

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8345

Exam Date: 4/28/2011

1. Current Owner: HAAGSMA FAMILY TRUST
JOHN AND SHARON HAAGSMA TRUSTEES
1700 S ELDERBERRY CT
ONTARIO CA 91762
2. Accompanied by: Via phone conversation with Butch Veenstra
Phone No: (760) 954-6223
Address:
Relationship to Permit Holder: Original permit holder

3. SOURCETRIBUTARY

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
GOODING County

SE1/4NW1/4

Sec. 5, Twp 08S, Rge 14E, B.M.

Method of Determination: Updated to a GPS point (A0011860) from the spatial database. Permit has two original points of diversion listed in the same QQ. Research of Department records show the second well which has been capped appears to have never been used. The original permit holder via phone conversation on 4/28/2011 confirmed the dairy only used one well at the time of development. I recommend the second point of diversion (A0011880) be dropped from the license.

PLACE OF USE: COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
08S	14E	5								X									

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
08S	14E	5								X									

Method of Determination: 2004 Aerial photography.

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- X Aerial Photo Attached (required for irrigation of 10+ acres).
- X Photo of Diversion and System Attached

4.

<u>Well or Diversion 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 Size</u>
A0011860	subm.	7.5			2 " mainline

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Portaflow	Sonic	FUJI				10/4/2007

2. Measurements:

A ten minute average flow measurement of 35.3 gpm or 0.08 cfs was recorded in the WMIS database on 10/4/2007.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Polysonic flow meter: Maximum flow for commercial use = 35.3 gpm or 0.08 cfs. (see attached WMIS records)

The measured rate is the controlling factor and is very close to the calculated rate from the dairy spreadsheet. (see attached) Recommended rate of 0.08 cfs for stock and commercial use for the license.

TOTAL COMMERCIAL RATE: 0.08 CFS**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{N/A}$$

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

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

2. Volume Calculations for Other Uses:

System capacity volume: $0.08 \times 1.9835 \times 365 = 57.9 \text{ AF}$

Stockwater use:

Calculations for **stock** consumption based on 700 milking cows.

Total **stock** volume calculated from *Attached Dairy Spreadsheet* = 22.6 AFA

Total Stock Volume: 22.6 AFA

Total **commercial** volume calculated from *Attached Dairy Spreadsheet* = 27 AFA

Total Commercial Volume: 27 AFA

Total Consumptive Volume: 49.6 AFA

G. NARRATIVE/REMARKS/COMMENTS

Permit 36-8345 in the name of Haagsma Family Trust is for stock and commercial use for a dairy facility in the Hagerman area.

The permit 36-8345 in the name of Veenstra Dairy II lapsed on June 2, 1989 due to proof not filed. Applicant provided reasonable cause for reinstatement of permit by submitting an acceptable proof of beneficial use. As a result the permit was reinstated with an advanced priority date of April 9, 2001. On March 19, 2007 an Assignment of Permit was submitted to the Department conveying the permit to Haagsma Family Trust.

The permit lists two points of diversion. One well (A0011860) appears to be the only point of diversion that was ever developed. WMIS database records indicate another well (A0011880) as being abandoned/capped at the dairy site. Cindy Yenter verified this on 4/29/2011. (see pictures) Also, Butch Veenstra, the original owner, did not recall a second well ever being drilled or used. There are no records of a drill log to support if the second was originally drilled as an old domestic or a test well and no record if it actually ever produced. It is recommended that the second well be dropped from the license for lack of beneficial use.

The original well (A0011860) has WMIS records of several flow measurements that were recorded with the Departments Polysonic meters. As a result the measured flow is the controlling factor and a rate of 35.3 gpm or **0.08 cfs is recommended for both stock and commercial use.**

Unfortunately, the WMIS volumes recorded for the dairy are poor data because of the fact that the dairy flow meter is broken. Therefore the recommended volumes for the facility have been calculated from the original claim of 700 milking cows and the IDWR dairy spreadsheet. To allow for flexibility in the dairy operation a combined total of **49.6 AF (22.6 AF + 27.0 AF) for the stockwater and commercial use is recommended.**

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
COMMERCIAL	01/01 to 12/31	0.080 CFS	49.6 AF
STOCKWATER	01/01 to 12/31	0.080 CFS	49.6 AF
<u>Totals:</u>		0.08 CFS	49.6 AF

3. Recommended Amendments – (Remove 2nd POD, no amendment required)

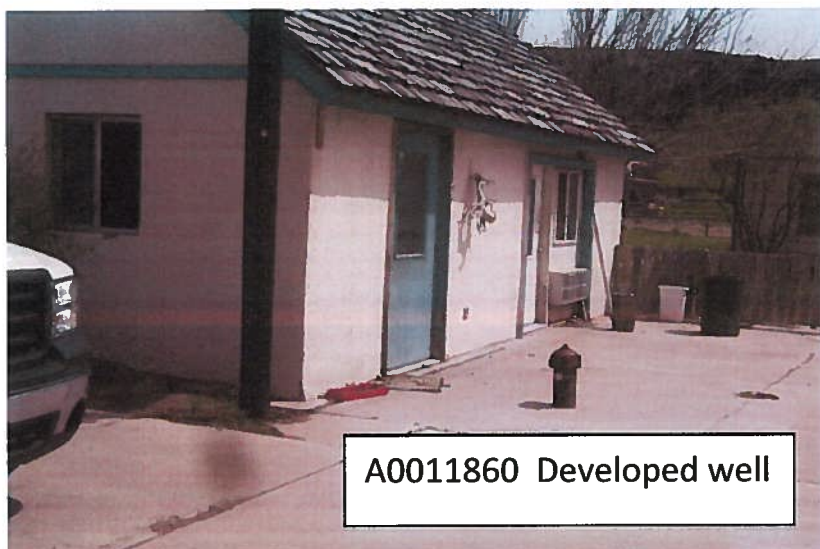
___ Change P.D. as reflected above ___ Add P.D. as reflected above ☒ None

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

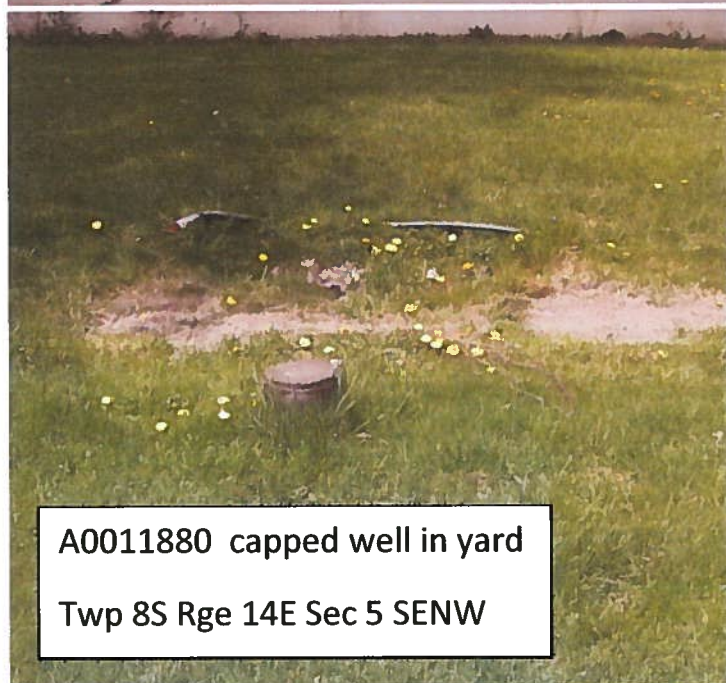
I. AUTHENTICATION

Field Examiner's Name Sara Reed Date 5/16/11

Reviewer [Signature] Date 5/16/11



A0011860 Developed well



A0011880 capped well in yard
Twp 8S Rge 14E Sec 5 SENW



FILE NUMBER _____ Haagsma Family Trust 36-8345
REVIEWER _____ JJR

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE _____ 700
NUMBER OF DRY CATTLE _____ 0
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS _____
3-4 MONTHS _____
5-8 MONTHS _____
9-12 MONTHS _____
13-15 MONTHS _____
16-24 MONTHS _____
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF
SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS _____ 3
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN _____ 40
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) _____ 5.00
OPERATION TIME OF SPRINKLERS (MIN/DAY) _____ 90
NUMBER OF MILKINGS PER DAY _____ 3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) _____ 70
HOURS PER DAY PUMP OPERATES FOR STOCKWATER USE _____ 12.0
HOURS PER DAY PUMP OPERATES FOR COMMERCIAL USE _____ 12.0
IS RECYCLED WATER USED TO FLUSH MILKHOUSE AND PARLOR FLOORS? _____ Y
IS RECYCLED WATER USED TO WASH COWS? _____ N
IS A PLATE COOLER USED? _____ Y
IS RECYCLED WATER USED FOR PLATE COOLER? (IF NO PLATE COOLER,
LEAVE BLANK) _____ N
IF CORRAL MISTERS ARE USED: NUMBER OF MISTERS IN HOLDING PEN _____ N
NOZZLE DISCHARGE (GPM) _____
OPERATION TIME OF MISTERS (MIN/DAY) _____
DAYS PER YEAR MISTERS ARE USED _____

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER
MILKING CATTLE (BASED ON MILK PRODUCTION) _____ 0.07
DRY CATTLE @17.0 GPD/HD _____ 0.00
REPLACEMENT CATTLE _____ 0.00
TOTAL _____ 0.07

COMMERCIAL
TOTAL _____ 0.07

TOTAL DIVERSION RATE _____ 0.14

DIVERSION VOLUME (AFA):

STOCKWATER
MILKING CATTLE _____ 22.6
DRY CATTLE _____ 0.0
REPLACEMENT CATTLE _____ 0.0
TOTAL _____ 22.6

COMMERCIAL
WASHING OF BULK TANK AND RELATED EQUIPMENT _____ 0.6
BACKFLUSH _____ 0.0
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP _____ 0.0
CATTLE WASHING BASED UPON METHOD OF WASHING _____ 20.2
PLATE COOLER _____ 6.3
CORRAL MISTERS _____ 0.0
TOTAL _____ 27.0

TOTAL DIVERSION VOLUME _____ 49.6

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER _____ 22.6
COMMERCIAL _____ 27.0
TOTAL CONSUMPTIVE USE _____ 49.6

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP) _____	7.50		0.00	0.00	0.00
LIFT (FT) _____	90		0	0	0
DISCHARGE PRESSURE (PSI) _____	45		0	0	0
FRICTION LOSSES (FT) _____	0.0		0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES _____	12.0		0.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) * _____	0.24	0.00	0.00	0.00	0.00
DIVERSION VOLUME (AFA) ** _____	86.2	0.0	0.0	0.0	0.0

* PUMP EFFICIENCY WAS ASSUMED TO BE 70%.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE)

DIVERSION RATE _____	CFS
ACRES OF IRRIGATION _____	ACRES
DIVERSION VOLUME _____	AC-FT/AC
CONSUMPTIVE USE VOLUME _____	AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)? _____	

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE _____	#DIV/0!	CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE _____	0.0	ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME _____	0.0	ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE _____	0.0	ACRES