

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8918

Exam Date: 4/2/2012

1. Current Owner: US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
400 WEST F ST
SHOSHONE ID 83352
(208)732-7200

2. **SOURCE** **TRIBUTARY**
UNNAMED STREAM SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-20259
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED STREAM NW1/4SW1/4SE1/4 Sec. 10, Twp 04S, Rge 17E, B.M.
LINCOLN 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 point of diversion to be in Twp 04S Rge 17E S 10 NWSWSE¼. See attached map.

2.

PLACE OF USE: STOCKWATER STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04S	17E	10									X				X		X	X	

PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04S	17E	10									X				X		X	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 point of diversion to be in Twp 04S Rge 17E S 10 NESW¼; SESW¼; NWSE¼ and the SWSE¼. 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 and Wildlife Storage:

Surface area of playa = **5.9 acres**

Determined using 2009 aerial photography and 2010 satellite imagery in Arcmap.

Additional storage added to playa by finished grade: **1.3 AF**

Determined using flat bottom reservoir equation from IDWR Field Examiners Handbook and information provided in permit application.
 (Capacity = Surface area x Maximum Depth)
 5.9 acres x 0.25 feet = 1.3 AF

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-8918 is for stockwater storage for up to 3100 range cattle and 1000 sheep. Source is unnamed stream and the development is referred to as Fireball Reservoir.

Fireball Reservoir is located approximately 10.3 miles north and 1.0 miles west of the intersection of Hwy 93 and Hwy 26 in Shoshone. Fireball Reservoir is a naturally formed playa or sink, apparently created by volcanic activity, which acts to hold snowmelt and rainwater, forming a temporary lake. A roadbed was constructed along the south side of the playa, and the entire southern edge was graded which resulted in a slight increase of the water holding capacity of the playa. On the east side of the playa is a low spot which I have identified as the point of diversion. At this point, the overall height of the impoundment is increased by approximately 3 inches above the natural level of the playa. The total surface area of the playa is approximately 5.9 acres with an average depth of 2.5 feet for a total volume of 14.75 acre feet. The additional storage created by the finished grade above the natural level of the playa is approximately 1.3 acre feet.

Overlap analysis indicates there is another water right (37-20259; stockwater storage & stockwater from storage; 1.0 AF) appurtenant to the SWSE¼. There are three small ponds to the south of the sink with a combined surface area of 0.8 acres and an average depth of 1.25 feet that when combined would account for 1.0 acre feet of storage. This right was claimed in the SRBA and research of the adjudication files was inconclusive as to which bodies of water this right is appurtenant too. I'm assuming right 37-20259 is appurtenant to the ponds to the south of the sink because line 10 of the application for permit 37-8918 states "SRBA claim 37-17400 was dropped in order to pursue an administrative water right claim on this reservoir." As two separate claims were filed, it logically follows that they are for separate systems.

Evidence of wildlife and stock use were present at the playa on the day of the exam.

Recommend permitting an Annual Volume of 1.3 AF.

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	1.30 AF
WILDLIFE STORAGE	01/01 to 12/31	1.30 AF
<u>Totals:</u>		1.30 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 Molk Date 4-19-2012

Reviewer [Signature] Date 4/24/2012



Figure 1: Playa from hilltop to the south.

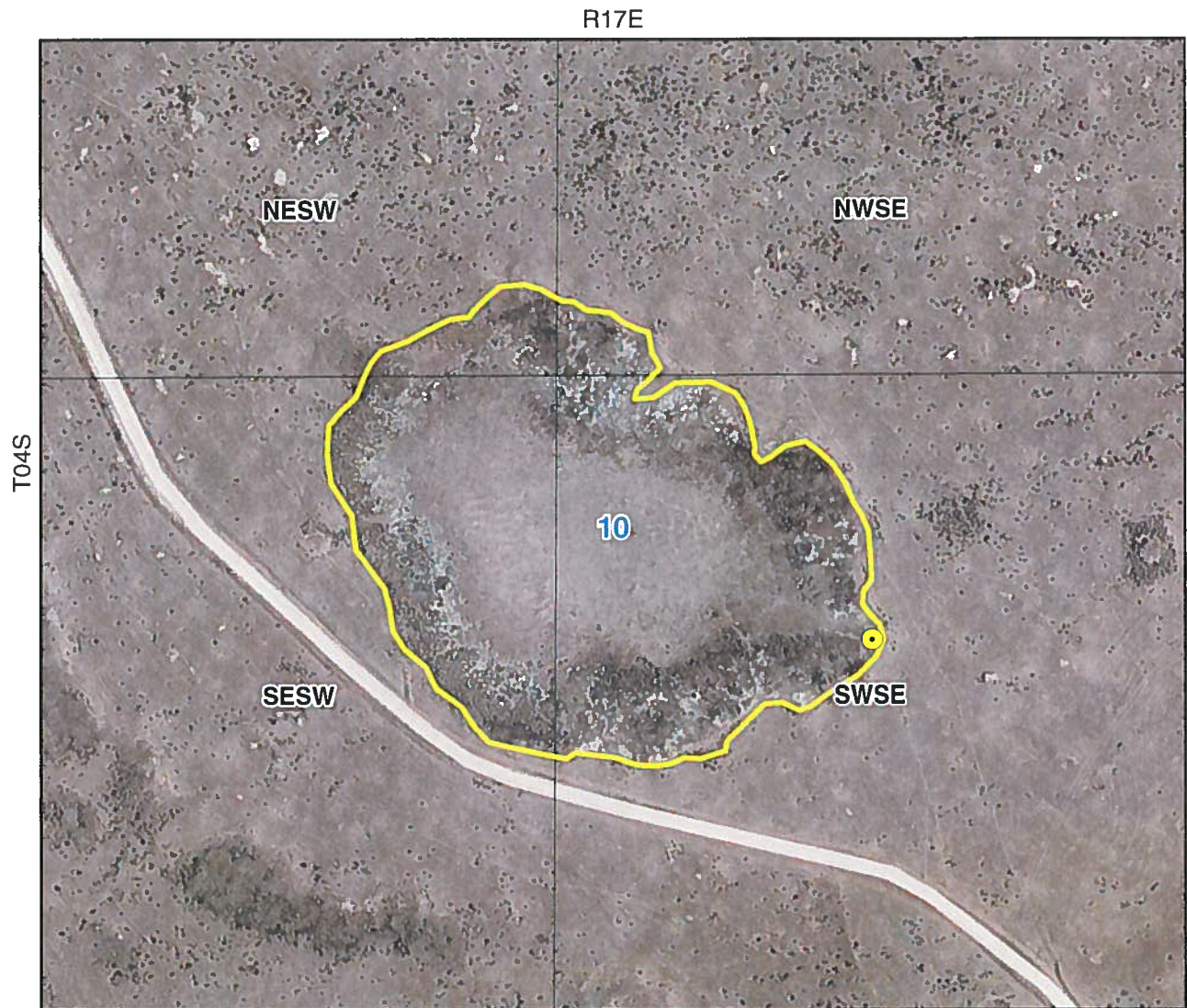


Figure 2: Playa from high point on finished grade looking northwest.

State of Idaho
Department of Water Resources
Water Right License

37-8918

Water Service Area Boundary for Us Dept Of Interior



0 0.025 0.05 0.1 Miles

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

