

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11787

Exam Date: 6/21/2012

1. Current Owner: GARRETT RANCHES PACKING
23935 HOMEDALE RD
WILDER ID 83676
(208)337-3133

2. Accompanied by: Gary Garrett
Phone No: same
Address:
Relationship to Permit Holder: Owner

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Boise Project Board of control shares
2. Other water rights with the same point of diversion: : None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NW1/4SE1/4 Sec. 1, Twp 03N, Rge 05W, B.M. CANYON County

Method of Determination: Field exam and GPS (43.624461 -116.876797)

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	
03N	05W	1													33.0	18.0		34.0	85.0
03N	05W	12	15.0	40.0	2.0	2.0													59.0

Total Acres: 144

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. Well or Diversion Pump Serial No. or Discharge ID No.* Motor Make Hp Motor Serial No. Pump Make

UNK (Submersible) 4" Discharge unk 40

D. FLOW MEASUREMENTS**1. Measurement**

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
------------------	-------------	-------------	------------------	-------------------	-------------	--------------------

2. Measurements: Theoretical

The calculations are based upon the horsepower provided by Greg Garrett during a 6-29-2012 phone conversation. The system is open discharge into a ditch system. The pumping level is partly based upon the well log that indicates a static level of 188 ft and a review of other systems in the area. It appears that the general drawdown is approximately 100 ft therefore I utilized 188' + 100' = 288' as a dynamic pumping level.

As this is a supplemental right the recommended rate is considered a beneficial use although it calculates to 0.006 cfs/ac.

$$\frac{(40) \text{ Hp} * 8.8 * 0.7}{(10) \text{ PSI} * 2.31 + 288 \text{ ft}} = 0.80 \text{ cfs}$$

$$\text{Permit Rate (irr)} = 3.80 \text{ cfs}$$

$$\text{Proof Pd } (\$175.00) \text{ (max cfs)} = 4.00 \text{ cfs}$$

$$\text{Found POU acres } 144 * 0.02 \text{ cfs/ac} = 2.88 \text{ cfs}$$

$$\text{Measured rate (theoretical)} = 0.80 \text{ cfs}$$

Recommendation in Red

E. FLOW CALCULATIONS

Measured Method:

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

$$V_{ir} \quad 144 \text{ ac} * 4.50 \text{ af} = 648 \text{ afa}$$

$$V_{D.R.} = [\text{Div Rate (cfs)}] * (\text{Days in Irr season}) * 1.9835 =$$

$$0.08 \text{ CFS} * 260 \text{ DAYS} * 1.9835 = 412 \text{ afa Recommendation}$$

0.80 cfs

The system capacity is the limiting factor for volume. As this is a supplemental right I am recognizing this right as a valid right.

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

The system is a well with a 40 Hp motor at the northern end of the POU (and the high point associated with the found POU) delivering water into the open ditch farm canal system. At that point, the water (well or canal) goes into a buried pipeline for gravity sprinkler irrigation. That pipeline runs south for 1/2 mile where it goes under the Homedale Rd just west of the office complex. It then flows west for approximately 1/8th mile to a pump station that pressurizes the water for wheel line irrigation of the ground south of the Homedale Rd. A small 5 to 6 acre parcel just west of the office complex is gravity flood irrigated. The majority of the farm is apple orchards.

No other water rights are associated with the well although when the well driller developed this well he also installed a 6 inch casing approximately 6 inches away from the irrigation well. Supposedly this was done in case the owner would ever want to build a home at this location and need a domestic well. The 6 inch casing is welded shut and the owner does not know anything about the actual physical construction of the domestic well. The wells are located within the permitted tract. The POU is primarily irrigated with Boise Project Board of Control water.

The permit was issued for 190 acres and I found 144 acres. The main difference was that there are a couple of farmsteads excluded from the POU and a 25 acre parcel devoted to the office complex and other owners all within the NENE of sec 12.

Each quarter/quarter in the S1/2NE1/4 of sec 12 is less than two acres but based upon current guidelines both were rounded up to 2 acres which slightly overstates the irrigated ground in those tracts. This permit was issued with a 3-15 beginning season of use. I am recommending the current standard of 3-01.

This is an M well with associated remarks regarding measurement and reporting. I am recommending that they be replaced with 01M.

The permit conditions indicated the water bearing zone as being from 210 ft through 450 ft. According to the well log, screens were installed at three different levels. The first from 210 through 230 ft, the second from 295 through 315 ft, and the third section from 430 through 460 ft which is in line with the permitted zone. This right is roughly 20 miles downstream from the ground water restricted area.

Have conditions of permit approval been met? ____ Yes X No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	3/1 to 11/15	0.80 CFS	412
<u>Totals:</u>		0.80 CFS	412

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above X None

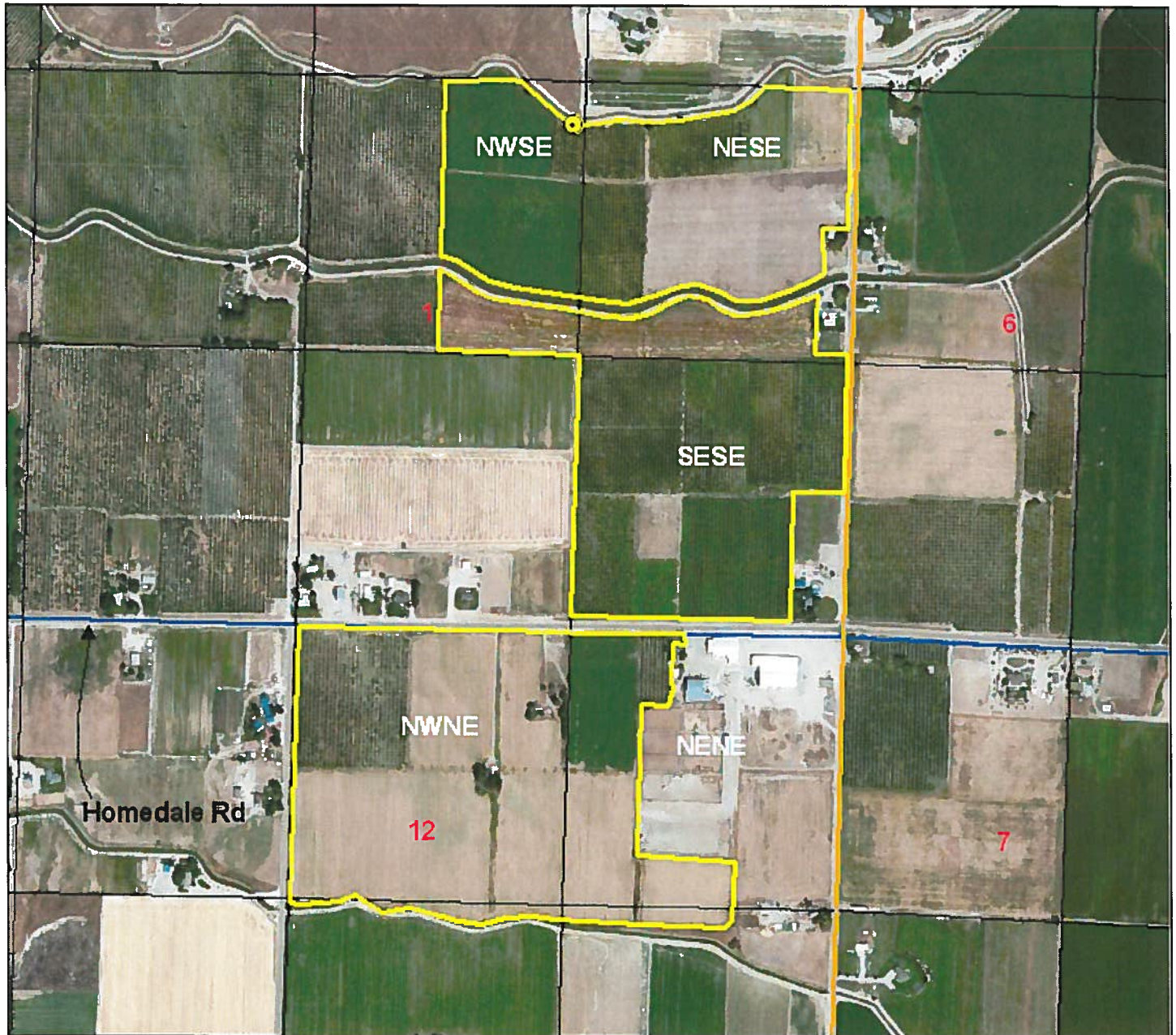
____ Change P.U. as reflected above ____ Add P.U. as reflected above ____ Other

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date Sept 17, 2012

Reviewer _____ Date _____

Idaho Department of Water Resources
63-11787 LICENSING PLACE OF USE



0 660 1,320 2,640
Feet

★ LOCATION IN BASIN

PLACE OF USE
TWP 03N, RNG 5W Sec 1 & 12
Data Entry on July 10, 2012



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

*GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN*

Basin 63



Permit # 63-11787

Exam date 6-21-12

Agent KKC

FIELD EXAM MAP

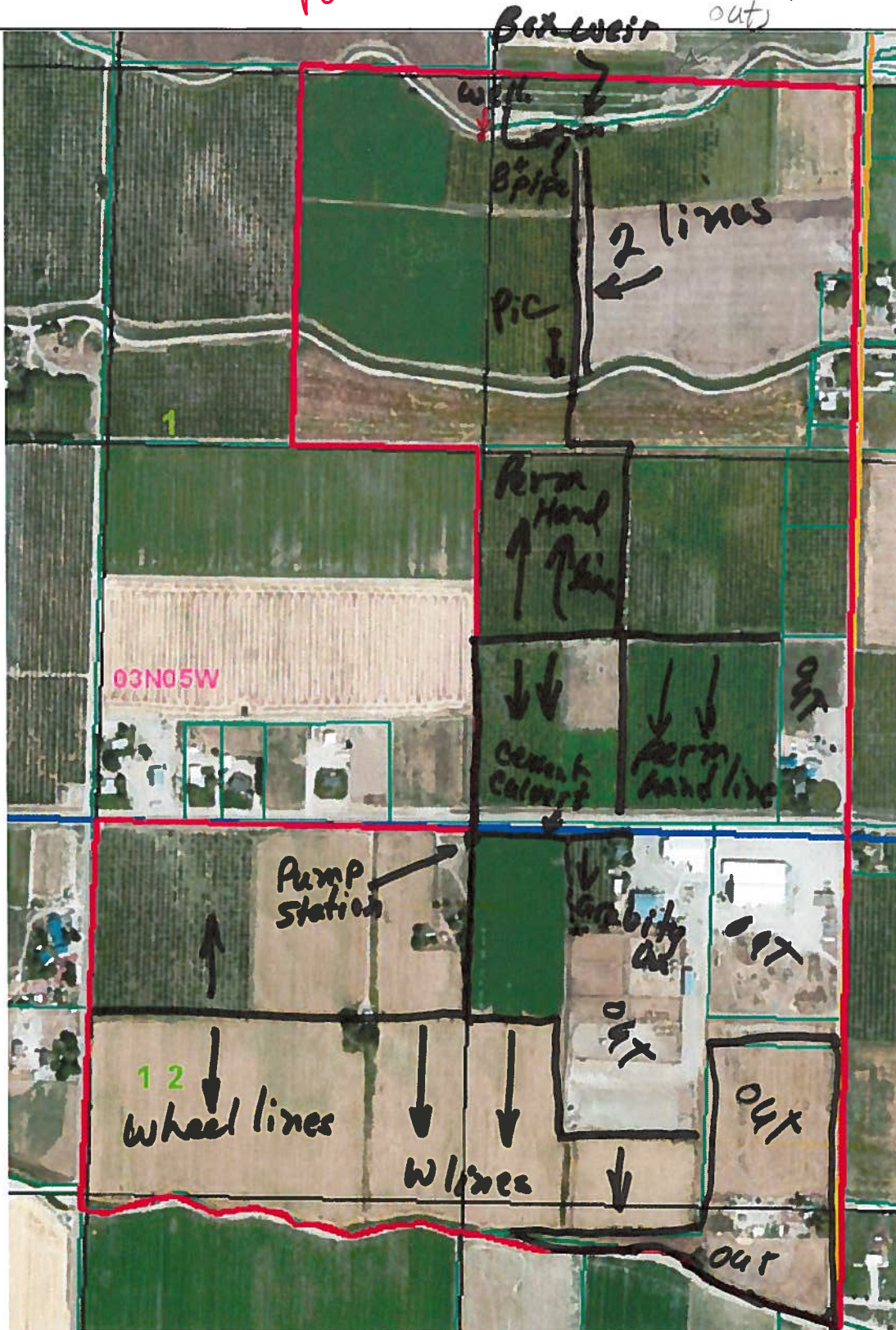
Aerial photo date 2011

Twp Rng Sec QQ

3N 05W 01 & 12

POD in Sec 1, NWSE

POD in Sec 1 NWSE



**IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM**

1. IDENTIFICATION # _____ (Tag #, etc.)

OTHER APPLICABLE # 63-11787 (Water right #, etc.)

2. OWNER Garrett Ranches Packing Phone 208-337-3183

Address 23935 Homedale Rd City Wilder

State ID Zip 83676 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. _____ Long. _____

Twp 3N Rge 4W Sec 6 $\frac{1}{4}$ SW $\frac{1}{4}$ SW

4. WELL CONSTRUCTION

☐ Well log ^{in system} attached

☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☐ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

12" casing $\approx$ 15" above gnd level.
2nd 6" casing $\approx$ 6" east of main well. Welded shut.

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft.

Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No

Pressure if measured _____ psi

NOTES _____

INSPECTED BY

Kelly K Christensen

DATE

7-11-12

6-28-2012

63-11788 Gary Garrett called

Well #1 = 100 HP (where Elect. panel full down
well driller report 142' static
351' pumping level
585 depth.
pumped 812 GPM

63-11787 Garrett Pack 40 HP

~~200' static~~
188' ^{static} pump level no pump test int.
469' deep

63-11786 Frank Garrett 75 HP
original in file

hillside sprinkler
178' static
380' pump level
450' deep
pumped 700 GPM.

COPY

11786

Exam date = 6-21-12

Kelly K. Christensen

~ 1 pic looking west @ GPS Point offset by
~ 70'. Sprinkler water lifting well. GPS #4

- 2 pics look SW @ well discharge into pipe sys
(buried)

- Well discharge could be plumbed to go over
weir (strip). This is a high point on the property

- 1 pic look So going down hill

well 50 or 60 HP

8" line discharge

11787

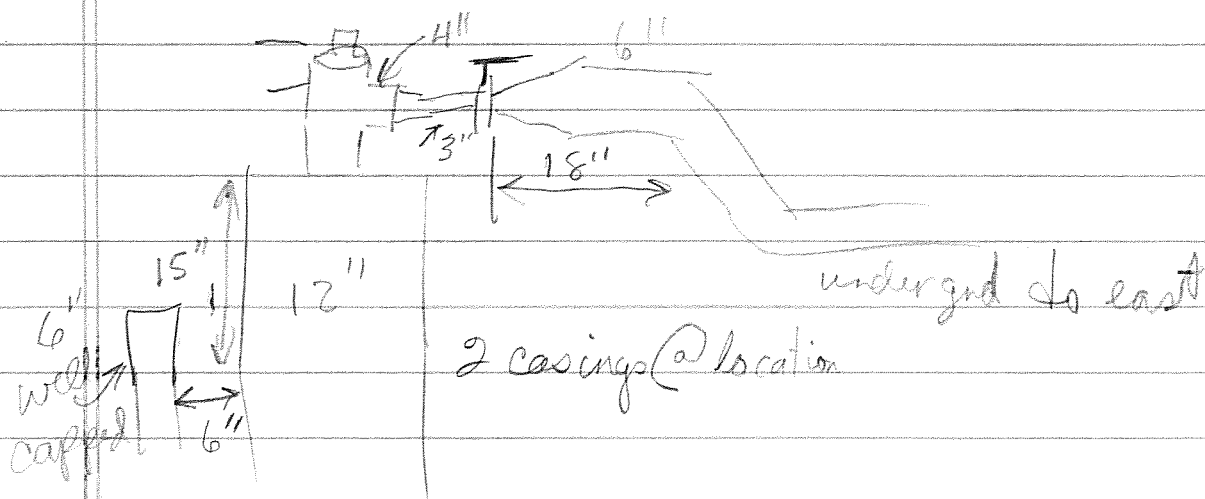
1 Pic look east @ pressure system

well line comes in from N under Road @ Tinlid

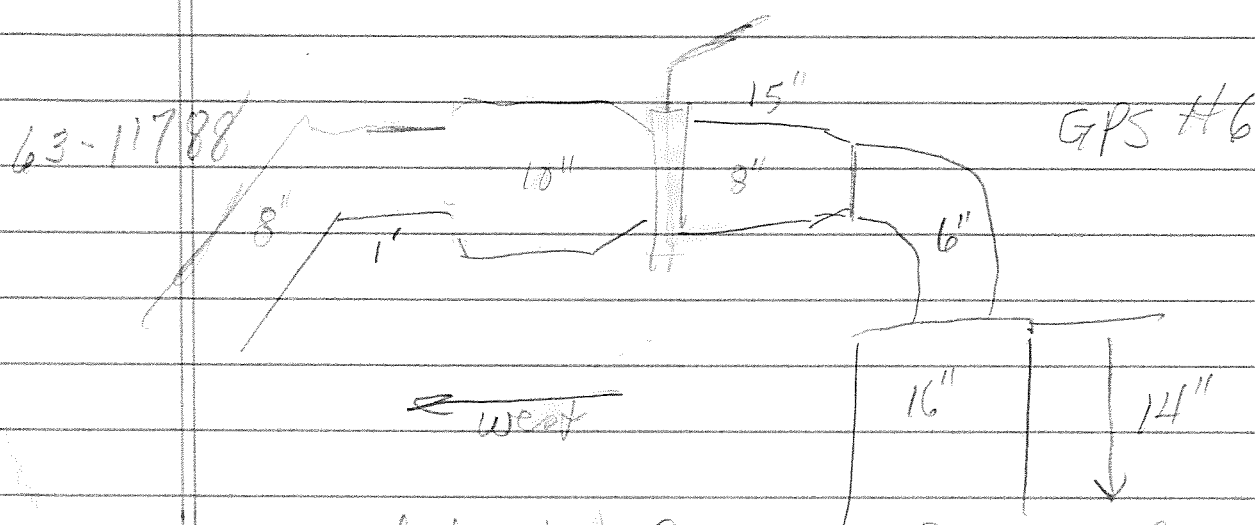
canal & pump in cement section well too in dry stream
from

1 Pic look east

GPS #5



1 pic looking So. Where Grou pressure line crosses canal. Mainline is 6" plastic inside the steel jacket.



1 pic look NW @ well. Elect Panel pole Broken
Laying on gnd. Says happened
last 4 days

1 pic look SW @ well & dist. system so. of canal
near trees.

1 pic look SSW @ mainline crossing canal to dist
system

Permit # 63-11787
Exam date 6-21-2012

FIELD EXAM Photos

Agent KKC

Photo 1

You are looking southeast in this photo. At the initial development of this well, the well driller installed a 6" casing in case the owner ever wanted to develop a domestic use at this site. It has never been used and is welded shut. Actual viability of this "casing" well is not known.

Unused 6" casing

well



Photo 2

You are looking east in this photo. The buried mainline for this system runs east approximately 350 ft paralleling the road. The line then enters the farm canal system at the box weir. The system then turns south into a gravity pressure system with sprinkler setups for the orchards. The 6" casing is behind the production well and cannot be seen.



Photo 3

You are looking south in this photo. This photo is approximately 875 ft south of the box weir mentioned in Photo 2 and shows where the mainline crosses the Deer Flat Low Line Canal. The mainline is a 6" plastic line inside the steel pipe shown in the photo. The ground south of the canal is a part of the irrigated POU.



Photo 4

You are looking east in this photo from the south side of Homedale Rd. This shows where the gravity system is pumped into a mainline system tied into wheel lines for the permitted POU south of Homedale Rd. This point is $\approx \frac{1}{4}$ mile west of Allendale Rd.

