

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31208

Exam Date:

1. Current Owner: FRANCISCO ODIAGA
14035 OASIS RD
CALDWELL ID 83607
(208)459-6598
2. Accompanied by: Kay Walker (IDWR) and Mr Odiaga
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: An unrecorded domestic use

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

GROUND WATER NW1/4NW1/4 Lot 4 Sec. 2, Twp 05N, Rge 03W, B.M.
CANYON County

Method of Determination: Arcmap – Field exam

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
05N	03W	2						3.2											3.2

Total Acres: 3.2

Method of Determination:

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
A0000777	unk	3.0	_Unk	_Unk	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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Pitot tube pressure at sprinklers

2. Measurements:

*5 heads * 3.28 gpm / 448.8 = 0.0365 or 0.04 cfs*

Measured 32 PSI on two different heads. Found 5 Rainbird # 30 heads with 9/64th tips operating at exam time. From chart total diversion rate $\approx$ 0.04 cfs. (Some minor leakage at the handline joints was observed).

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Theoretical:

$$\frac{8.8 * 3hp * 0.7}{(3.21 * 32) + 160} = 0.079 \text{ cfs (160' water level from well log)}$$

2.31 KRC

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.2 \text{ ac} * 4.5 = 14.4 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ cfs} * 260 \text{ days} * 1.98 = 20.6 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 14.4 \text{ af}$$

2. Volume Calculations for Other Uses:

N/A

G. NARRATIVE/REMARKS/COMMENTS

Historical documents indicate that the irrigation system was developed from a well on the property to the north ($\approx$ 200 ft northwest) but still in the same 10-acre tract. Sometime in the past, owners changed for the two parcels and the new owner of the north property blocked access to the original well. The permit holder then developed his domestic well for the irrigation of the 3.2 acres. The 3.2 acres reflect all irrigation around the property and home.

From the well a 3 inch mainline delivers water to the handlines. Mr Odiaga stated that he operated a maximum of 7 heads for irrigation purposes. For the exam, there were 5 heads operating. A second line from the well goes to the home and a pressure tank system for the domestic use. He stated that the pressure tank was isolated from the irrigation system.

The POU is the pasture area wrapping around the home site on the east, south, and west. The garden area to the north of the home was also recognized as a part of the irrigated POU. There was no actual lawn area around the home. (A large majority of the garden was planted into peppers.)

The well was drilled as a domestic well therefore the drilling fee upgrade is necessary.

Permit rate	0.10 cfs	
Fee Paid	0.20 cfs (\$50.00 fee paid)	
Found	<u>0.04 cfs</u>	<u>Recommended rate</u>

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	03/01 to 11/15	0.040 CFS	14.4 af
	<u>Totals:</u>	0.040 CFS	14.4 af KRC

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 Kelly K. Christensen Date 9-16-2011
 Reviewer _____ Date _____

Idaho Department of Water Resources
63-31208 FIELD EXAMINATION



0 330 660 1,320
Feet

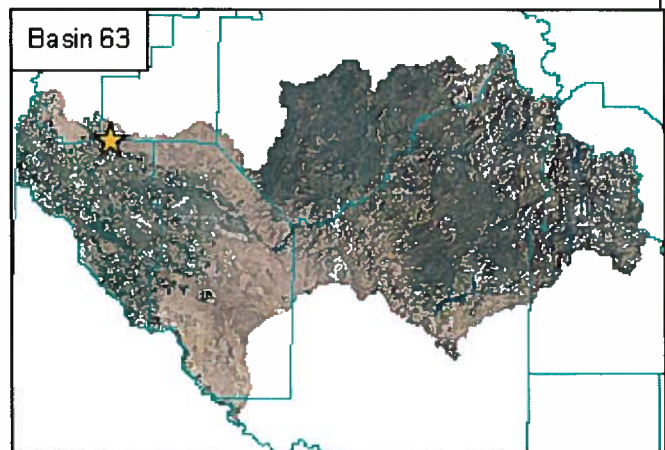
★ LOCATION IN BASIN

PLACE OF USE
TWP 05N, RNG 03W Sec 2
Data Entry on September 16, 2011



- Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

*GIS PLACE OF USE PRESENTATION
2009 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN*



Right 63-31208
Date 9-15-2011
Well head, looking south

Photos By Kay Walker

Handline prior to measurement. 5 heads on line
Looking south. Photo location just south of well head

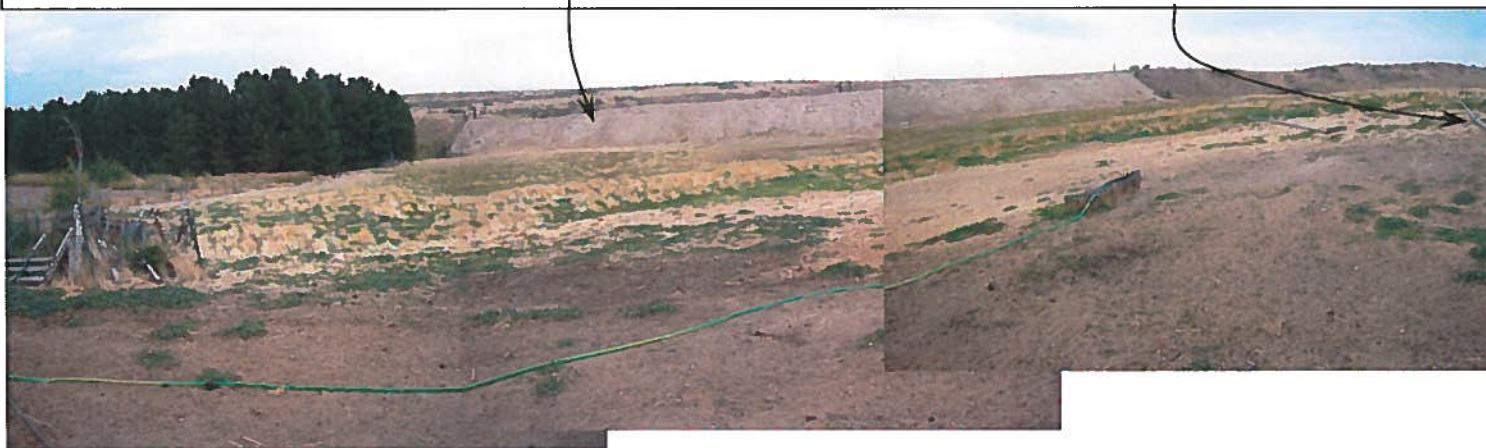


Right 63-31208
Date 9-15-2011
Looking northeast on the left to south on the right. Photo location $\approx$ 20 ft north of POD.

Photos By Kay Walker

Canal Bank

measured handline



Right 63-31208
Date 9-15-2011
Looking southwest.

Photo By Kay Walker



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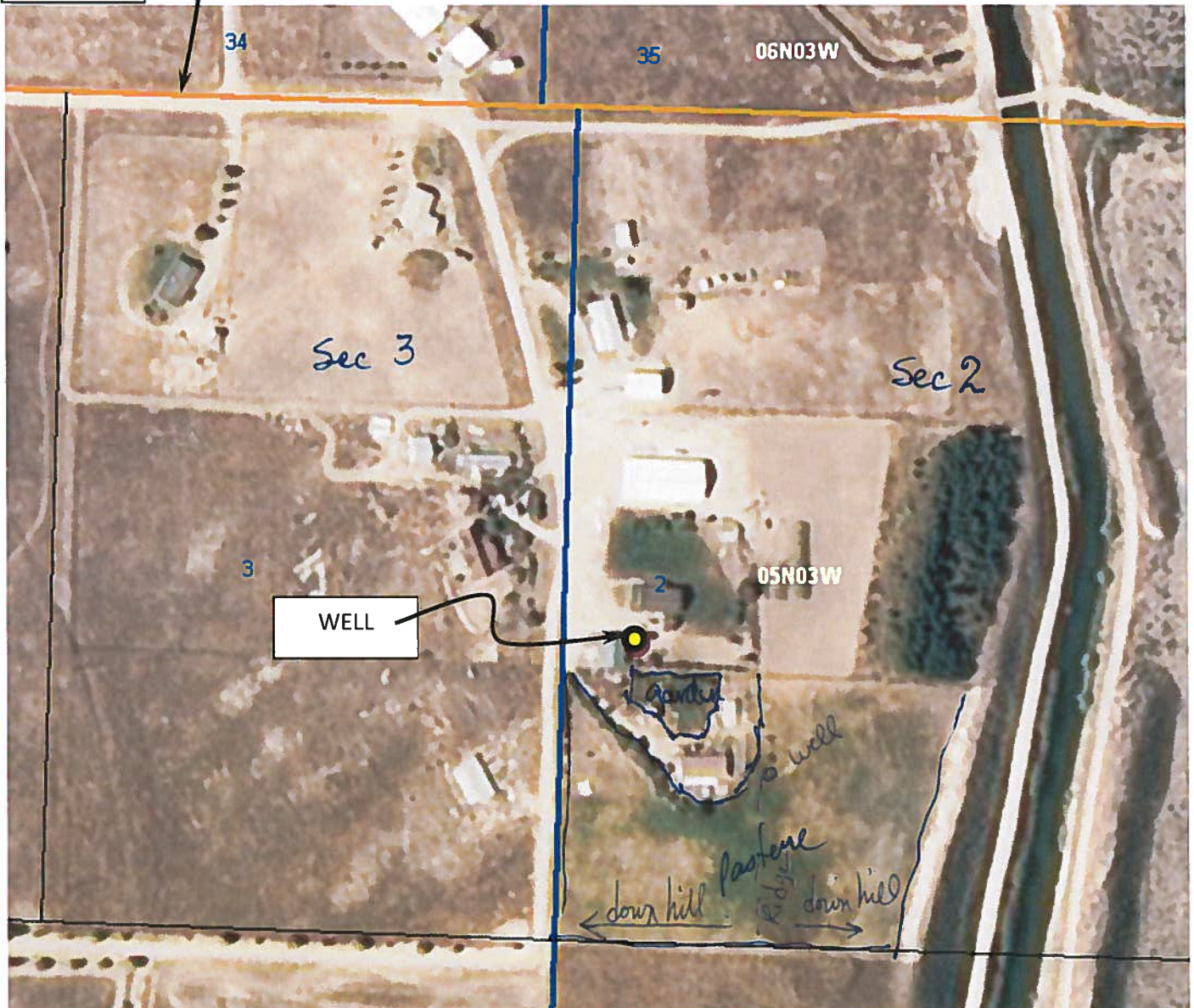
Agent KKC

Aerial photo date 2009

Twp Rng Sec QQ

05N 03W 02 NWNW

Oasis Rd



new pump in 2010 Sept
3HP. pump $\approx$ 200ft.

GPS 2285100
1403895



Google maps

9-15-11
efam notes KKC

To see all the details that are visible on the screen, use the "Print" link next to the map.



Run 7 leads
Rain bird 30
9/64 tip

System is well to handline. Isolated from
pressure tank domestic system.

32 psi

Kelly K. Christensen
Sept. 15, 2011