

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-22881

Exam Date: 12/9/2014

1. Current Owner: MARIANNE KRAMER
478 E 400 S
FAIRFIELD ID 83327
(208)764-2378

And

JIMMY D KRAMER
478 E 400 S
FAIRFIELD ID 83327
(208)764-2378

2. Accompanied by: In-office exam
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

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

GROUND WATER SE1/4NW1/4 Sec. 15, Twp 02S, Rge 15E, B.M. CAMAS County

Method of Determination: Visual inspection/GIS, owner description of location

2. PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<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>	
02S	15E	15					X			X									

Method of Determination: Visual inspection/GIS, owner description of locations

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 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>
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D0020057		1 1/2			

*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>
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2. Measurements: N/A

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method: Theoretical

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$$150 \text{ cows} \times 12 \text{ gpd} \times 365 = 2 \text{ af}$$

325,850

G. NARRATIVE/REMARKS/COMMENTS:

This permit was split when it was determined that the two wells were not connected and the permit represented two systems. The split right is 37-22906. In conversation with Marianne Kramer she confirmed the lack of connectivity between the wells and described where the wells, storage tanks and stocks were located. She also confirmed the well pump size and well logs and number of cattle generally using these tanks. Wells are run on a generator which turns on to fill the storage tanks. Both systems then rely on gravity-filling stocks tanks from the storage tanks.

Calculating volume based off of the number of animals the storage tanks would require a storage component to the water right. However, calculating the volume that can be produced with the diversion rate of 0.02 cfs, a storage component is not required based on the 24-hour fill rule. The permit was approved based off of the 24 hour fill rule per the diversion rate. The license should reflect how the permit was approved.

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>
STOCKWATER	01/01 to 12/31	0.020 CFS	~~1.00 AF~~ 250 000 (unc)
	<u>Totals:</u>	0.020 CFS	~~1.00 AF~~ 250 000 2/1/13

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

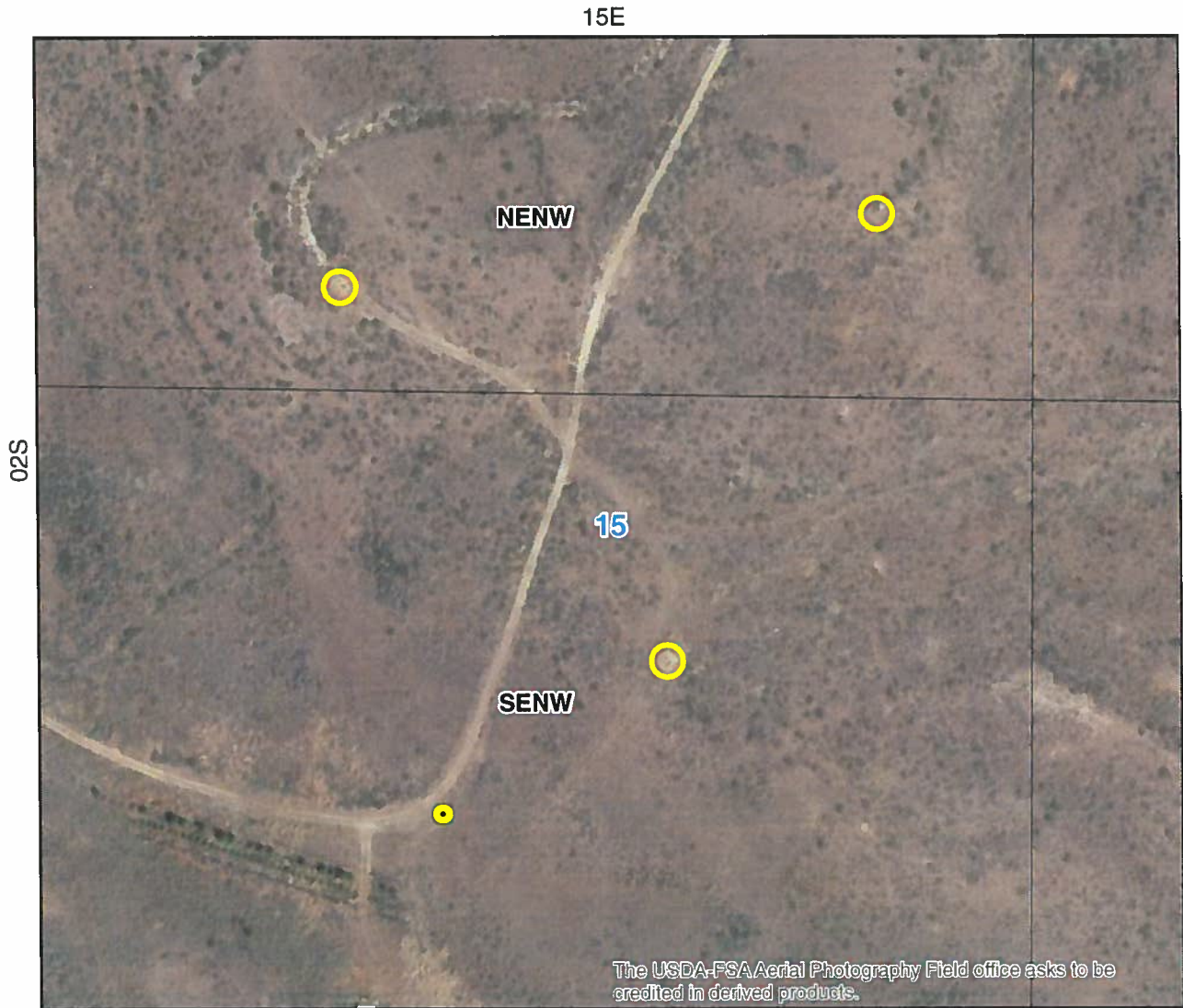
Field Examiner's Name Michael Ciscell Date 12/9/2014

Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)								
Water Right No.:	37-22881							
Reviewer:	Michael Ciscell							
Date of Review:	12/8/2014							
P/D No.:D0020057	Scenario 1	Scenario 2	Scenario 3					
PUMP HORSEPOWER	1.5	1.5	1.5					
BOOSTER HORSEPOWER	0	0	0					
PUMPING LEVEL	240	240	240					
DISCHARGE PRESSURE	45	45	45					
RATE OF FLOW (cfs)	0.03	0.03	0.03				AVE	
(gpm)	12.1	12.1	12.1				0.03	
							12.06	
The above calculates the formula =	Q =	$8.8 * (\text{Efficiency}) * \text{hp}$ $\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}$						
Assumptions:	%70 efficiency. No Friction							
Examiners Notes:	Data collected from Application for Permit and from discussion with applicant. Well discharges into a 5000 storage tank. To determine the well capacity before the storage tank assumed discharge pressure of 45 psi. This was determined by lift of 80' from from well to storage tank and an assumed 10 psi discharge pressure from the pipe: $(80 / 2.31) + 10 = 44.6$. Since the above theoretical contains several assumptions, I think it is reasonable to support the 0.02 cfs capacity recommended by the field examiner.							

State of Idaho
Department of Water Resources
Field Exam for Water Right License
37-22881

This map depicts the STOCKWATER place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.02 0.04 0.08 Miles



Water Right 37-22881: System Diagram

Well with 1 1/2 hp pump pumps water to 5000 gallon storage tank. Water is gravity-fed to 3 stock tanks regulated by floats.

