

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-11852

Exam Date: 12/4/2014

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Larry & Marilyn Maybon
Owner of Record Correct? ☒ Yes ☐ No
Address of Record Correct? ☒ Yes ☐ No
If No: Address

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: CO99453

4. **SOURCE** TRIBUTARY

Ground Water

Method of Determination: Well drillers report was secured.Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Overlap? ☒ Yes ☐ No

Water Right No.	Source	Purpose of Use	Basis
57-10742	Ground water	Stockwater	Decreed

Comments: 57-10742 is a stockwater right in the name of Gale Maybon for 100 range cattle. Larry explained this is a direct POU overlap from a different well.

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: No POD overlap.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
GROUND WATER			SE	SW	35	04N	06W		OWYHEE

Method of Determination: Legal Description in permit validated by PLS data and mapping.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **PLACE OF USE:** Use: Stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	06W	36									S			S					

Method of Determination: Map of property submitted by land owner identifies POU clearly.Change in POU? ☐ Yes ☒ No Amendment Required? ☐ Yes ☒ No

3.

☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☒ 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
Unk.	Unk	Unk	Unk	Unk	Unk

*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

2. Measurements: In-office field exam. Theoretical flow included in report.**E. FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Measured Method:

$$Q = \frac{8.8 * (\text{Efficiency}) * hp}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to Water = 22 ft.

psi = 40-60

hp = 0.75-2

See attached theoretical sheet.

Measurement = 0.07 cfs**Permit allowed = 0.07 cfs****License recommend for 0.07 cfs.**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

$$100 \text{ head} \times 12 \text{ gal head / day} \times 365 \text{ days} = 438,000 \text{ gallons} = 1.4 \text{ af}$$

G. PURPOSE OF USE

Irrigation ☐ Yes ☒ No # Stock 100 Domestic # of Homes 0

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Permit 57-11852 authorized the diversion of 0.07 cfs from ground water for stockwater purposes. Because of the small permitted diversion rate, this qualifies for an in-office field exam. The exam was completed on Dec 4, 2014 by WRA Patrick Kelly.

Legal description of POU & POD on the permit were found to be accurate for the property in the name of Larry & Marilyn Maybon. A map outlining the POU and POD was submitted with the application for permit was useful in outlining the place of use.

Overlap review found water right 57-10742. This is a stockwater right in the name of Gale Maybon. POU in the same QQ for 100 dairy and range cattle. The similarity between the two rights were high so telephone communication with Larry Maybon was made on Dec 4 2014. Larry informed me that Gale was his father and the 57-10742 served his father's well at a property that he no longer owns. Larry wishes to gain another right for his well to serve the same 100 cattle.

A range of small hp pumps were assumed given this is for stockwater use and the requested diversion rate is relatively small. Pumping level of 22 feet was used based on 12 ft static level and drawdown in the well. A range of discharge pressures were used under what we would expect to see from open discharge systems. Theoretical average flow rate is 0.07 cfs.

Permit 57-11852 applied for a diversion rate of 0.07 cfs. WR 57-10742 dairy cattle so a larger diversion rate of 0.07 cfs was licensed. Administrator Memo #3 recommends a diversion rate of 0.03 cfs for 51-100 head of range cattle. Because these two rights are for the same group of cattle, and no evidence suggests licensing a lesser rate, a diversion rate of 0.07 cfs will be recommended.

Have conditions of permit approval been met? ☒ Yes ☐ No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Stockwater	01/01-12/31	0.07 cfs	1.4 af
	<u>Totals</u>	0.07 cfs	1.4 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

Other: < >

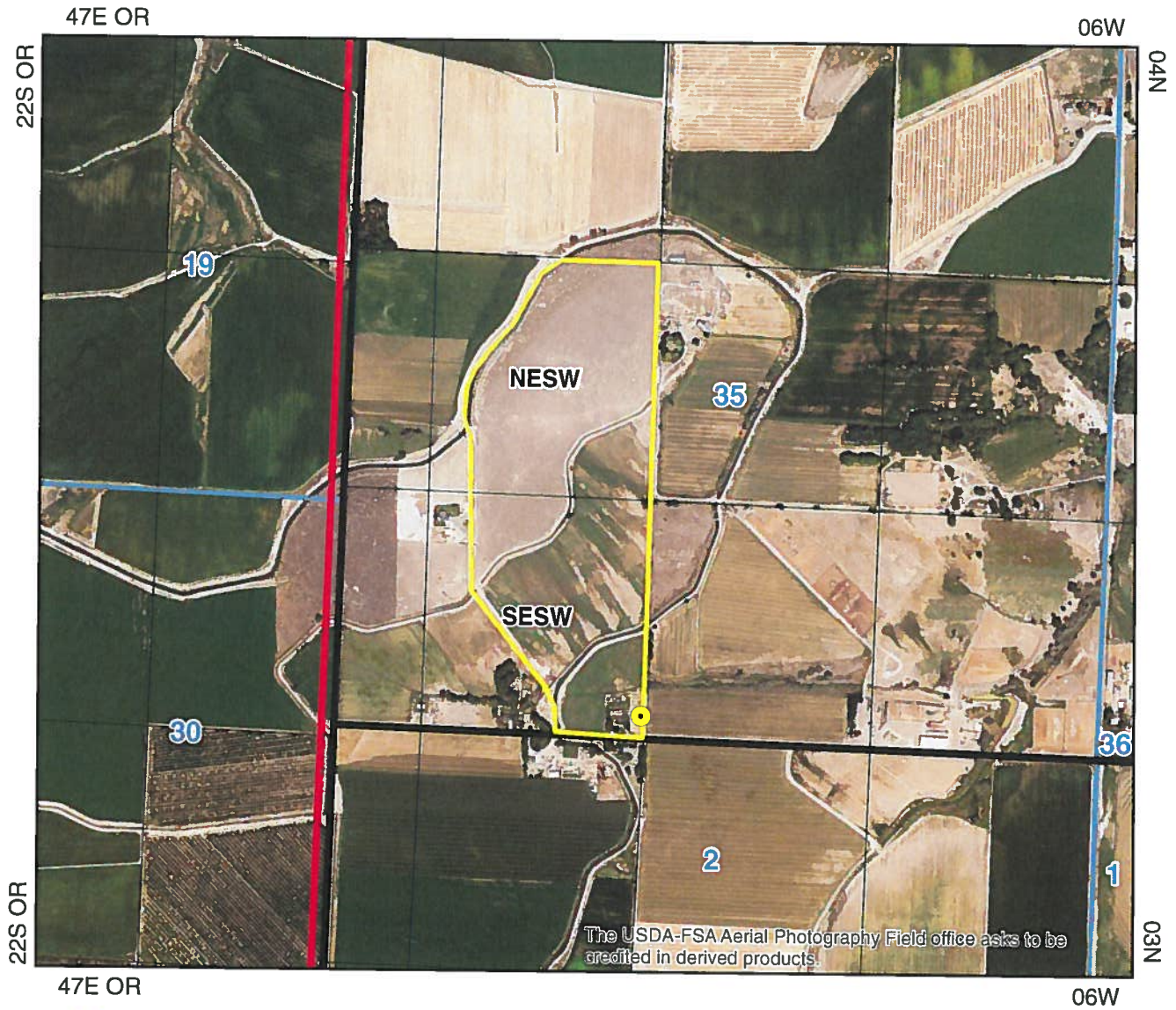
J. AUTHENTICATION

Field Examiner's Name Patricia Miley Date 12/4/2014

Reviewer Camila S. Skaggs Date 12-15-2014

State of Idaho
Department of Water Resources
Field Exam Map
57-11852

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 0.1 0.2 0.4 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 57-11852
 Reviewer: Patrick Kelly
 Date of Review: 12/4/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	0.75	1	2
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	22	22	22
DISCHARGE PRESSURE	35	40	45
RATE OF FLOW (cfs)	0.04	0.05	0.10 0.07

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

A range of small hp pumps were assumed given this is for stockwater use and the requested diversion rate is relatively small. Pumping level of 22 feet was used based on 12 ft static level and drawdown in the well. . A range of discharge pressures were used under what we would expect to see from open discharge systems. Theoretical average flow rate is 0.07 cfs.

Location Corrected by IDWR To:

T04N R06W Sec. 35 SESW

By: btuttle 2012-09-06

WELL DRILLER'S REPORT

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

[illegible]