

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-316611. Owner Louis +/- Richard MurgotioPhone No. 362-1262Current address 7373 Maple Grove2. Examiner's name Angie GrimmEXAM DATE 06/22/20123. Accompanied by Lou + Victoria Murgotio

Email _____

Address SameRelationship to permit holder Same

Phone No. _____

4. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 63-179452. Other water rights with the same source and point of diversion 63-17945**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			NE	SE	2	2N	1E	ADA	GPS

2. Place(s) of Use:

Method of determination Aerial photo w/ field verification

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	1E	2													S				

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Hand Dug 1930		1			1 1/4"
		1/2			1"

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NA						

2. Measurements: _____

Theoretical only, no place to take measurement

E. NARRATIVE/REMARKS/COMMENTS

See Attached Memo

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

[illegible]

F. FLOW CALCULATIONS☐ Additional computation sheets attachedMeasured Method:
HP EquationPump 1 => 1HP, 84' BGS, 52 PSI, TDH = 84-10 = 74' BGS; $Q = (0.7 \times 8.8 \times 1)/(74 + (2.31 \times 52)) = 0.03 \text{ cfs}$ Pump 2 => 1/2 HP, 84' BGS, 52 PSI, TDH = 74' BGS; $Q = (0.7 \times 8.8 \times 1/2)/(74 + (2.31 \times 52)) = 0.02 \text{ cfs}$ **G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\text{NA}}$ $V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\text{NA}}$ $V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = \underline{\text{NA}}$ 2. Volume Calculations for Other Uses:
Stockwater

2.7 afa (per admin AP memo no 3)

 $0.05 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 36.2 \text{ afa.}$ **H. RECOMMENDATIONS**

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Stockwater	01/01	12/31	0.05 cfs	2.7 afa
Totals:			0.05 cfs	2.7 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

Date 09/25/2017

Reviewer

Date

SEAL

MEMORANDUM

TO: Water Right 63-31661 File
FROM: Cody Parker
RE: Summary of field exam completed June 22, 2012
DATE: September 25, 2017

Permit 63-31661 was approved on July 2, 2003, authorizing the diversion of 0.05 cfs from groundwater for stockwater use. Proof of beneficial use was submitted on June 28, 2006. On June 22, 2012, Angie Grimm completed the field examination for the permit. This memorandum summarizes the findings of Angie's report, acting as its narrative. The water right license has been drafted based on the recommendations from her report.

The POD for this permit is a 110' deep well that was hand dug in the 1930's. The well does not have a metal tag. The field report gives GPS coordinates for the well as N 43.537339 by W 116.294745, which puts it in the NESE of Section 2, T02N, R01E, B.M. There are two pumps set in the well, both at 84' BGS. The first is a 1-hp pump with a 1 ¼" discharge and the other is a ½-hp pump with a 1" discharge. At the time of the exam, the gauge near the well head showed an operating pressure of 52 psi. Water is diverted from the well to what appears to be nine stocktanks distributed throughout the feed lot and to houses nearby for domestic use authorized by right 63-17945.

Based on the HP, psi, pump set depth (to estimate TDH), and an assumed efficiency of 70%, the 1-hp pump has a theoretical diversion capacity of 0.03 cfs and the ½-hp pump has a capacity of 0.02 cfs. Combined they produce a theoretical maximum of 0.05 cfs. 0.05 cfs is also the rate authorized by the permit and is the rate I have recommended for the license. However, as I mention above right no. 63-17945 also authorizes diversion from this well. The overall rate listed on that right is 0.20 cfs. The total required diversion rate from the well is 0.25 cfs. This new license will carry a combined use limit to ensure that the two rights, when combined, do not exceed a diversion rate of 0.20 cfs from the well.

The place of use for this permit is a feed lot operation located west of S Maple Grove Road and owned by M & M Properties LLC. The parcel number for the place of use is S1402417230. The field report, along with aerial imagery and digital PLS mapping, shows that the POU is located in the same QQ as the POD.

The field report does not indicate how many stock are watered at the lot. Right 63-17945 authorizes stockwater use for 500 cows. Information in the backfile for this permit shows that the new permit is to provide water for an additional 160 dry cows and suggests that the additional 160 cows were already being watered at the time that the application was filed. Therefore, the volume I have recommended (2.7 afa) is the volume given for 160 range cattle per Admin AP Memo No. 3.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT



Figure 1 The 10-inch, hand-dug well was constructed at some point in the 1930's. It is the only well providing water for stockwater use under this permit, and is also used for right 63-17945.



Figure 2 Plumbing leading into the pressure tank from the well.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

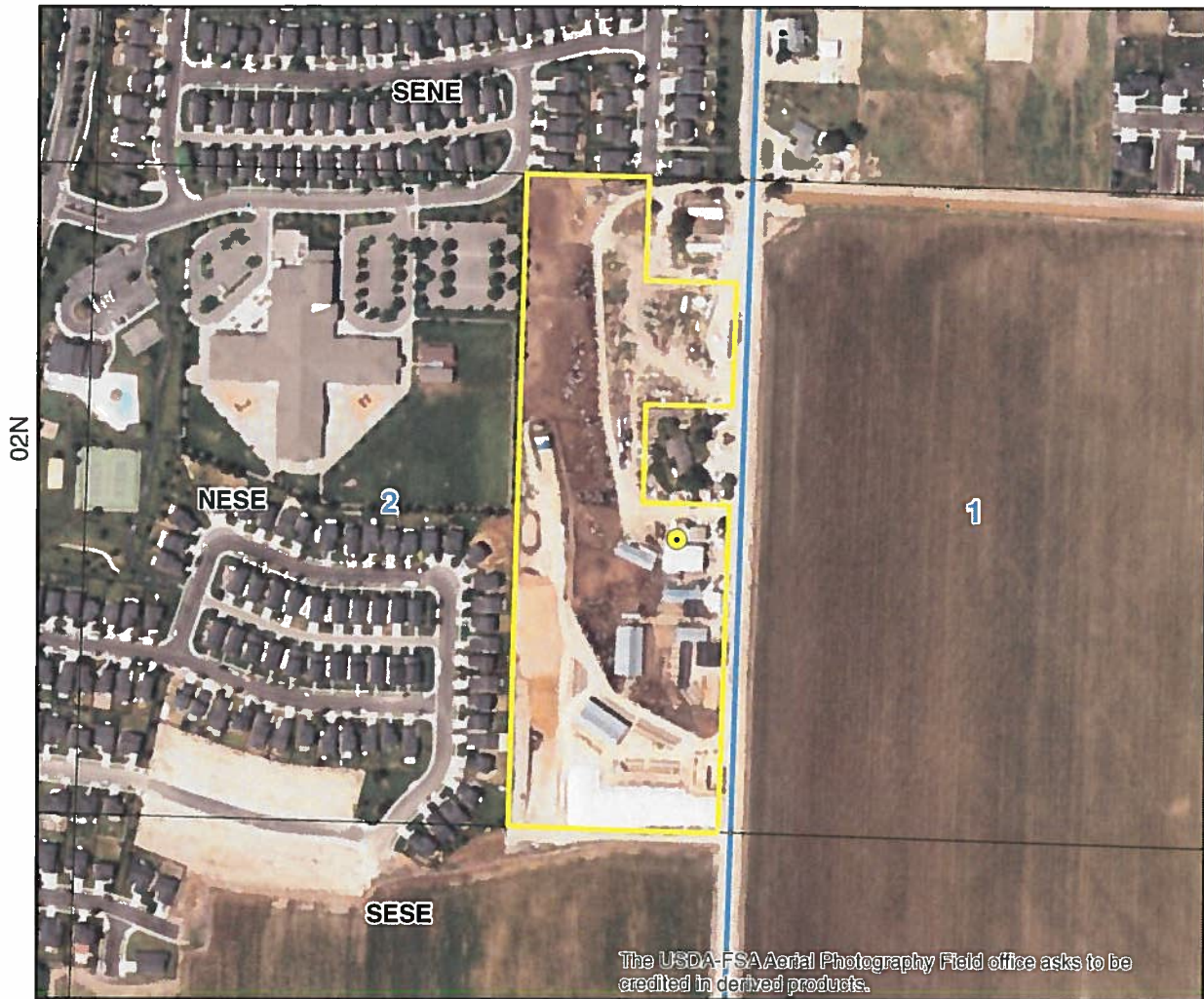


Figures 3 & 4 Cows water at the heifer lot for this permit.

State of Idaho
Department of Water Resources
Attachment to Water Right License
63-31661

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.

01E



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

0 0.045 0.09 0.18 Miles



BasinSequence	Owner	Source	Use
---------------	-------	--------	-----

[illegible]