

MEMORANDUM

TO: ADJUDICATION FILES 63-26655

FROM: DANIEL A. NELSON

DATE: 10/2/06

SUBJECT: CLAIM REVIEW

On 9/29/2006 I performed a field exam on the above file. I found the well, and the acres irrigated, but I also found some discrepancies that prevent me from making a final determination of the diversion rate and the source of water being used.

First I will speak to the source of water being used. The source of water on the file is listed as ground water. The well is located within 2 to 3 feet from a drain. I measured the water level in the well at 3.5 feet. I also measured the water level in the drain to the top of the well casing at 3.5 feet. This suggests that these two sources are hydraulically connected.

I ran my well probe down the well and found that the well is at least 37 feet deep. It could be deeper, but I did not have the equipment to properly determine actual depth. I am not aware of the well depths on the east side of Walters Butte, but I have some experience with well depths on the west side of the butte. Most of the wells are drilled at least 100 feet or more. There are several artesian wells on the west side of the butte, but they are in this 100-foot or deeper range. The owner told me that his well was artesian at one time, but I have no knowledge of any artesian wells on the east side of Walters Butte. Taking all of this information into account, I am concerned that this well was actually drilled to capture wastewater. Unfortunately, unless a study is done to determine the production of the well without the wastewater present, it is impossible to tell if the well is actually diverting ground water or wastewater.

The second issue is that the owner of the property does not own a pump for this well. He told me that he rents a pump from Rain for Rent each time he needs to use the ground water. The owner also told me that the last time he used the well was in the 1980's. This is a common practice for supplemental wells. He told me that he used a portable pump with a 6-cylinder propane Chevy engine. He did not know the horsepower of this engine, but he did say it pumped approximately 70 to 72 inches of water or approximately 650 gpm. I called Rain for Rent and spoke with Casey. Casey told me that they rotate out their pumps every 6 years, so there was no way he could get any information on a pump used in the 1980's. Without a pump or pump curve of former pumps that have been used, I cannot make a recommendation for the diversion rate. Therefore, I have no choice, but to recommend that this claim be disallowed. If the owner can supply some type of pump information that can allow the diversion rate to be verified, then we could determine the diversion rates and volumes for this right.

I did find a system in place that could be connected to the well by portable gated pipe. The entire farm is connected together by the gated pipe. The wastewater from these fields is re-used to properly irrigate the property. The water from the well is pumped up to the top or the east side of the farm to a control box. Boise Kuna Irrigation District water flows into this control box and is distributed through out the farm. There is piping in place to run the well water up to this control box. I found 61 acres currently being irrigated from canal water on this system.

If a rate of flow can be determined, this supplemental irrigation right can be recommended for the 61 acres of irrigation. The rate and volume will need to be determined once the flow rate is verified.

SWSV

T1S R2W S14

SWNE
28 acres

SENE
32 acres



PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 9/29/2006

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The top picture shows the well. The well is listed as 35 feet deep. However, as you can see from the location of the well to this waste ditch, it appears as though this well is actually influenced by the waste ditch. The water level in the well and the waste ditch were identical, so I am assuming that they are hydraulically connected. The owner stated that the reason that this well was placed so close to the drain was that it used to be a artesian well. There are other artesian wells in the area, but they are mainly located on the west side of Walters Butte. This well is located on the east side of Walters Butte, and I have not hear of any artesian wells on this side.



This photo is a closer in shot of the well.



This photo shows the headgate for the canal water. The well water is pumped up to this point to irrigated the lands east of the drain. A gated pipe is taken directly out of the well for the lands to the west of the drain.

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The photo above is of the filed west of the drain ditch running through the property. The well is located in the trees on the left and the gated pipe used to move the water to this field is to the right.

The photo below is of the upper fields. The water is delivered through the gated pipe to the left of the photo to the cement structure. There are two gated pipes shown in the photo. One irrigates the field and the other delivers wastewater and well water back to the top of the field.



ADDITIONAL INFORMATION NEEDED FOR IRRIGATION FIELD EXAMS

Field Examiners, please complete the following checklist. Mark "unknown" or N/A if information doesn't apply or information is unavailable.

IF CURRENT OWNER DOES NOT MATCH PROOF REPORT PLEASE GIVE NEW OWNER CHANGE OF OWNERSHIP FORM TO COMPLETE.

1.) Pump information:

OWNER ESTIMATED
75 inches.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
well	UNKNOWN		NO pump @ site.		

- Rented Pump

Rain For Rent.
Nampa.

2.) Lift (distance from pump to water) 3.5 FT

3.) How was lift determined (well log, measurement, owner)? meas.

4.) Pressure against pump (this is checked using the owner's psi gauge, your gauge, or an estimate by owner) NO pump

5.) Was a measurement made? NO If no can a measurement be made at a latter time? NO

6.) What type of measurement device was used? None

7.) Is there a pump curve available for pump? NO.

8.) Please fill out the following:

Number of sprinklers _____

Sprinkler nozzle size _____

Number of Pivots (include gpm rating for each pivot) _____

Crated pipe.

Ran well
PROBE TO
BOTTOM
OF well
@ APPROX.
37 Feet.

NOT
SURE
IF PROBE
made it
TO BOTTOM
OF well.

9.) Please outline all acres irrigated on attached aerial photo. DONE

10.) Please clearly mark all points of diversion on map and GPS. DONE

11.) Please clearly mark all mainlines, ditches, and other conveyances.

 DONE

12.) Pictures taken of place of use and point of diversion. DONE

13.) Please show where and how water from other sources are diverted into the irrigation system.

FIELD EXAMINERS NOTES (descriptions, other uses, questions, ect.)

Called RAIN FOR REAST
FRIDAY 9-29-06 LEFT
MESSAGE WITH CASEY

Called CASEY 10-2-06 -

He said they did have a couple
PROPANE MOTORS, BUT HE WAS
NOT SURE WHICH ONE WAS
USED. THE ROTATE OUT THE
PUMPS EVERY 6 YEARS, SO
HE NO LONGER HAS ANY
INFORMATION ON THESE
PUMPS.
NO HELP?

DATE EXAM CONDUCTED 9-29-06

FIELD EXAMINER Don Melke



This way
TO west Field.

well

Water
Pumped BOTH ways

This way TO
CONTROL BOX

