

MEMO

FOR: 37-8553 DeChevrieux

FROM: Sandy Hemenway

DATE: 9/20/2010

REF: Phone Conversation with Mr. DeChevrieux to obtain additional information.

In 2 phone conversations with Mr. DeChevrieux, the following items were discussed:

System Description

Mr. DeChevrieux went over some missing information in the 7/16/2007 field exam, that describe the system: 8 inch casing, 2-(5 Hp) submersible variable pumps (one for the house, and one for irrigation---), 143 ft deep, static 60 feet, 2 inch discharge to 4 inch buried PVC reducing to 2 inch, then reducing to 1 1/2 inch and 1 inch PVC at different locations/zones. An average of 15 - 16 Hunter 500 number 6 low angle pop-up nozzles (2.8 gpm/nozzle) per zone, 10 zones, 50 psi, and located where the trees are irrigated are 150 Hunter PCN Bubbler Nozzles (0.9 gallon/hour/ft).

Physical Measurement

During the 7/16/2007 Field Exam, Hunter low angle nozzle 13 degree trajectory nozzle number 6, at 50 psi, equals 2.8 gpm per nozzle were tested. There are 10 zones with each zone averaging 15 - 16 nozzles of 2.8 - 3.0 gpm capacity. During the exam, 16 nozzles were running at the same time, with number 6 Hunter nozzles (2.8 gpm). $16 \times 2.8 \text{ gpm} = 44.8 \text{ gpm} \times 0.00223 = 0.0999 = 0.10 \text{ cfs}$. (See Hunter Nozzle Data sheet in file).

Beneficial Use

Irrigation is for 3 acres of lawn, garden, trees, and the surrounding grounds, which are "in connection with domestic use." Domestic use is for the shop and garage currently, until the house is completed, and horses.

POU Overlap

NONE. Administrative Area information shows Fall Creek Sheep Co, and Baseline Canal Co. overlapping, but Mr. DeChevrieux stated that he does not own any shares, nor does he have any other supplemental water source.

Easement

The easement that is referenced in the Request for Extension of Time, is an easement for the power pole (for Idaho Power). The property where the POU/POD are located are owned by Mr. DeChevrieux.

Recommended Capacity of System

The amount obtained from the physical measurement during the 7/16/2007 Field Exam, using the nozzle calculations of 0.10 cfs, will be recommended for the capacity of the system. This is due to a large discrepancy between the Theoretical and the Well Drillers Report pump test, and since no polysonic or pump curves were obtained to confirm if the capacity should be higher. Mr. DeChevrieux agreed with this determination.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8553

Exam Date: 7/16/2007

1. Current Owner: WICK STEP LLC
PO BOX 615
BELLEVUE ID 83333
- AND/OR
- AARON M DE CHEVRIEUX
PO BOX 615
BELLEVUE ID 83313
- AND/OR
- STEPHANIE J EISENBARTH
PO BOX 615
BELLEVUE ID 83313

2. Accompanied by: Aaron M. De Chevrier
Phone No: 208-761-2919
Address: Same
Relationship to Permit Holder: Owner

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: None

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

GROUND WATER

NW1/4NW1/4NE1/4

Sec. 36, Twp 01N, Rge 18E, B.M.

BLAINE County

Method of Determination: GPS 2479245/1353466

2.

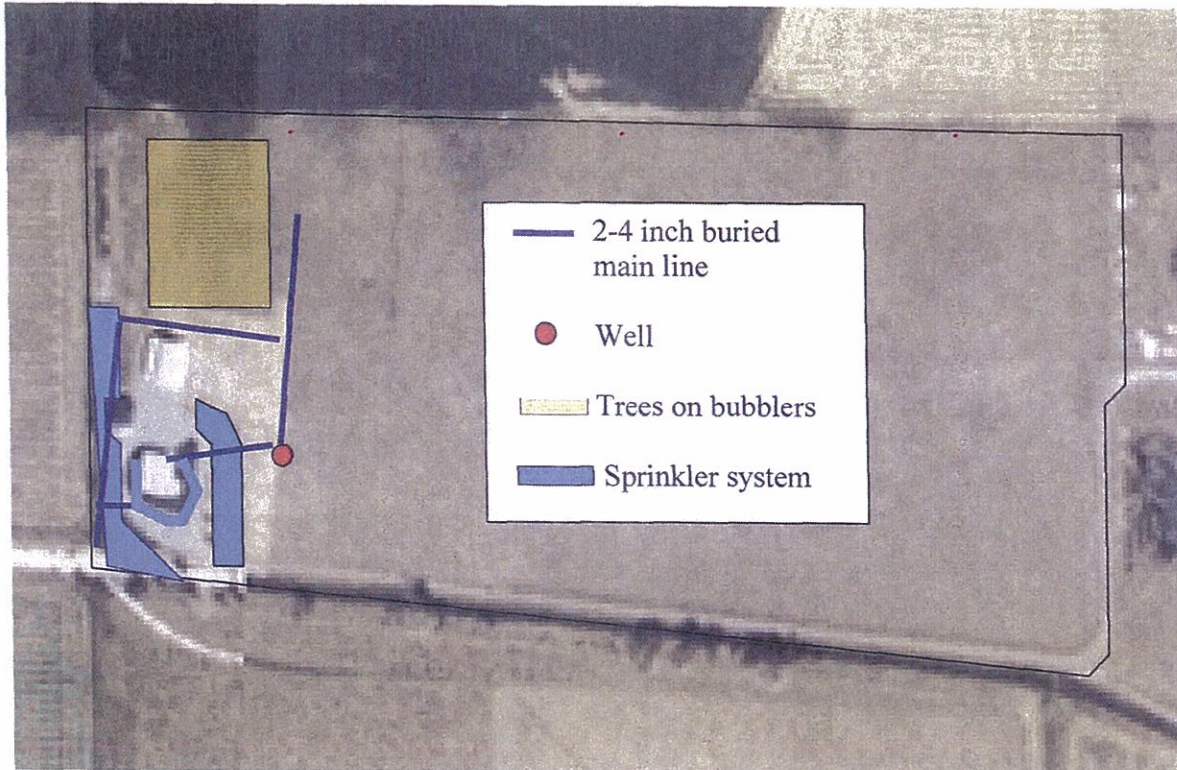
PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
01N	18E	36	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	3.0

Total Acres: 3

DOMESTIC same as IRRIGATION

Delivery System Diagram:



Method of Determination:

3. ☒ Delivery System Diagram Attached (Above). 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>

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

Well has submersible pump, owner does not have any documentation or knowledge of the pumps make, model, or size.

D. FLOW MEASUREMENTS

Owner has sprinkler system with 3-4 gpm sprinkler heads. Owner demonstrated that one zone of 16 sprinkler heads was able to flow at approximately 50-60 gpm. System capacity is above the 40 gpm allowed by the water right.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3 \text{ acres} \times 3.5 \text{ af/acre} = \mathbf{10.5 \text{ afa}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses:

$$\text{a. Domestic} = \mathbf{0.6 \text{ afa}}$$

G. NARRATIVE/REMARKS/COMMENTS

The 3 acres of irrigation are part of a 23-acre parcel of land. The well has the capacity to produce approximately 60 gpm, which is well above the allowed diversion rate for this water right. The system has changed slightly since the last change of ownership, however the updated system does not exceed the 3 acres of irrigation. The domestic use is currently attached to a shop that is used as the living quarters until the house can be built.

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	4/15 to 10/31	0.090 CFS	10.50 AF
DOMESTIC	1/01 to 12/31	0.040 CFS	0.60 AF
<u>Totals:</u>		0.090 CFS	11.10 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

Season of Use etc.

I. AUTHENTICATION

Field Examiner's Name NATHAN ERSICKSON Date 7/25/07

Reviewer Sandy Hemmenway Date 9/20/2010

Idaho Department of Water Resources

WR 37-8553



- ⊙ Right POD
- ▬ POU
- ▬ Sections
- ▬ Blaine taxlots
- ▬ Quarter Quarters

300 0 300 600 Feet



Prepared By N. Erickson
On Wednesday, July 25, 2007
2004 Aerial Photography

WR 37-8553

Field Exam 7/16/2007

N. Erickson and B. Walker

Well Head:



Sprinkler System:



Trees on bubbler system:



Temporary living quarters and garage:



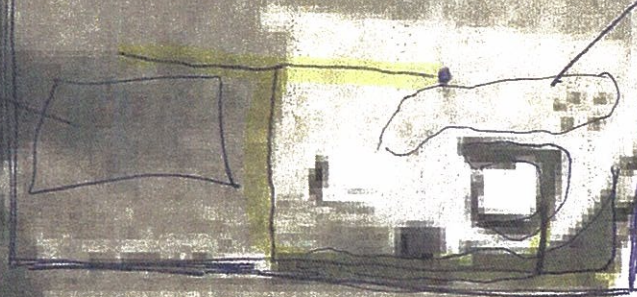
450
60

16 SPINKLER @ 3.4 GPM

2 RUMPS
8HP?

SPINKLER
SYSTEM

DEPT (BUNKER)



The lat/long you provided was 43° 22.906' N; 114° 15.374' W
Here are the results:
NW quarter of the NE quarter of Section 36, Township 01N, Range 18E
IDTM NAD83 coordinates: Easting=2479245; Northing=1353466



Choose the map-display background:



☐ Wells ☐ Water Rights ☐ Water Right Permits ☐ Adjudication Claims ☐ Adjudication Recommendations

* Positions of wells/headgates may be based upon the center of a quarter-quarter section; those obtained by GPS or survey are accurate.

GPS LOCATION OF WELL 7/16/07

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

IDAHO DEPARTMENT OF WATER RESOURCES

STAFF ANALYSIS SHEET FOR BENEFICIAL USE FIELD EXAMS:

PERMIT NO. 3708553

A. Items To Be Placed In Exam File (Items A & B to be Completed by Compiler)

- (☒) Blank Field Report & Notice of Completed Exam
- (☒) Copy of App. for Permit, Approved Permit, Amendments, Orders, Assignments, Proof of Beneficial Use, SRBA Claim (Claim Filed? _____ Required? _____)
- (☐) Well Inspection Form, Dairy Water-Use Worksheet (if applicable)
- (☒) Well Log(s) & Groundwater Measurement Analysis Form (if applicable)
- (☐) Copy of Orthophotoquad Map
- (☒) 660-Scale Aerial Photo (Examiner Will Obtain If Applicable)
- (☐) Government Lot Plats (If Applicable)

B.1. P/D Overlap - Yes or ☒ No? If Yes, Include Copy of Overlapping Rights & Claims

- If Yes, Type of Overlap: (☐) Add Acres or Uses to Existing System
(☐) Increase Rate of Flow or Volume

B.2. P/U Overlap - Yes or ☒ No? If Yes, Include Copies of Overlapping Rights & Claims

- If Yes, Type of Overlap: (☐) Increase Rate of Flow or Volume
(☐) Add Supplemental Water Source
(☐) Increase Acres Within Tracts

C. Field Exam Appointment Made:

Date 7/16/07 Time 10:00 Place BELLEUE

Contact Person & Phone AARON DECHEVREUX 208-761-2919

D. Post-Exam Review & Processing

Exam Completed 7/16/07 Notice of Completion Turned In _____
Field Report Completed 7/25/07 Nathan Ensher 7/25/07
Signature of Examiner & Date
Field Report Reviewed by Sr. Agent _____ (Initial & Date)
Field Report Reviewed by Region Mgr. ADm 7/30/07 (Initial & Date)
Field Report Sent to S.O. _____ Region Card File Updated _____