

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12565

Exam Date: 9/19/2012

1. Current Owner: MC GREW RANCH LLC
15600 NE HOT CREEK RD
GLENN'S FERRY ID 83623
(208) 599-3864
2. Accompanied by: John McGrew
Phone No: same
Address:
Relationship to Permit Holder: owner

- | | |
|-------------------------|-------------------------|
| 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
| BISWELL CREEK | BIG SPRINGS 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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

BISWELL CREEK	SE1/4NW1/4	Sec. 34, Twp 01N, Rge 10E, B.M.
ELMORE County		
BISWELL CREEK	NE1/4SW1/4	Sec. 34, Twp 01N, Rge 10E, B.M.
ELMORE County		

Method of Determination: Field exam, GPS, and ArcMap

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	
01N	10E	34																	
											X	X							

Method of Determination: Field exam, GPS, and ArcMap

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. **Well or Diversion**

<u>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 Size</u>
N/A					

D. FLOW MEASUREMENTS

1. **Measurement**

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
No measurement made, storage right.						

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

Permit 2.3 af
Bu fees PD 20 af max

**Found 1.0 af --
Recommendation**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A
2. Volume Calculations for Other Uses:

Two ponds were identified as the POU for this permit. The surface area was calculated using arcMap and the 2011 aerial photo. The ponds were dry during the field exam and the depth was estimated by standing in the bottom of the pond and comparing my height to the spillway level. Both ponds were basically flat bottomed with curved sides. As the flat bottom covered a majority of the surface area I used a correction factor of 60%. Rounding to the nearest tenth acre foot I found the total volume to be 1.00 af.

	Pond surface area	Depth	Correction factor	Total Volume
North pond	0.2	7	0.6	0.84
South pond	0.05	6	0.6	0.18
				<u>1.02</u>
Recommendation rounded to:				<u>1.00</u>

G. NARRATIVE/REMARKS/COMMENTS

The system for this right is two on-stream ponds capturing the flow from Biswell Creek. The ponds are approximately ¼ mile apart. The upstream pond has a surface area of approximately 0.2 ac and a depth of approximately 7 ft. The pond bottom is relatively flat therefore I used a 60% correction factor when figuring the volume. The downstream pond is much smaller and for this pond I found a surface area of approximately 0.05 ac and a depth of approximately 6 ft. This pond also had a relatively flat bottom resulting in using the same 60% correction factor. The pond volumes came to 0.84 af for the upper pond and 0.18 af for the lower pond for a combined total of 1.00 af. The permit identified the POD and POU as being in 1N, 10E, Sec 34 NESW. However, I found through arcmap that the upper pond was just into Sec 34 SENW for both the POD and POU. This will require an amendment for the permit before licensing.

63-31608 is a Stockwater storage right from an unnamed stream that also falls within the same 2 40-acre tracts as this permit. That right is for a different stream that eventually flows into Biswell Creek in Sec 34 SWSE a little over 1/4 mile downstream from the last reservoir for this permit. 63-31030 is an in-stream Stockwater right that covers Big Springs Creek, an unnamed stream, and Biswell Creek. The reservoirs are within the decreed POU for 63-31030 but as this right is for storage the permit is not considered an overlapping right.

This permit is conditioned for measurement devices however this condition should be modified to reflect M01. The creek is intermittent with occasional high flows that would make it difficult to maintain working order measurement devices and they would also be of no value when there was no flow. Mitigation for the storage volume is required for this right. It was permitted for 2.3 af but I only found 1 af of storage. I recommend that future mitigation reflect the 1 af.

Have conditions of permit approval been met? ____ Yes ____ X No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER STORAGE	01/01 to 12/31		1.00 AF
<u>Totals:</u>			1.00 AF

2. Recommended Amendments

X Change P.D. as reflected above ____ Add P.D. as reflected above ____ None

X Change P.U. as reflected above ____ Add P.U. as reflected above ____ Other

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date 11-5-12
Reviewer _____ Date _____

63-12566 Revised BU Terms & Conditions

SL 10/30/12

Bold = Recommendations

Beneficial use

Stockwater from Storage, all year, 1.5 af

Add this use as clarification of actual development, not an expansion. Primary onstream pond can also release water via pipe to secondary storage pond – this would be a use from storage instead of natural flow use.

Is not additive so total use remains 1.5 af.

Mitigation

The right holder must provide for 2.5 af of storage water or some other source of water to be released into the Boise River for mitigation purposes and shall annually secure an executed storage lease agreement or other documentation as proof of such release into the Boise River. Upon notification, the right holder shall provide the documentation to the department.

Emails with Watermaster indicate rental pool water is available for mitigation. He did not object to examiner's explanation about measuring devices etc.. Ok to modify mitigation, lock & measure conditions based on that.

18C, Measure

Upon notification, the right holder shall provide a means acceptable to the department to measure the amount of water released from the reservoir.

Examiner found not feasible to measure inflow. Could measure outflow via pipe to secondary pond that can hold some storage.

Replaces condition 18A as of 6/7/2001.

R02, Lock

Upon notification, a lockable device subject to the approval of the department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.

Usage Description

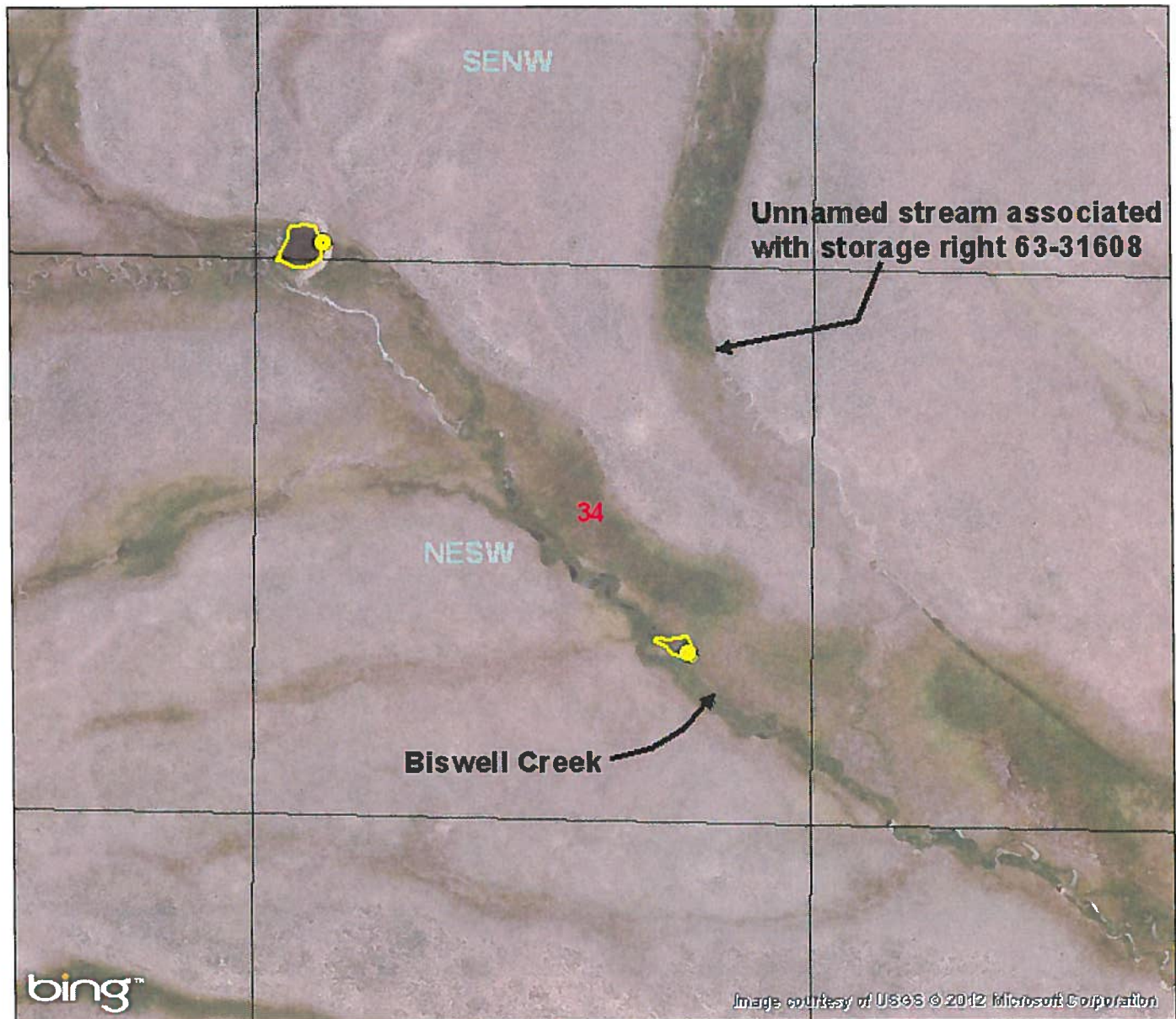
Replaces permit condition 01H.

CAN use 3 modified conditions for
SP. 12565 it ok with watermaster

SL

Idaho Department of Water Resources

63-12565 LICENSING PLACE OF USE



★ LOCATION IN BASIN

PLACE OF USE
TWP 01N, RNG 10E Sec 24
Data Entry on November 2, 2012



- ① Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN

Basin 63



63-12565

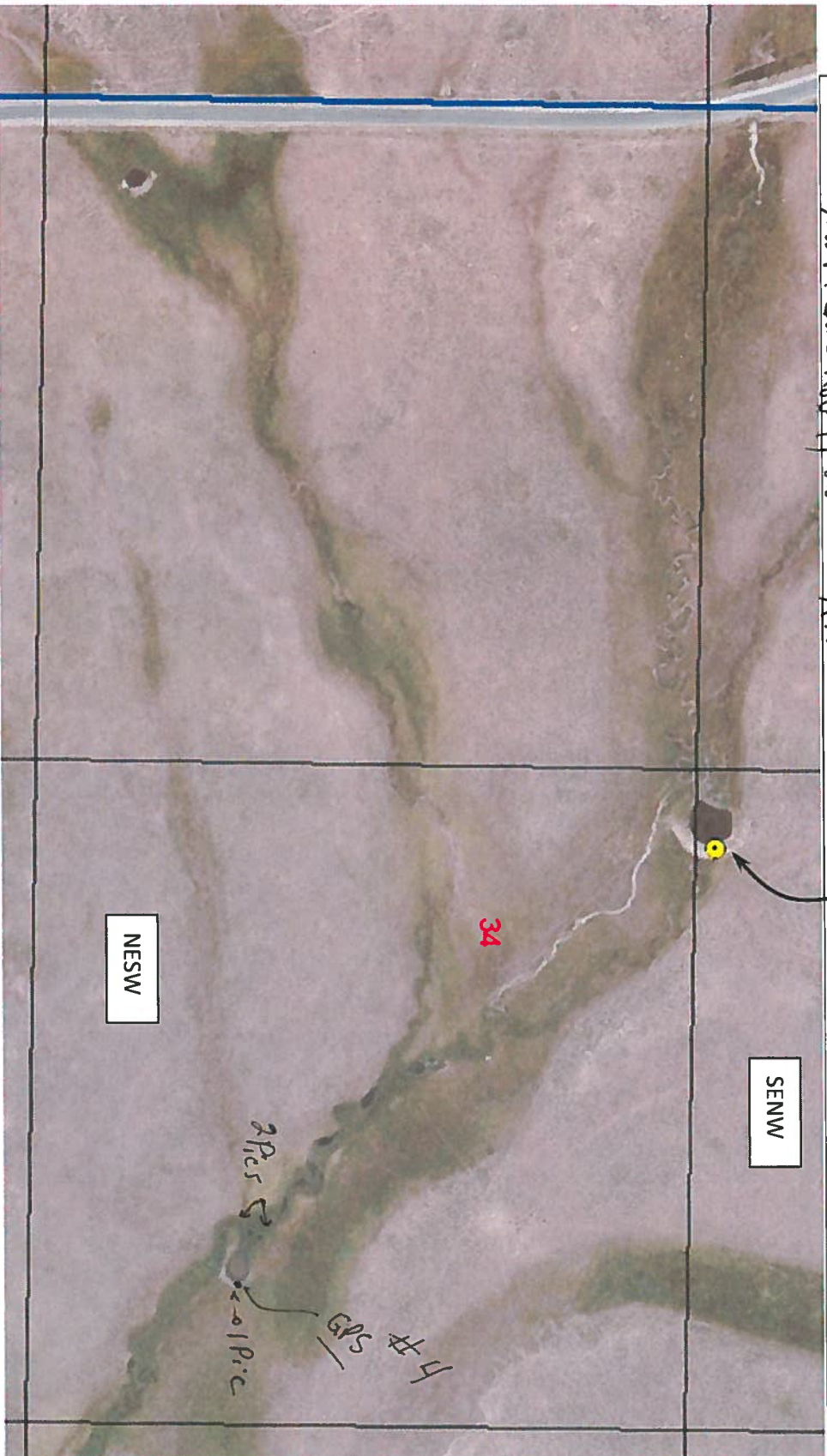
1N, 10E, SEC 34

2011 AERIAL PHOTO

exam date Nov 1, 2012

KKE

Pond found during 9-19-2012 exam



total depth 6' of channel

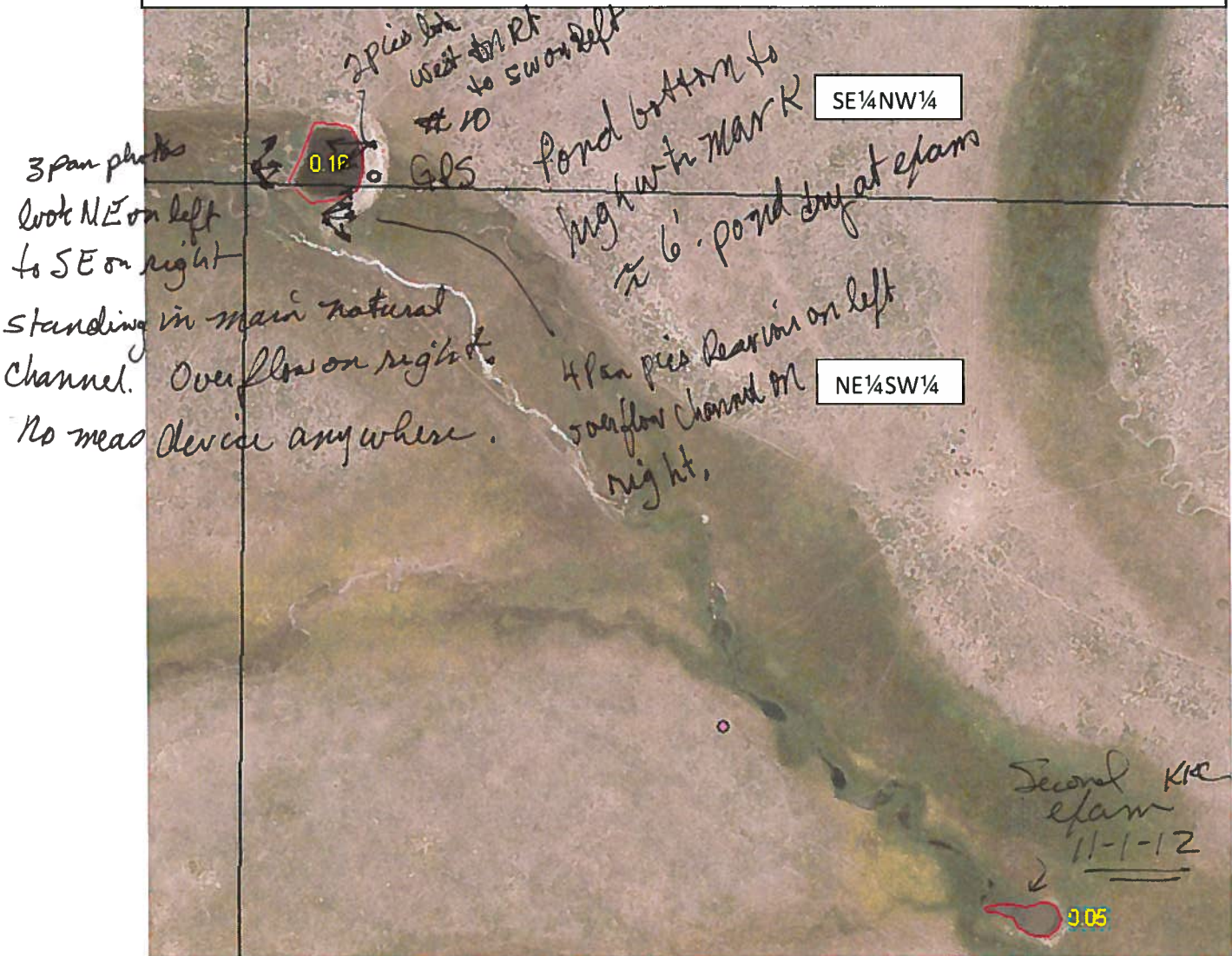
63-12565

1N, 10E, Sec 34 SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$

Application indicates two ponds

Field exam notes
9-19-12

KKC



63-12565 Field exam photos

Exam date September 19, 2012 and November 1, 2012

By: Kelly K Christensen

Photo set 1

You are looking northeast on the left to southeast on the right. This set shows the incoming channel that feeds the reservoir. As the reservoir fills the overflow backs up the main channel and then flows out the right around the reservoir.

Reservoir

Main Channel

Photo set 2 site

Overflow channel

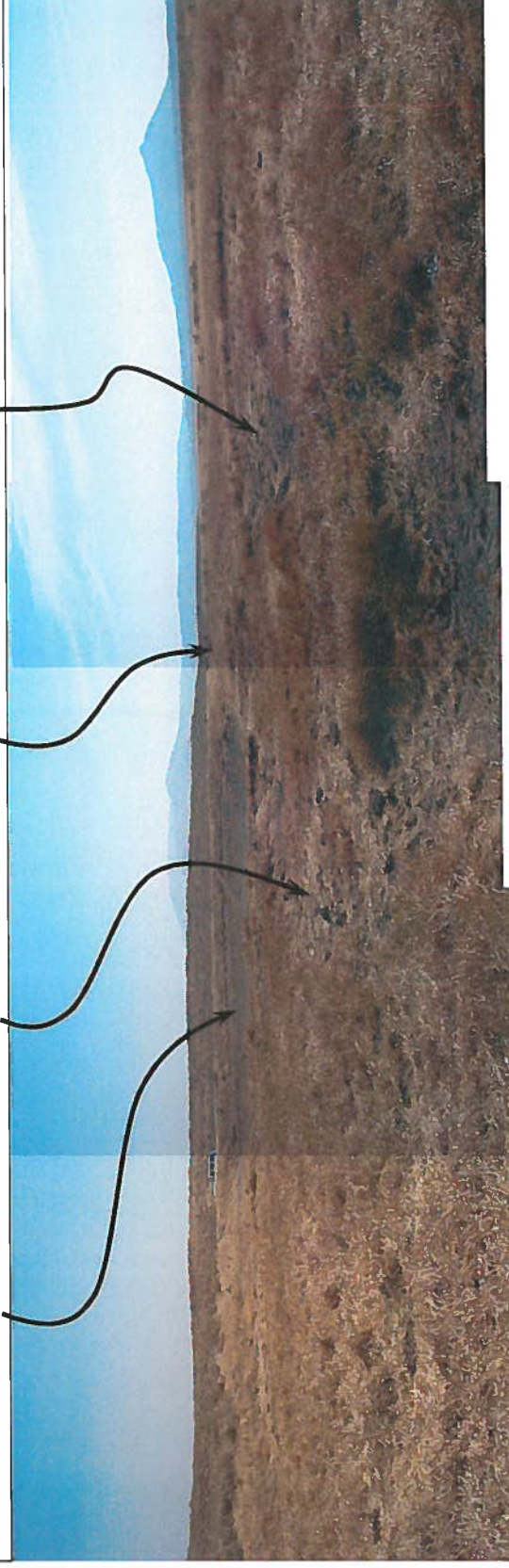


Photo set 2

You are looking east northeast on the left to southeast on the right. This she show the overflow channel below the reservoir. Water backs up the main channel and then flows to the right around the reservoir.

Historic main channel

Overflow channel

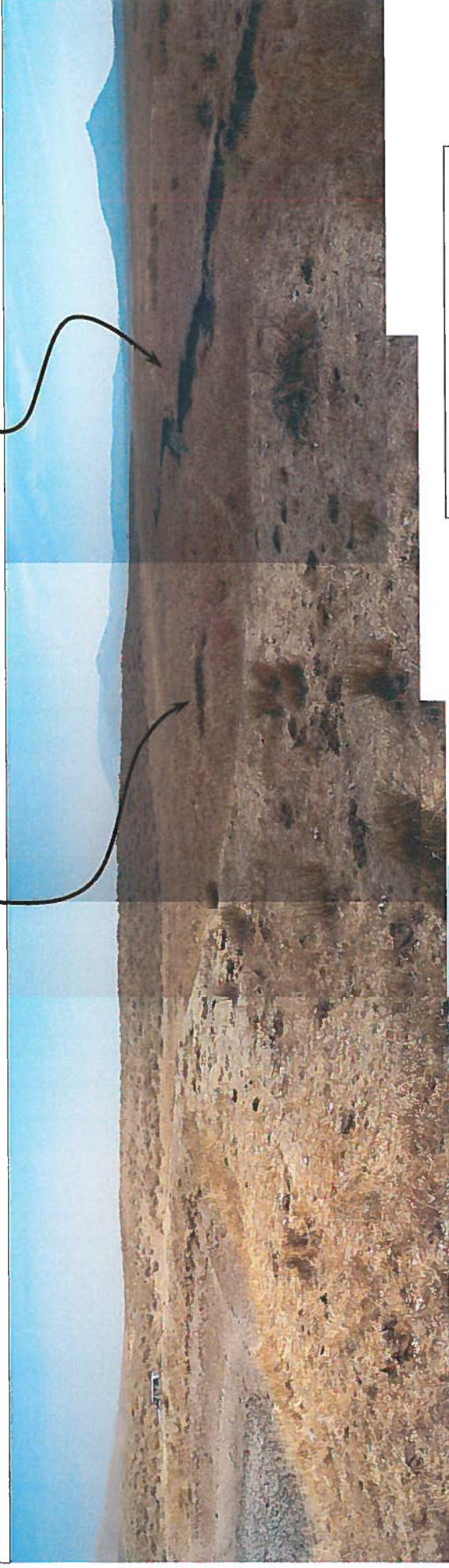


Photo set 3

This set is looking west to west southwest and shows a close-up of the reservoir. The photos were taken roughly from the center of the dike.

Photo set 1 -- 2nd reservoir

Exam date November 1, 2012

You are looking east in this photo set from the upstream side of the reservoir. Once filled, any additional water will go over the spillway or even overflow into the side channel to the right.

Biswell Creek

Spillway

Side channel

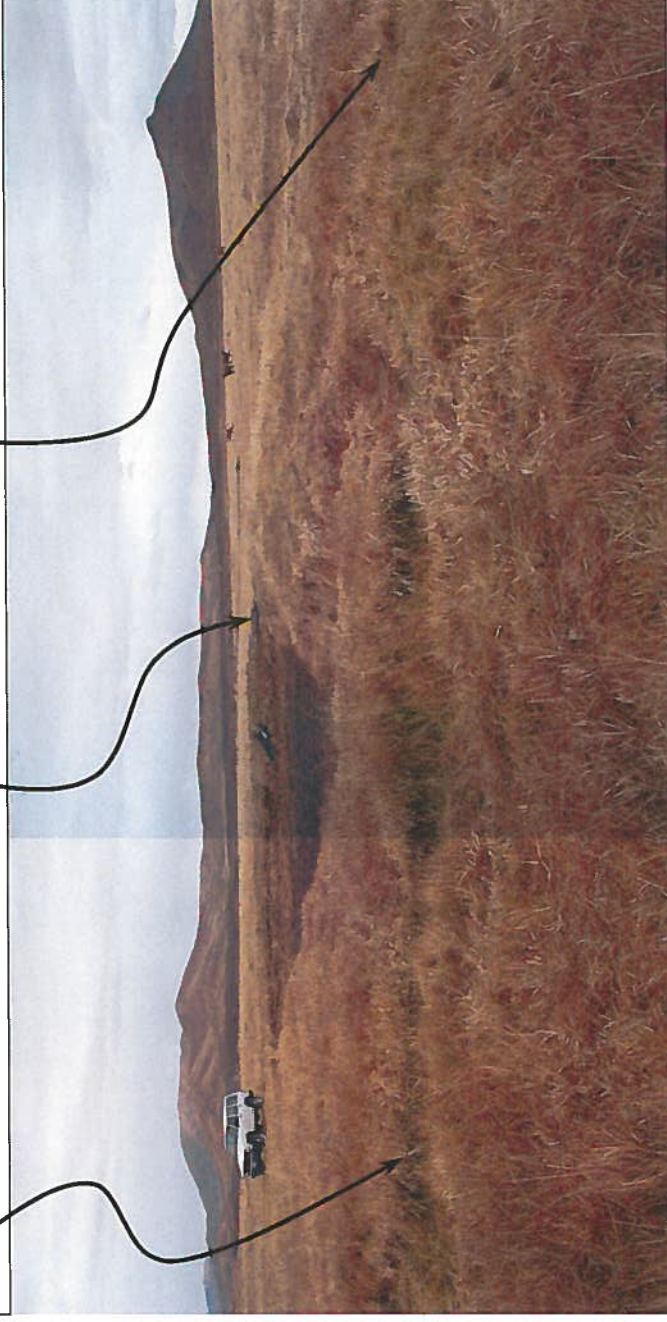


Photo 2 -- 2nd reservoir Exam date November 1, 2012
You are looking west in this photo (upstream)

Spillway GPS reading Biswell Creek

