

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

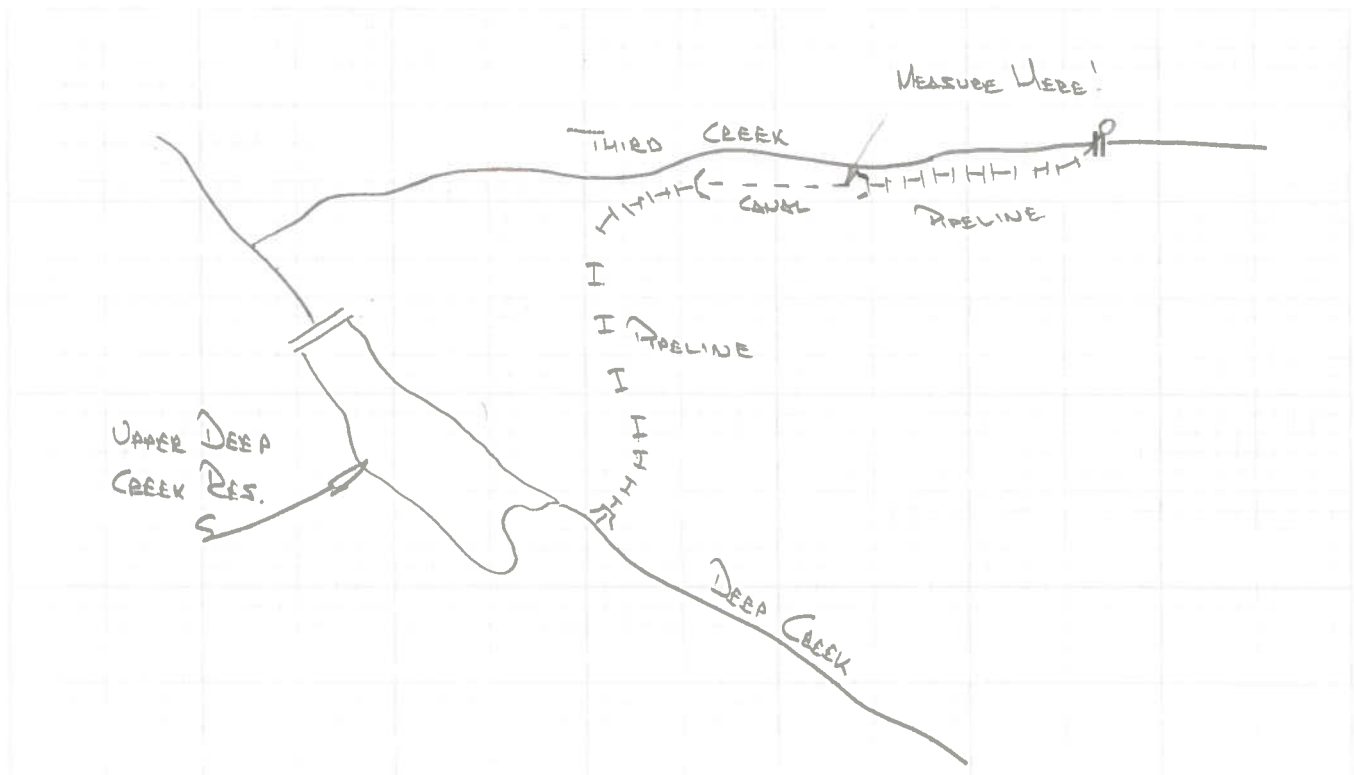
1. Owner: DEEP Creek Irrigation Permit No. 15-2073
Current Address: _____ Phone No. _____
2. Accompanied by: _____ EXAM. DATE: 1993/2013
Address: MALAD CITY, ID Phone No. _____
Relationship to Permit Holder: _____
3. Source: DEEP CRK tributary to MALAD RIVER
THIRD CRK DEEP CREEK

B. OVERLAP REVIEW

1. Other water rights with same place of use: 15-8, 15-37, 15-41, 15-51, 15-52
15-53, 15-54, 15-55, 15-56, 15-57, 15-2077 ☐ Copies Attached
2. Other water rights with same point of diversion: 15-37
_____ ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = _____.

2. ☐ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required). ☒ Aerial Photo Attached
(required for irrigation of 10 acres or more).
☐ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

System Description (continued)

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

This water right Authorizes the storage
of Deep Creek and Third Creek water
in the Upper Deep Creek Res

THE DIVERSION TO STORAGE FROM THIRD CREEK IS
COVERED BY DECREED RIGHT 15-37

☐ See Remarks on page 4 for continuation

- 4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

5. **Point(s) of Diversion:**

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			SW	NW	21	14S	37E	Oneida	GPS/AIR PHOTOS

6. **Place(s) of Use:**

Indicate Method of Determination _____

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
14S	37E	21							X		X	X	X	X	—				RESERVOIR

PLACE of use within service AREA
of Deep Creek Irrigation Co.

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

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

2. Measurements:

DAM safety records

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

512 AF from Dam Inspection Record

H. REMARKS AND OVERLAP REVIEW ANALYSIS

One fill/year of this reservoir

STORAGE ONLY WATER RIGHT

THIRD CREEK ENTERS THE RESERVOIR THRU A
DITCH.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRR FROM STOR	4/1	10/31		512
IRR STORAGE	1/1	12/31		512
Totals:				

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

J. AUTHENTICATION

Field Examiner's Name

DAVE CARLSON

Signature

Certification Date

Field Report Preparation Date

CONSULTANT SEAL

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECORD OF INSPECTION OF DAM

File No. 15-2073
Date : 11/12/2009

Name of Dam: Deep Creek Dam (Upper Res)
Name of Owner: Deep Creek Irrigation Company
Individuals Accompanying Inspector: Joe Kaufman
Reservoir Characteristics: Dam Height : 32 feet
Hazard Classification: H (revised)

Stream: Deep Creek
Location: Sec 18, T14S, R37E

☐ Offstream

Storage Capacity: 512 acre-feet

Photographs : yes

CONDITION OF STRUCTURE : ☐ - Satisfactory ☒ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated

TYPE : ☒ - Earth ☐ - Rockfill ☐ - Conc. Arch ☐ - Conc. Gravity ☐ - Timber Crib ☐ - Other _____

	UPSTREAM SLOPE	CREST	DOWNSTREAM SLOPE	TOE AREA
SURFACE COVER MATERIAL	rock and soil	soil	soil	soil
GROWTH	A few woody bushes	none	weeds, sage brush, and rose bushes	willows
SETTLEMENT Or CRACKS	none observed	none observed	none observed	none observed
SURFACE EROSION	minor	none observed	cattle/game trails	none observed
DEBRIS	none observed	none	none observed	none observed
ANIMAL BURROWS	none observed	none observed	minor	none observed
CREST WIDTH AND SLOPE MEASUREMENTS	3.5:1	100' minimum	2.5:1 includes downstream berm	—

CONDITION OF OUTLET WORKS ; ☒ - Satisfactory ☐ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated

Location ; ☐ - Left Side ☒ - Center ☐ - Right Side ☐ - Other _____

Description and Condition;

Outfall is twin 10-inch cast iron outlet pipes that reportedly are connected inside a concrete manifold box within the body of the embankment.

Upstream inlet is a single 18" cast-iron pipe.

Concrete inlet box is beginning to suffer age/ freeze-thaw related deterioration

Gate shaft inclined on the upstream slope of the dam; manual operator

Valve is contained within a steel bonnet; probably globe or butterfly variety

Gate Hoist : ☒ - Manual ☐ - Electric ☐ - Other _____

Stem : ☒ - Inclined from entrance to crest ☐ - Vertical on tower at entrance

☐ - Vertical through dam crest ☐ - Downstream valve

Entrance ; visible, protected by trashrack

Outlet : open and flowing at time of inspection ~15 gpm

CONDITION of SPILLWAY : ☐ - Satisfactory ☒ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated

Location : ☒ - Left abutment ☐ - Right abutment ☐ - Away from dam ☐ - Other _____

Base width : 12' Freeboard at crest : ~3.3' Sideslope : Trap Channel slope : uncontrolled

Over flow channel : ☒ - Well defined ☒ - Flow directed away from toe ☐ - Flow could reach toe

Erosion control present : earthen channel

Erosion present : none observed

Maintenance condition : Debris

Growth weeds and brush

Description and Condition;

Uncontrolled entrance; overgrown with weeds and woody/brushy vegetation.

Spillway channel appears to be reverse graded; slightly higher in a downstream direction

UPPER DEEP CREEK DAM

Summary Table

<u>TYPE</u>	Earthfill
<u>HEIGHT</u>	
Structural	39 ft.
Hydraulic	35 ft.
<u>LENGTH</u>	523 ft.
<u>TOP WIDTH (minimum)</u>	
Crest	10 ft.
Berm	45 ft.
<u>SLOPES</u>	
Upstream	3.5:1
Downstream (average)	3.8:1
<u>RESERVOIR (at spillway crest, elev. 5344 ft)</u>	
Surface area	33 acres
Storage	512.2 ac-ft.
<u>OUTLET WORKS</u>	
Conduit size	2-10" cast iron pipes
Gate	18" gate valve
Discharge (reservoir @ gage 5344 ft.)	22.7 cfs
<u>DRAINAGE AREA</u>	
Third Creek	3.5 sq. mi. 7.8 sq. mi.
<u>EMERGENCY SPILLWAY</u>	
Width	Earth channel 12 ft.
Discharge capacity:	
@ top of dam (elev. 5347.6 ft.)	568.3 cfs
@ required freeboard (elev. 5344.4 ft.)	9 cfs

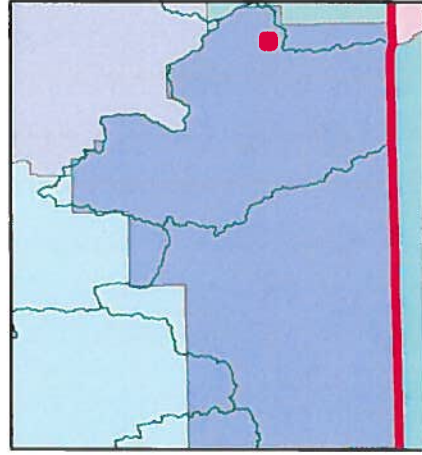


Idaho Department of Water Resources

Water Right
15-2073

(IRRIGATION STORAGE)

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Oneida County
IDWR Basin 15

Prepared by Carlson, Dave

2009 Aerial Photography

