

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 43-13518

Exam Date: 6/7/2011

1. Current Owner: ALBION RANCH 2006 LLC
7595 EAST MCDONALD DR STE 130
SCOTTSDALE AZ 85250
(480) 947-3100
2. Accompanied by: Clair Teeter
Phone No: 208-638-5522
Address: 1355 E 1750 S Malta ID 83342
Relationship to Permit Holder: Ranch Manager

3. **SOURCE**

UNNAMED STREAM

TRIBUTARY

BLACKSMITH CREEK

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:**

UNNAMED STREAM

SW1/4NE1/4

Sec. 2, Twp 13S, Rge 25E, B.M.

CASSIA County

Method of Determination: Waypoints were collected with a Garmin GPS map 76S receiver and downloaded into an ArcMap shapefile that corresponds with 2009 aerial photography and verified the points of diversion to be in Twp 13S Rge 25E S 2 SWNE¼. See attached map.

2.

PLACE OF USE: STOCKWATER STORAGE

Twp Rge Sec			NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13S	25E	2			X														

Method of Determination: Tracks were collected with a Garmin GPS map 76S receiver and downloaded into an ArcMap shapefile that corresponds with 2009 aerial photography and verified the points of diversion to be in Twp 13S Rge 25E S 2 SWNE¼. See attached map.

3. ☒ 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

D. FLOW MEASUREMENTS – None

E. FLOW CALCULATIONS - None

F. VOLUME CALCULATIONS

1. Volume Calculations for Other Uses: Stockwater storage

Surface area of reservoirs = 0.08 acres

Determined by loading tracks into ArcMap shapefile and utilizing calculate acres tool

Reservoir Capacity = 0.06 AF

Determined using v-shaped reservoir equation from IDWR Field Examiners Handbook
(Capacity = Surface Area x Maximum Depth X 0.4)
Maximum Depth determined to be 2 ft.
 $0.08 \times 2.0 \times 0.4 = 0.064$ AF

Additional volume loss due to evaporation = 0.23 AF

Data taken from University of Idaho ETIdaho website for evapotranspiration for open water, small stock ponds, Malta
Station Annual Mean = 878 mm
 $878 \text{ mm} \times (1 \text{ in}/25.4 \text{ mm}) \times (1 \text{ ft}/12 \text{ in}) = 2.9 \text{ AFA}$
 $2.9 \text{ AFA} \times 0.08 \text{ Acres} = 0.23 \text{ AFA}$

Potential Stock Use:

$(180 \text{ cattle} \times 12 \text{ gpd}) \times 365 \text{ days} / 325850 = 2.4 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

Permit 43-13518 is for stockwater storage from an unnamed stream.

Application for permit 43-13518 submitted by Albion Ranch 2006 L.L.C., and was received August 8, 2007 and proof of Beneficial Use was submitted September 26, 2008.

The reservoir is located approximately 6.5 miles west and 0.9 miles north of Malta. The reservoir is an on- stream impoundment on a small unnamed stream tributary to Blacksmith Creek.

The developed system is essentially a small reservoir behind an 8' embankment in a small stream channel with an approximate surface area of 0.08 acres. Reservoir capacity estimated at 0.06 AF. Precipitation deficit data from the University of Idaho ET website indicates a mean of 878 mm (2.9 AF) per acre for small stockwater ponds in the Malta area. Based on the calculated surface area of 0.08 acres, the data indicates that approximately 0.23 AF could potentially evaporate from the reservoir each year.

According to Michael Merriman, owner of the Albion Ranch, he has 180 range cattle that potentially use this source of stockwater.

Permit was issued with conditions requiring a measuring device and a lockable device. Applicant formally requested a waiver of these conditions in writing and the Watermaster had no objection to his request. As these waters aren't currently regulated by the watermaster of Water District 43C but are within the jurisdiction of the water district, conditions 01H and 18C have been

modified to read "Upon specific notification by the Department...", granting the applicants request while maintaining the Department's ability to require such devices should they be deemed necessary at a future date.

The application for permit requested 0.2 AF. As the reservoirs storage capacity is estimated at 0.06 AF, 0.14 AF of potential evaporative losses will be included in the recommended volume for a total of 0.2 AF.

Recommend the permitted amount 0.2 AF for stockwater storage.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER STORAGE	01/01 to 12/31	0.20 AF
	<u>Totals:</u>	0.20 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

I. AUTHENTICATION

Field Examiner's Name Bill Mith Date 5-7-2012

Reviewer [Signature] Date 5/9/2012

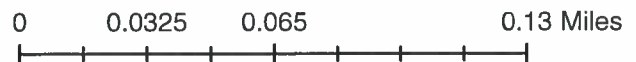


Figure 1: Small Stockwater Reservoir at Albion Ranch, LLC.

State of Idaho
Department of Water Resources
Water Right License

43-13518

Water Service Area Boundary for Albion Ranch 2006 Llc



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

