

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12566

Exam Date: 9/19/2012

1. Current Owner: MC GREW RANCH LLC
15600 NE HOT CREEK RD
GLENNS FERRY ID 83623
(208)580-2996

2. Accompanied by: John McGrew
Phone No:
Address:
Relationship to Permit Holder: : owner

3. SOURCE TRIBUTARY
UNNAMED STREAM CASEY 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:**

UNNAMED STREAM SW1/4SE1/4 Sec. 21, Twp 01N, Rge 10E, B.M.
ELMORE County

Method of Determination: GPS during field exam

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	21			X												X	X	

Method of Determination: GPS during field exam And Arc Map

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>
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Diversion is a dam on an unnamed stream with a pipeline coming off of the reservoir drain line and into a 1¼ inch black plastic line running approximately 5000 ft north to a smaller pond capable of holding approximately 0.12 af. Flow is normally restricted by a grease zerk but during times of higher demand the zerk can be removed allowing a flow from the ¼ inch line.

D. FLOW MEASUREMENTS

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

2. Measurements:

No flow measurements made. This is a storage right.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: Pond in Sec 21 S $\frac{1}{2}$ SE $\frac{1}{4}$; Surface area = 0.28 ac based upon arc map
Depth 12 ft; estimated in field
Pond shape = V therefore use 0.4 factor
 $0.28 \text{ ac} * (12 \text{ ft} * 0.4) = 1.34 \text{ af}$

Pond in Sec 21 SWNE Surface area = 0.05 ac based upon arc map
Depth 6 ft; estimated in field
Pond shape = V therefore use 0.4 factor
 $0.05 \text{ ac} * (6 \text{ ft} * 0.4) = 0.12 \text{ af}$

Recommended volume -- Total = 1.46 $\approx 1.5 \text{ af}$

G. NARRATIVE/REMARKS/COMMENTS

The system for this right is an on-stream pond capturing spring flow from springs at the reservoir site with some spring flow now underwater. The spring flow is considered to be contributing to the unnamed stream. The reservoir has a surface area of 0.28 acres and is approximately 12 ft deep. The drainage is relatively steep in this area and for calculation purposes I used a pond depth average of 0.4 based upon a V shape. Therefore the storage capacity is $0.28 \text{ ac} * (12 \text{ ft} * 0.4) = 1.34 \text{ af}$. The reservoir drain line is tapped by a 1 $\frac{1}{4}$ inch black plastic line that runs on contour approximately 5100 ft to a small pond storing approximately 0.12 af. As this pond comes off of the developing works for this right and because of its small size it is considered to be a part of the permitted system. The 1 $\frac{1}{4}$ pipeline is reduced to a $\frac{1}{4}$ inch steel line and then the flow into the pond is further restricted by a grease Zerk. Normal flow is through the grease zerk opening which is approximately 1/16th of an inch. Mr McGrew stated that at times when a large number of cattle show up at this pond, he has removed the zerk allowing the flow of the $\frac{1}{4}$ inch steel line supply water. The total for this system is $1.34 \text{ af} + 0.12 \text{ af} = 1.46$ rounded to 1.5 af (the recommended volume). This is approximately 60% of the permitted volume of 2.5 af. See the narratives associated with the field exam photos for additional information.

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

See cond of Approval analysis dated 10-30-12

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		1.50 AF
<u>Totals:</u>			1.50 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 X Add P.U. as reflected above _____ Other

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date 10-30-2012

Reviewer _____ Date _____

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.

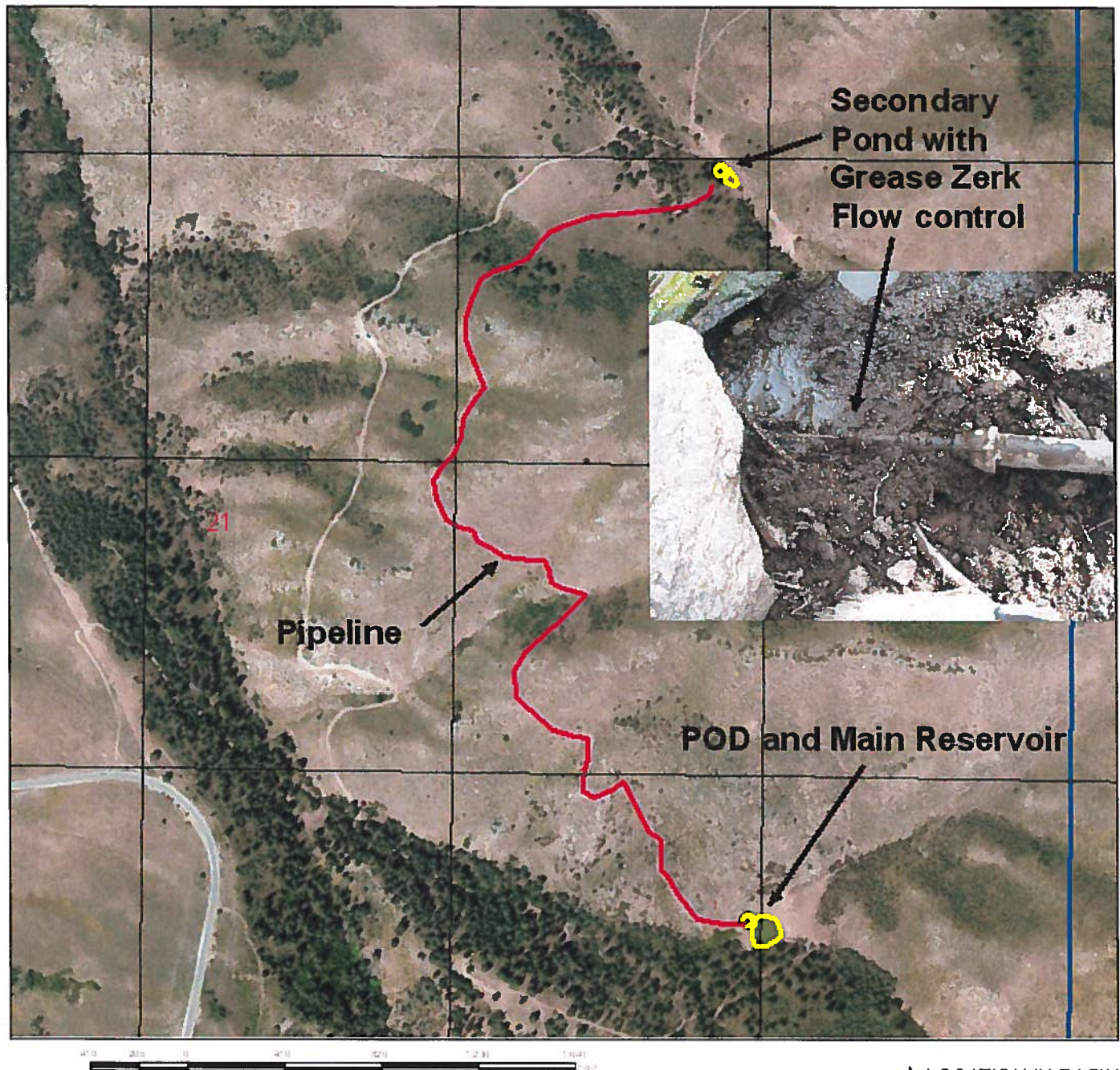
R02, Lock

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.

63-12566 LICENSING PLACE OF USE



★ LOCATION IN BASIN

PLACE OF USE
TWP 01N, RNG 10E Sec 21
Data Entry on October 4, 2012



Basin 63



- 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

1. 26A Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.

System complete.

2. 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 provide to the department an executed storage lease agreement or other documentation as proof of such release into the Boise River. Stockwater storage is for 750 range cattle.

Mitigation was provided for 2000. No documentation of mitigation beyond that time.
Mitigation needs to be provided prior to licensing.

3. 18B The storage of water under this right is contingent upon the certification of the dam and authorization of storage per the dam safety provisions of the Idaho Code.

Dam storage is less than 10 af and in a low impact area. Dam safety considers this reservoir non-jurisdictional.

4. 01H Prior to diversion of water under this right, the right holder shall install a lockable device, subject to the approval of the Department, in a manner that will provide the watermaster suitable control of the diversion.

Recommend changing to 01M as this is a small system.

5. R04 Use of water under this water right will be regulated by the watermaster of State Water District No. &DISTRICT.

Water district 63 -- Rex Barrie will need to be contacted by permit holder for mitigation purposes.

6. 18A The right holder shall install/maintain permanent measuring devices in such a manner that the amount of water entering the reservoir and the amount of water released from the reservoir can be measured.

The springs feeding the reservoir are fully or partially covered by the reservoir therefore measurement of the water entering the reservoir would be impossible to measure. Under normal circumstances some type of measurement device probably could be installed on the discharge side of the reservoir, however, I suggest that the measurement device condition indicate that the measurement is required upon notification by the department.

Christensen, Kelly

From: Rex Barrie [waterdistrict63@qwestoffice.net]
Sent: Friday, October 26, 2012 7:31 AM
To: Christensen, Kelly
Subject: RE: mitigation of stockwater for 63-12565 and 63-12566 McGrew

Kelly,

There is water available in the Rental Pool for in basin use.

We are expecting an order from the Director next year to begin administration of rights above the storage reservoirs.

John Westra and Steve Lester have been work with me on the issue since last year.

Either one can brief you on where we are.

Thanks,

Rex R. Barrie
Boise River Watermaster

From: Christensen, Kelly [<mailto:Kelly.Christensen@idwr.idaho.gov>]
Sent: Thursday, October 25, 2012 1:50 PM
To: waterdistrict63@qwestoffice.net
Subject: mitigation of stockwater for 63-12565 and 63-12566 McGrew

The two rights are both Stockwater storage permits subject to licensing. They were permitted for a total of 5 af but when I went into the field it appears that they will probably end up less than 3 af total. They are located east of Anderson Ranch Reservoir in the Lime Creek drainage both being on-stream storage within 1N 10E sections 21 and 34. 63-12565 is on Biswell Creek which is an intermittent stream. 63-12566 is located on an unnamed stream tributary to Casey Creek and generally flows year round. Neither permit has a measurement device before or after the reservoir although a method of measurement probably could be constructed for 63-12566 at the discharge pipe coming out of the reservoir that would provide a measurement. It would be difficult to construct a meaningful measurement device that could withstand the intermittent high flows on the channel for the other right and still survive. I do have some pictures if you are interested.

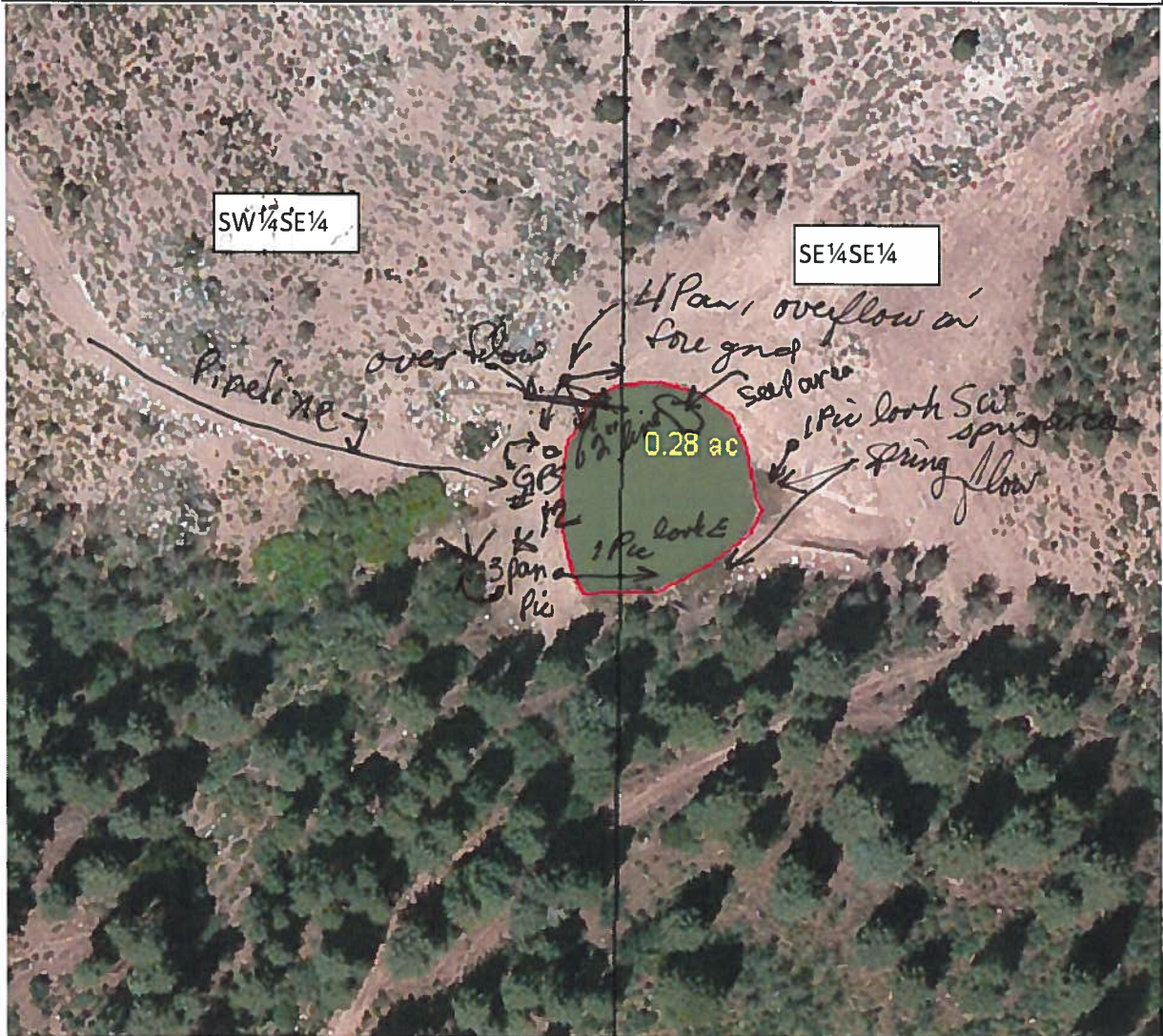
When they were approved in 2000 John McGrew leased 5 af of water from the storage bank. To the best of my knowledge he has never leased water since that year. Is there water available for lease to cover the two permits? I am assuming that there is no waver for small storage rights.

Kelly K Christensen
Sr Water Resource agent
Western Region

Permit POD/POU = SESE

63-12566

1N, 10E, Sec 21 S½SE¼

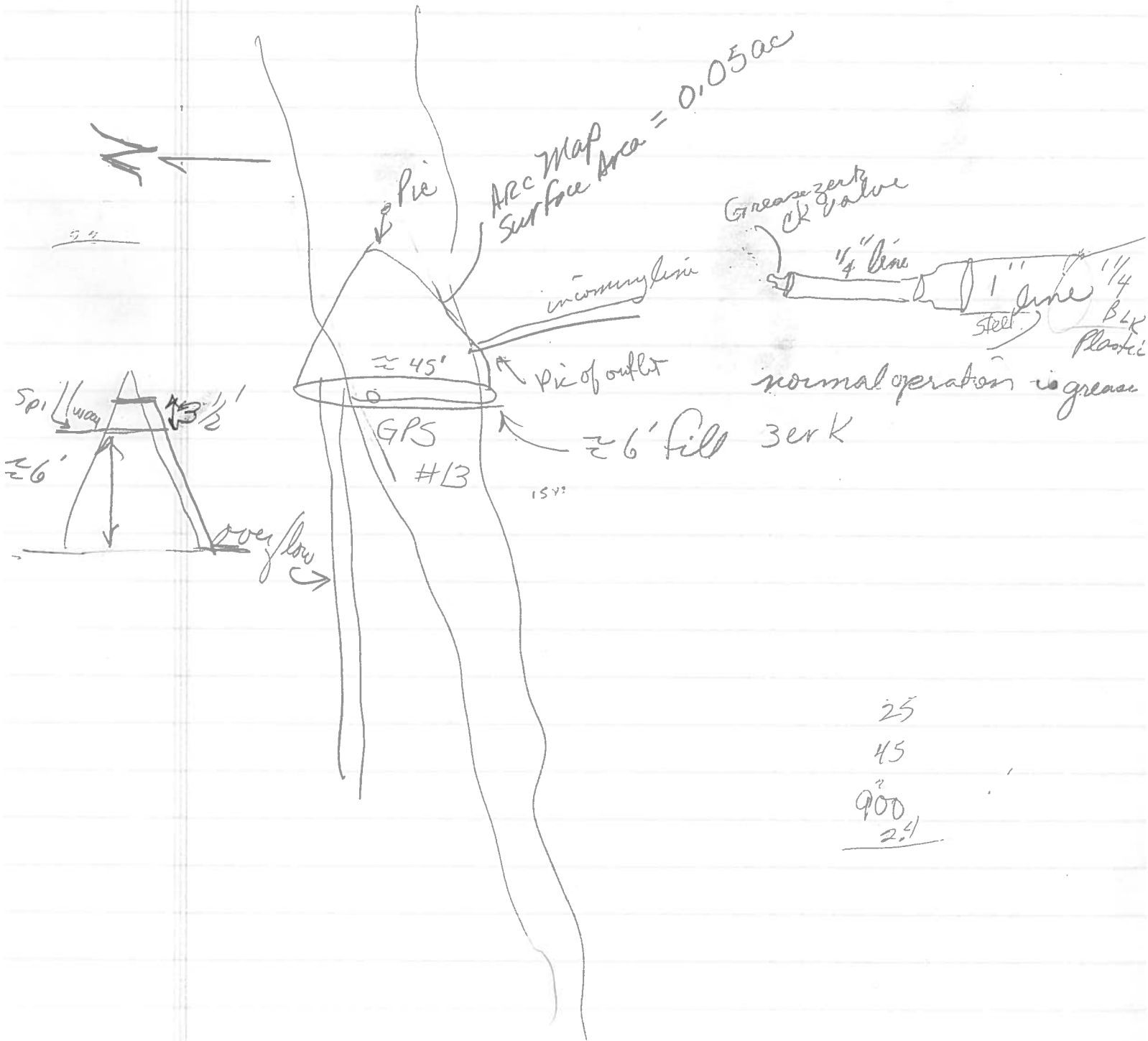


* 3 pics 3" line coming off of Bottom of reservoir and into 8" casing with 2nd 3" 1 inch line inside line for drain. casing then runs NE (buried) in a 1¼" line swinging westerly roughly 4,000' to another little pond. This yr is the 2nd full year since development.

For 2.5 af @ 0.28 ac surface Depth would have to be $\approx 9'$

Field exam notes
9-19-12

Pond in Sec 21 SWNE

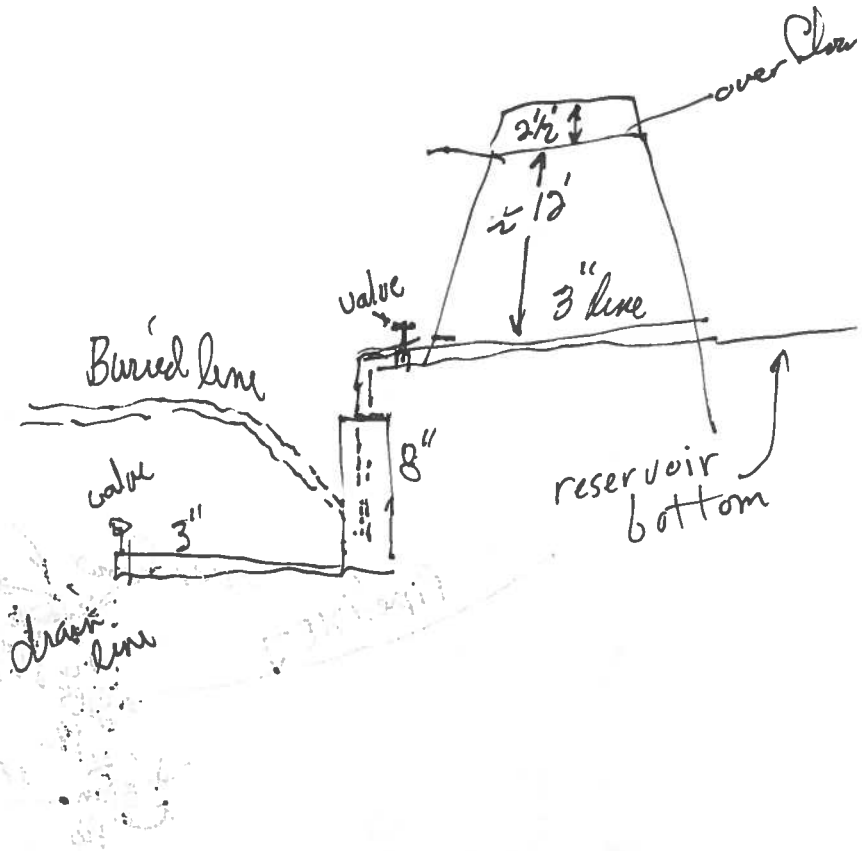


25

45

900

2.4



63-12566 Field exam photos

Exam date September 19, 2012

By: Kelly K Christensen

Photo set 1

You are looking east southeast on the left to south on the right. The visible spring sources are along the south to southeast and are above the reservoir water line. Mr McGrew stated that there were one or more seep areas below the water line.

Photo date September 19, 2012

Overflow

Flow in pipe $\approx \frac{1}{4}$ full

Photo set 2 "A" photo

"B" photo spring seeps



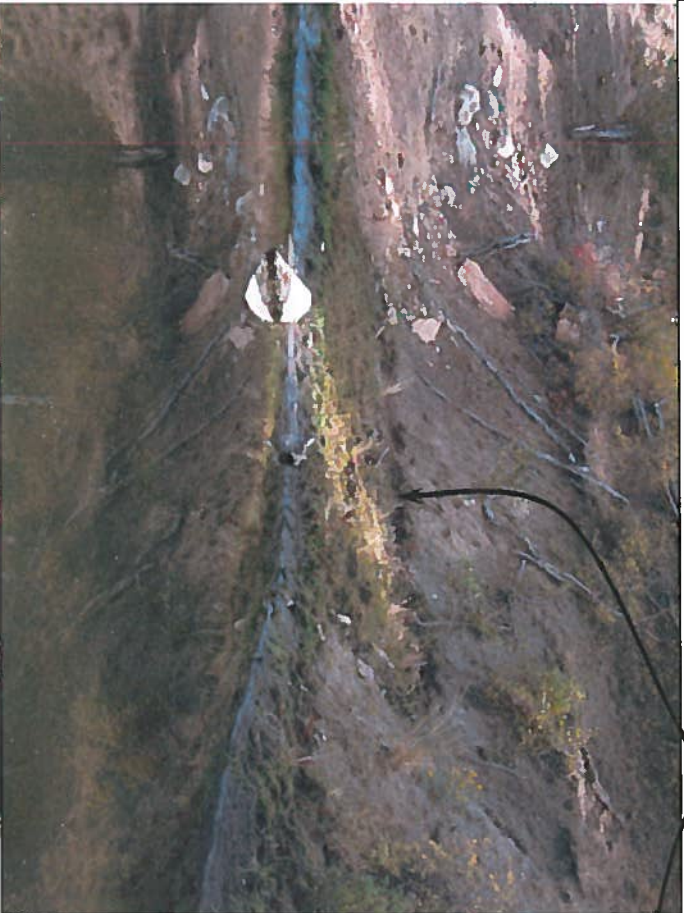
Photo set 2

Photo date September 19, 2012

This is a closer set of photos of the spring seeps that are the sources for this reservoir.

"A" south spring

Photo taken from dike and you are looking southeast.



Same spring

"B" photo

Taken from the east side of the reservoir looking southwest



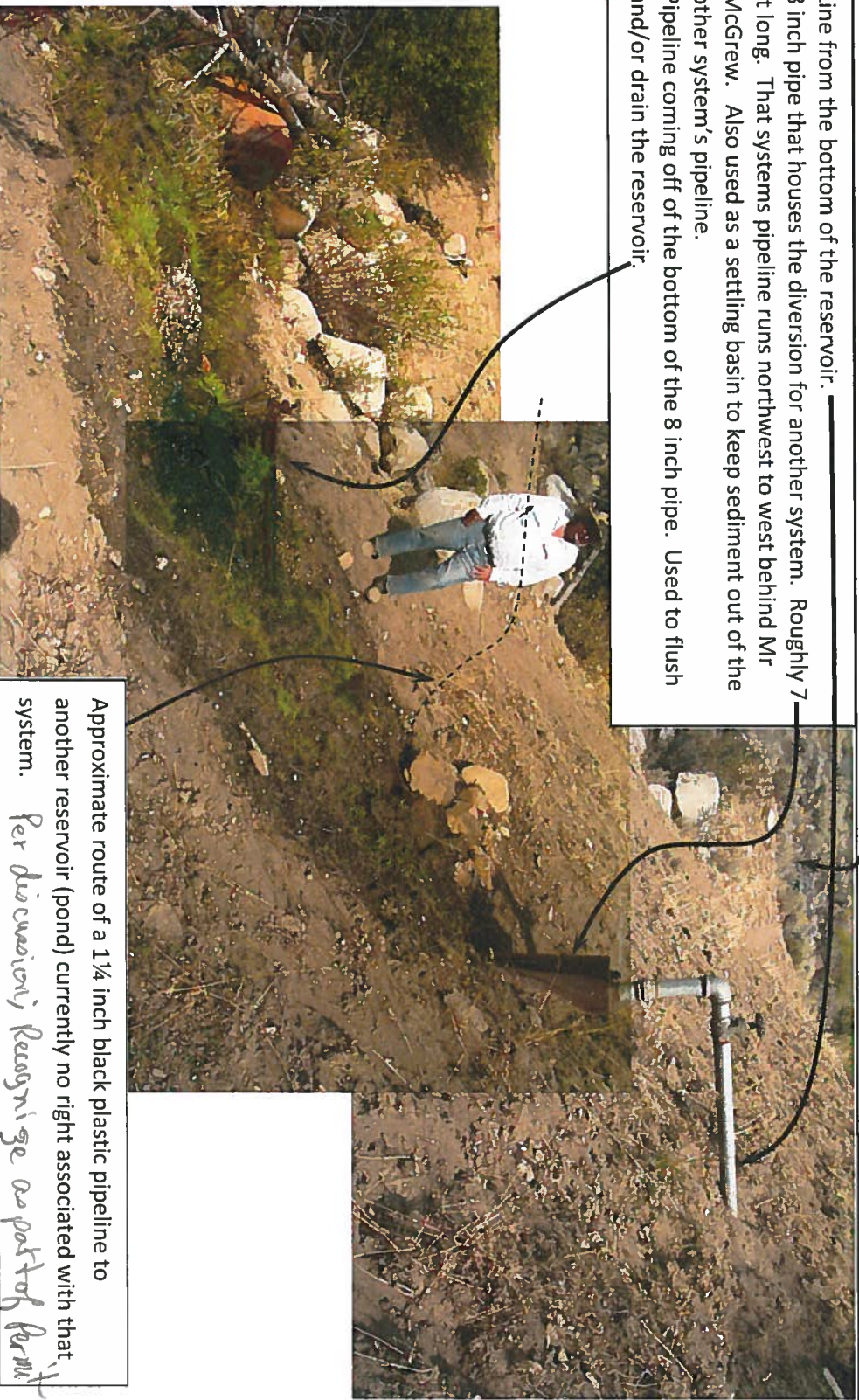
Photo set 3

Photo date September 19, 2012

This photo set is looking north to northwest and shows the downstream side of the reservoir dike. The pipe coming out of the dike comes from the bottom of the reservoir and is approximately 12 ft below the waterline when the reservoir is full.

Reservoir Overflow

Line from the bottom of the reservoir. 8 inch pipe that houses the diversion for another system. Roughly 7 ft long. That systems pipeline runs northwest to west behind Mr McGrew. Also used as a settling basin to keep sediment out of the other system's pipeline. Pipeline coming off of the bottom of the 8 inch pipe. Used to flush and/or drain the reservoir.



Approximate route of a 1 1/4 inch black plastic pipeline to another reservoir (pond) currently no right associated with that system. *Per discussion; Reassign as part of permit*

Photo set 4

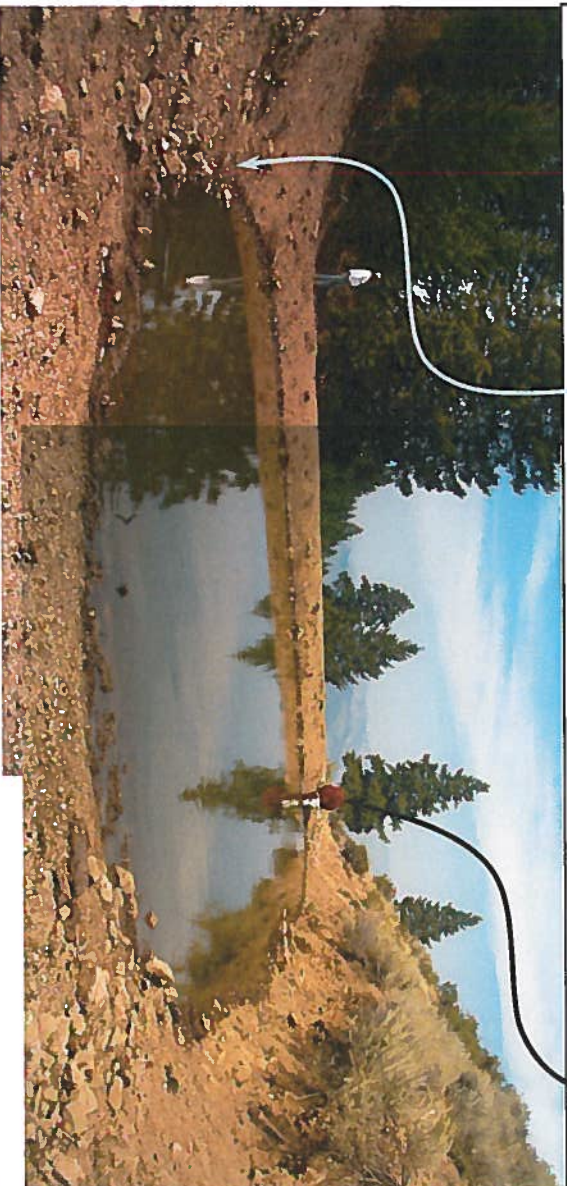
1N, 10E Sec 21 SWNW (pond location)

Exam date Sept 19, 2012

You are looking west in this photo set that shows the pond development. Maximum depth of the pond is 6 ft.

Incoming line

Beneficial use



System overview;

Secondary pond

Pipeline route (closely follows the 5200 ft contour line

Main reservoir

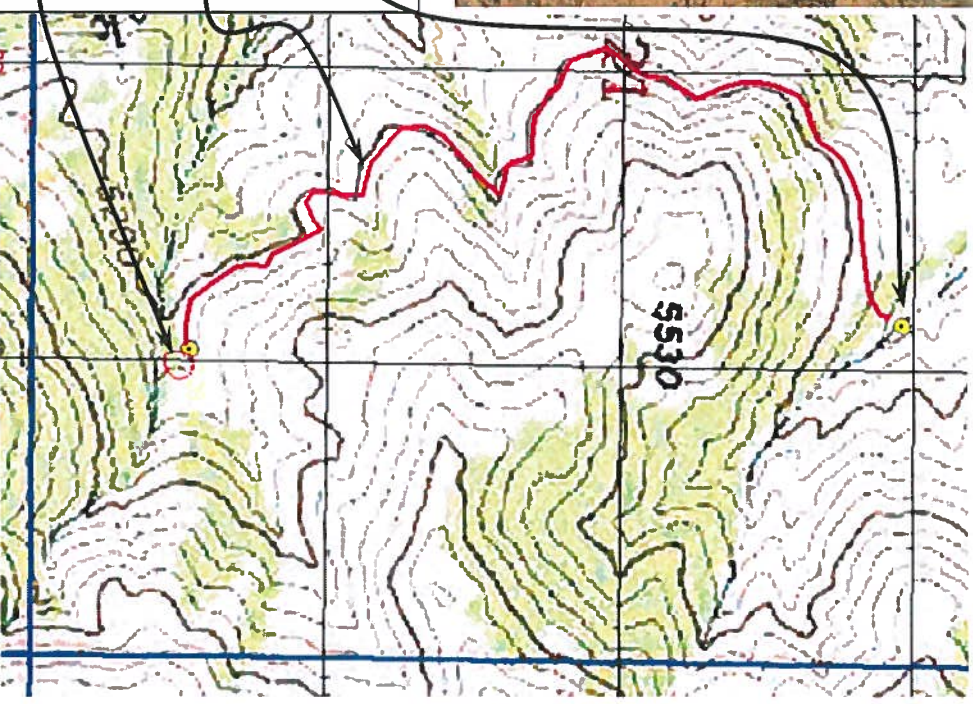


Photo set 5

These photos show the grease zerk control on the incoming line. You are looking down in these photos.

Exam date Sept 19, 2012

Grease Zerk ¼ inch steel line

1 inch steel line

