of Use overlaps the southern pivot, but no shares are used on the property.

A combined limits analysis sheet is attached, demonstrating that the four rights combine to cover 238.5 acres.

2. Other water rights with the same point-of-diversion: 15-2019A and 15-2052C. 15-2052C's point of diversion was changed to the well in the NWNW of Section 36 as part of application for Transfer 5743, which was erroneously approved in Section 35.

A 2015 ownership change split 15-2052C into 15-2052C and 15-7404. 15-7404 is owned by Kelle Kelly, who drilled his own well (WellID 329239). As such, 15-7404 was not included in the overlap analysis.

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

GROUND WATER NW¼NW¼ Sec. 36, Twp 14S, Rge 35E, B.M. ONEIDA County

Method of Determination: GPS and ArcMap

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	
14S	35E	35			8.5	38.0									38.0	6.0	5.0	26.0	121.5
14S	35E	36							38.0	20.0									71.5

Total Acres: 179.5

Method of Determination: Aerial photography and ArcMap

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**4. Pump Information**

125 HP GE Model 5K6268XHIA, Serial number ANJ112147

D. FLOW MEASUREMENTS1. Measurement equipment
Fuji Portaflow C

2. Measurements:

Maximum observed readings: Pipe one: 904.8 gpm
Pipe two: 320.3 gpm**E. FLOW CALCULATIONS** Additional Computation Sheets Attached $904.8 \text{ gpm} + 320.3 \text{ gpm} = 1225.1 \text{ gpm (system total)}$ $1225.1 \text{ gpm} / 448.8 \text{ gpm/cfs} = 2.73 \text{ cfs (system total)}$ $2.73 \text{ cfs system capacity} - 1.87 \text{ cfs (15-2019A)} - 0.66 \text{ cfs (15-2052C)} = 0.20 \text{ cfs remaining from the system to be covered by this license.}$

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 179.5 \text{ acres} \times 3.5 \text{ AFA} = 628.3 \text{ AFA}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.20 \times 214 \times 1.9835 = 84.9 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 84.9 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A**G. NARRATIVE/REMARKS/COMMENTS**

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	04/01 to 10/31	0.20 CFS	84.9 AF
<u>Totals:</u>		0.20 CFS	84.9 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

I. AUTHENTICATION

Field Examiner's Name Cooper Fritz Date 3/7/2018

Reviewer James Cefalo Date 3/13/18

15-7189 Place of Use and Point of Diversion at Licensing



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

2015 Imagery

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47 55

[illegible]