

10/28/2009

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 73-10066

NAME AND ADDRESS: GEORGE E SANTEE JR
PO BOX 2341
IDAHO FALLS ID 83403-2341

SOURCE: PATTERSON CREEK TRIBUTARY: PAHSIMEROI RIVER

QUANTITY: 2.100 CFS

PRIORITY DATE: 04/01/1960

POINT OF DIVERSION:

T14N R22E S8 NWNW Within LEMHI County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
STOCKWATER	01/01 12/31	2.100 CFS
IRRIGATION	04/01 10/31	2.100 CFS

PLACE OF USE: IRRIGATION in LEMHI County

T14N R21E S01 Lot 1 NENE	20.00	T14N R22E S06 Lot 3 NENW	3.30
T14N R22E S06 Lot 4 NWNW	19.00	T15N R21E S36 SESE	40.00
T15N R22E S31 Lot 4 SWSW	40.00	T15N R22E S31 SESW	17.00

STOCKWATER same as IRRIGATION

139.3 ACRES TOTAL

The rights listed below are limited to the irrigation of a combined total of 304.8 acres in a single irrigation season. Combined Right Nos.: 73-36B, 73-61, 73-2052A, 73-2052B, 73-4028, 73-4083, 73-4086, & 73-10066

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use.

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

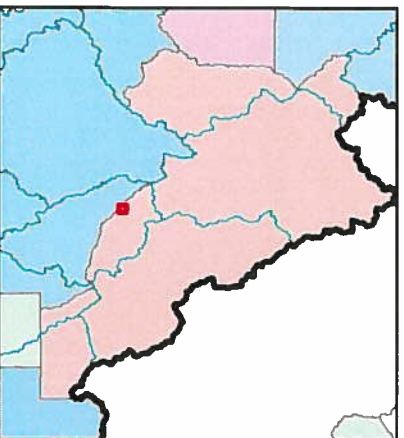
Stockwater use is for 500 range cattle.

1.98 cfs of Right 73-10066 is used for conveyance losses for stockwater use from 11/1 to 3/31.

Source is also known as Big Spring Creek, Spring Creek or O Neal Creek.

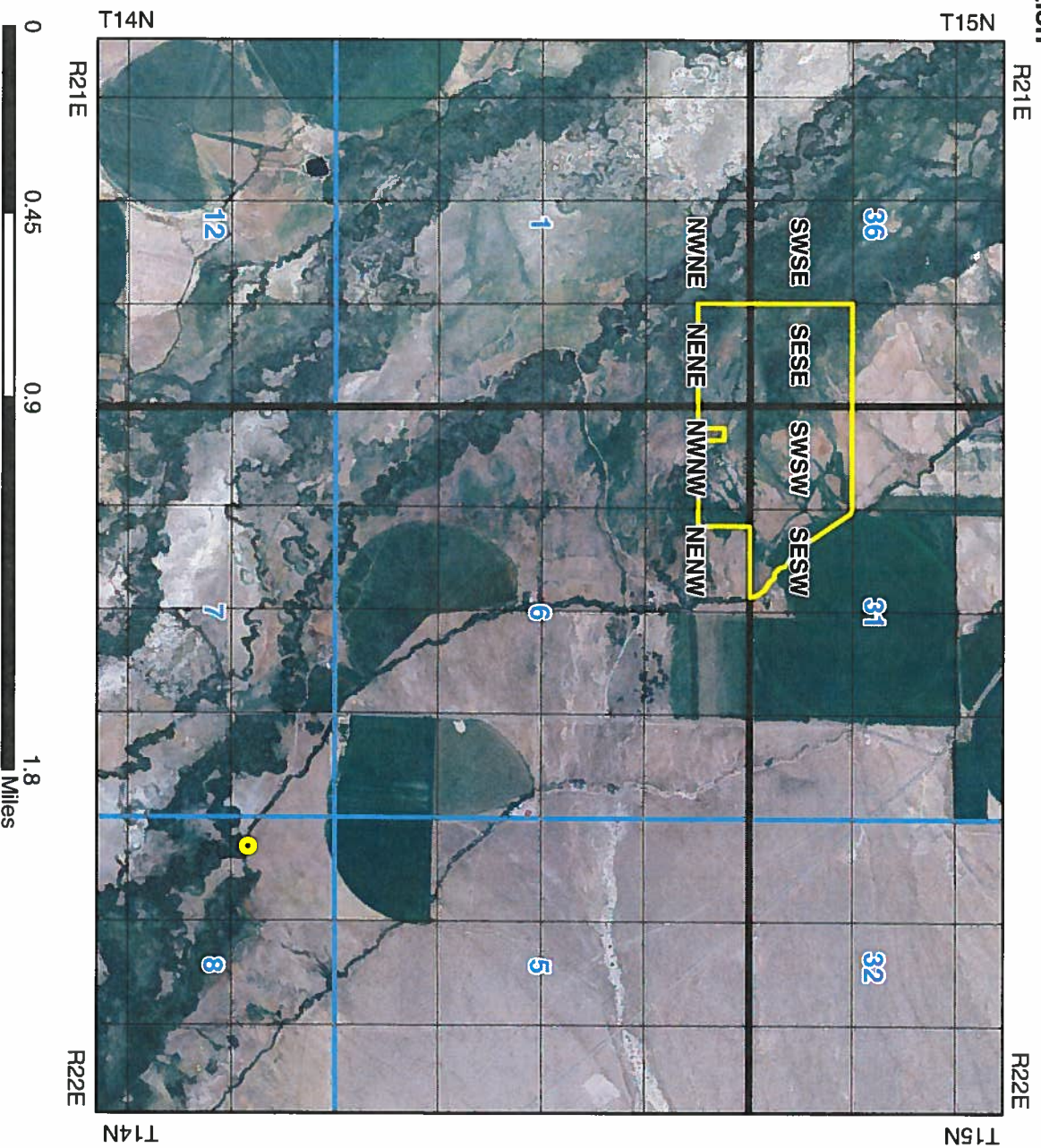
73-10066
(IRRIGATION)

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



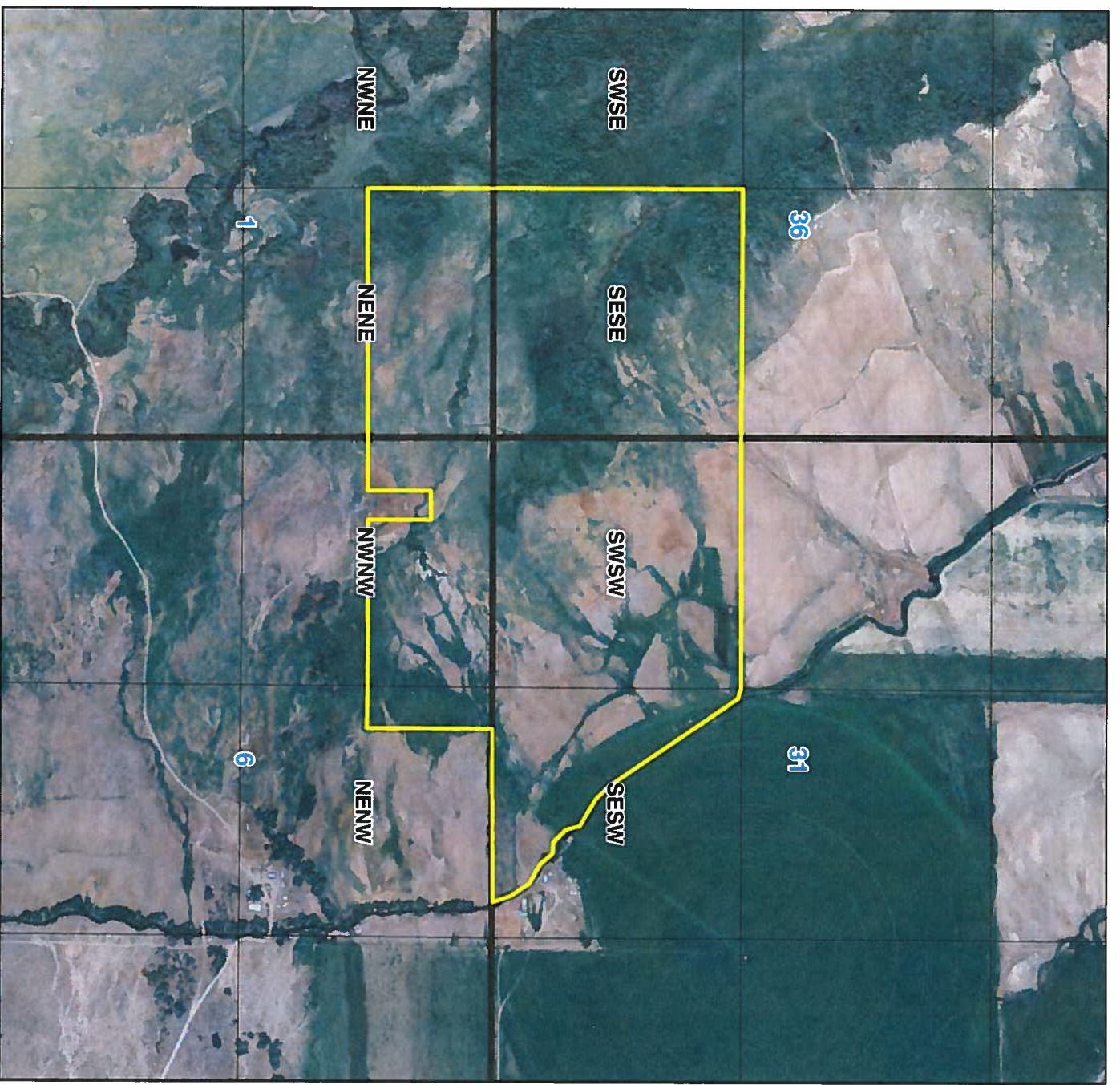
**Lemhi County
IDWR Basin 73**

Prepared by Craig Saxton
On October 16, 2009





73-10066



IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Recommendation Report 73-10066 V2

WATER RIGHT NUMBER: 73-10066 V2

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	GEORGE E SANTEE JR PO BOX 2341 IDAHO FALLS, ID 83403-2341 (208)522-0202

Priority Date: 04/01/1960
Basis: Beneficial Use
Status: Active

<u>Source</u>	<u>Tributary</u>
PATTERSON CREEK	PAHSIMEROI RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
STOCKWATER	01/01	to 12/31	2.100 CFS	
IRRIGATION	04/01	to 10/31	2.100 CFS	
	<u>Total Diversion:</u>		2.100 CFS	

Location of Point(s) of Diversion

PATTERSON CREEK	NW1/4NW1/4	Sec. 8,	Twp 14N,	Rge 22E, B.M.
LEMHI County				

Place of Use

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14N	21E	1	20.0																20.0
			L 1																
14N	22E	6					3.3	19.0											22.3
							L 3	L 4											
15N	21E	36															40.0		40.0
15N	22E	31											40.0	17.0					57.0
													L 4						

Total Acres: 139.3

STOCKWATER same as IRRIGATIONConditions of Approval:

1. X02 Stockwater use is for 500 range cattle.
2. E56 The rights listed below are limited to the irrigation of a combined total of 304.8 acres in a single irrigation season. Combined Right Nos.: 73-36B, 73-61, 73-2052A, 73-2052B, 73-4028, 73-4083, 73-4086, & 73-10066

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Recommendation Report 73-10066 V2

3. N08 The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use.
4. X56 1.98 cfs of Right 73-10066 is used for conveyance losses for stockwater use from 11/1 to 3/31.
5. B01 Source is also known as Big Spring Creek, Spring Creek or O Neal Creek.
6. C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

Remarks:

Comments:

1. csaxton 10/16/2009 Version 2

Comment: Version 2 created for objection resolution.

2. csaxton 10/16/2009 Diversion Rate

Comment: Recommended flow rate copied from Version 1. Notes on the version 1 recommendation indicate that the recommended diversion rate was based on Missouri Canal reading.

3. csaxton 10/28/2009 Stock Diversion Rate

Comment: Diversion rate for stockwater includes 1.95 cfs for ditch loss as calculated by SPF using the Worstall calculation. The max stock at one time is 500 head which requires 0.12 cfs using IDWR standard charts. Total stock diversion rate calculated as 2.07 cfs. Recommended diversion rate for irrigation under this right is 2.1 cfs. For ease of administration and because the ditch loss calculation is a theoretical calculation, recommend 2.1 cfs total for stock water with 1.98 cfs for ditch loss.

Water Supply Bank:

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Recommendation Report 73-10066 V1

WATER RIGHT NUMBER: 73-10066 V1

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	GEORGE E SANTEE JR PO BOX 2341 IDAHO FALLS, ID 83403-2341 (208)522-0202

Priority Date: 04/01/1960
Basis: Beneficial Use
Status: Closed

<u>Source</u>	<u>Tributary</u>
PATTERSON CREEK	PAHSIMEROI RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	2.100 CFS	
	<u>Total Diversion:</u>	2.100 CFS	

Location of Point(s) of Diversion

PATTERSON CREEK	SE1/4NW1/4NW1/4	Sec. 8,	Twp 14N,	Rge 22E, B.M.
LEMHI County				

Place of Use

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14N	21E	1	20.0															20.0	
			L 1																
14N	22E	6					3.2	19.0										22.2	
							L 3	L 4											
15N	21E	36															40.0	40.0	
																	L 1		
15N	22E	31										40.0	17.0					57.0	
												L 4							

Total Acres: 139.2

Conditions of Approval:

1. C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.
2. E55 Right Nos. 73-36B and 36-10066 are limited to the irrigation of a combined total of 98 acres in a single irrigation season.

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Recommendation Report 73-10066 V1

3. B01 Source is also known as Spring Creek or Big Spring Creek.
4. E56 The rights listed below are limited to the irrigation of a combined total of 139.2 acres in a single irrigation season. Combined Right Nos.: 73-36B, 73-4086, 73-10066.

Remarks:

Comments:

1. zmaillard 4/18/2005 POD
Comment: Updated shape

SubCase:

SubCase Number: 73-10066
Class: 1
SF5 Filed Date:
Special Master Recom Signed Date:
Attorney Assigned:
Adjudication Agent: dshaff
Basis of Claim: Beneficial Use
Date Filed: 10/26/2007 Objection Status: Active

Water Supply Bank:

Roxanne Brown

From: Santee, George E. Jr. [GEORGE.E.SANTEE.JR@saic.com]
Sent: Tuesday, October 27, 2009 7:14 AM
To: Roxanne Brown
Subject: RE: cows on the Pahsimeroi

Hi Roxanne,

1. 500 cows on a short term basis and 300 cows over the winter. At other times in the past, 200 cows, 350 sheep, 4 horses.
 2. In addition to Scott Whitworth, users would be: Jim Martiny, Dixie Whitworth, Thad Whitworth, Moens, and what used to be the Spring Creek Grazing Association (Howard Cutler but recently sold, Thad may be leasing some or all of the property).
- George

From: Roxanne Brown [mailto:RBrown@spfwater.com]
Sent: Mon 10/26/2009 4:09 PM
To: Santee, George E. Jr.
Subject: cows on the Pahsimeroi

George,

I have a meeting tomorrow at 10:00 with IDWR to discuss their recommendation of your amended claims. It would be helpful to know a couple of things:

1. How many cows have you historically run on the place in the winter? I mean the highest number, not an average.
2. We are asking for stockwater in the Missouri Canal; who else is using the canal for stockwater in the winter? Scott Whitworth? Anyone else?

Let me know, if you can, before the meeting. Thank you!

Roxanne Brown

SPF Water Engineering LLC
300 E. Mallard Dr., Suite 350
Boise ID 83706
(208) 383-4140
rbrown@spfwater.com

CONVEYANCE LOSS - WORSTELL

NAME OF DITCH: Santee

BY: Roxanne Brown

DATE: October 27, 2009

REACH	LENGTH (FT)	AVE WIDTH (FT)	SEEPAGE (FT/DAY)	WORSTELL LOSS (CFS)
1	438	7.0	1.00	0.04
2	1184	7.0	2.00	0.21
3	6400	7.0	3.00	1.70
4				0.00
5				0.00
6				0.00
7				0.00
8				0.00
9				0.00
TOTALS	8022			1.95

REACH = SECTION OF CHANNEL

LENGTH = LENGTH OF REACH, THE CHANNEL CAN BE DIVIDED INTO EQUAL LENGTH REACHES
OR ACTUAL LENGTHS BETWEEN DELIVERY POINTS

AVE WIDTH = AVERAGE TOP WIDTH OF WATER SURFACE IN REACH

SEEPAGE = SOIL SEEPAGE RATE OF REACH

WORSTELL LOSS = CONVEYANCE LOSS IN REACH BASED ON WORSTELL METHOD

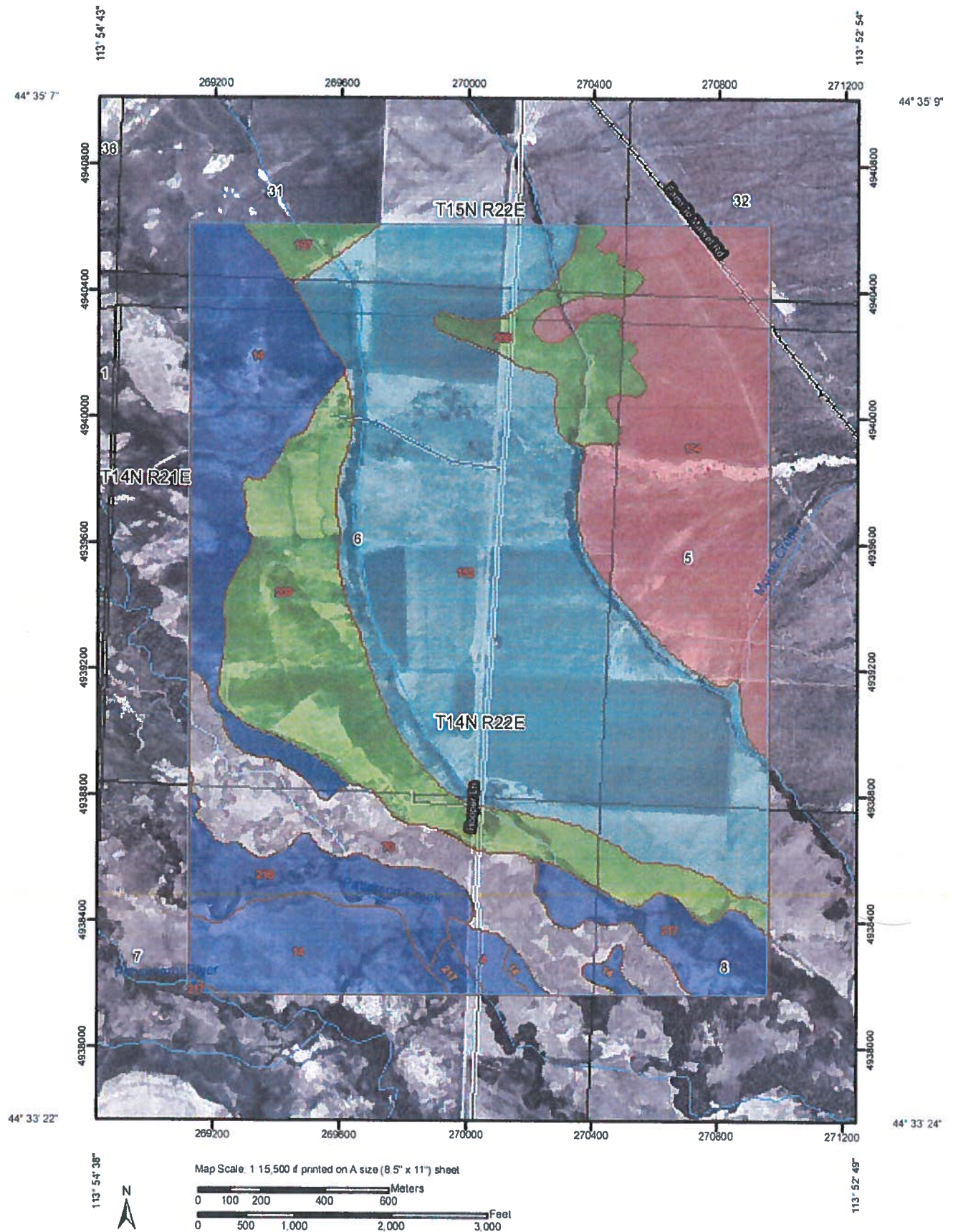
Notes:

- 1 Length of ditch determination based on GIS imagery.
- 2 Width of ditch based on claimant's statement
- 3 Seepage factor based on Hart, "Estimating Seepage Losses from Canal Systems" (Worstell) and soil data from NRCS online database.

NRCS Data

Reach No	Soil No. and Description
1	217 Thosand Wiskisprings complex, 0 to 2 percent slopes'
2	209 Sprabat Snowslide complex, 1 to 8 percent slopes'
3	152 Pahsimeroi gravelly loam, 2 to 6 percent slopes'

All Ecological Sites — Rangeland—Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi Counties



MAP LEGEND

 Area of Interest (AOI)	 Major Roads
 Area of Interest (AOI)	 Local Roads
 Soils	
 Soil Map Units	
Soil Ratings	
 R012XY004ID -- GRAVELLY LOAM 8-12 ARTRW8/PSSPS	
 R012XY009ID -- SALINE GRAVELLY 7-9 ATCO/ACHY-HECOC8	
 R012XY023ID -- DRY MEADOW PONE3-PHAL2	
 R012XY030ID -- LOAMY 7-10 ARTRW8/POSE	
Not rated or not available	
Political Features	
 Cities	
 PLSS Township and Range	
 PLSS Section	
Water Features	
 Oceans	
 Streams and Canals	
Transportation	
 Rails	
 Interstate Highways	
 US Routes	

MAP INFORMATION

Map Scale: 1:15,500 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000. Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 12N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi Counties
 Survey Area Date: Version 9, Jan 29, 2008

Date(s) aerial images were photographed: 9/7/2000; 7/13/1999

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

All Ecological Sites — Rangeland

Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi Counties				
Map unit symbol	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
4	Arco (90%)	R012XY023ID — DRY MEADOW PONE3-PHAL2	7.7	0.7%
	Bigrant (5%)	R012XY039ID — SEMIWET MEADOW		
	Thosand (5%)	R012XY023ID — DRY MEADOW PONE3-PHAL2		
14	Bigrant (35%)	R012XY023ID — DRY MEADOW PONE3-PHAL2	155.4	14.0%
	Thosand (30%)	R012XY038ID — MEADOW DECA18/CANE2		
	Dickeypeak (20%)	R012XY018ID — SALINE LOAMY 8-11 SAVE4/LEC14		
	Chillybu (5%)			
70	Fezip (35%)	R043AY007ID — MEADOW DECA18-CANE2	85.5	7.7%
	Lemrol (25%)			
	Redfish (15%)			
152	Pahsimeroi (90%)	R012XY030ID — LOAMY 7-10 ARTRW8/POSE	406.0	36.6%
154	Pahsimeroi (85%)	R012XY004ID — GRAVELLY LOAM 8-12 ARTRW8/PSSPS	183.8	16.5%
197	Snowslide, dry (90%)	R012XY009ID — SALINE GRAVELLY 7-9 ATCO/ACHY- HECOC8	10.4	0.9%
209	Sprabat (65%)	R012XY009ID — SALINE GRAVELLY 7-9 ATCO/ACHY- HECOC8	183.4	16.5%
	Snowslide (25%)	R012XY009ID — SALINE GRAVELLY 7-9 ATCO/ACHY- HECOC8		
216	Thosand (45%)	R012XY023ID — DRY MEADOW PONE3-PHAL2	41.3	3.7%
	Sancrane (35%)	R012XY023ID — DRY MEADOW PONE3-PHAL2		
	Aquolls, shallow to sand & gravel (10%)			
217	Thosand (45%)	R012XY023ID — DRY MEADOW PONE3-PHAL2	37.5	3.4%
	Wiskisprings (35%)	R012XY023ID — DRY MEADOW PONE3-PHAL2		
Totals for Area of Interest			1,110.8	100.0%

Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi Counties

217—Thosand-Wiskisprings complex, 0 to 2 percent slopes

Map Unit Setting

Elevation: 4,500 to 6,600 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 36 to 43 degrees F

Frost-free period: 20 to 60 days

Map Unit Composition

Thosand and similar soils: 45 percent

Wiskisprings and similar soils: 35 percent

Description of Thosand

Setting

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: 40 to 60 inches to strongly contrasting
textural stratification

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 2.00 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: Occasional

Frequency of ponding: Frequent

Calcium carbonate, maximum content: 70 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0
mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 5w

Land capability (nonirrigated): 5w

Ecological site: DRY MEADOW PONE3-PHAL2 (R012XY023ID)

Typical profile

0 to 5 inches: Slightly decomposed plant material

5 to 10 inches: Silt loam

10 to 27 inches: Silt loam

27 to 44 inches: Gravelly silt loam

44 to 49 inches: Very gravelly silt loam

49 to 65 inches: Extremely gravelly loamy sand

Description of Wiskisprings

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 40 to 60 inches to strongly contrasting
textural stratification
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high to high (0.57 to 2.00 in/hr)
Depth to water table: About 6 to 12 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Land capability classification (irrigated): 5w
Land capability (nonirrigated): 5w
Ecological site: DRY MEADOW PONE3-PHAL2 (R012XY023ID)

Typical profile

0 to 8 inches: Silt loam
8 to 49 inches: Silt loam
49 to 54 inches: Gravelly loam
54 to 60 inches: Extremely gravelly loamy coarse sand

Data Source Information

Soil Survey Area: Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi
Counties

Survey Area Data: Version 9, Jan 29, 2008

Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi Counties

209—Sprabat-Snowslide complex, 1 to 8 percent slopes

Map Unit Setting

Elevation: 4,000 to 6,600 feet
Mean annual precipitation: 6 to 9 inches
Mean annual air temperature: 37 to 43 degrees F
Frost-free period: 50 to 100 days

Map Unit Composition

Sprabat and similar soils: 65 percent
Snowslide and similar soils: 25 percent

Description of Sprabat

Setting

Landform: Fan remnants
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from tuff

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 13.0
Available water capacity: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability (nonirrigated): 7e
Ecological site: SALINE GRAVELLY 7-9 ATCO/ACHY-HECOC8 (R012XY009ID)

Typical profile

0 to 5 inches: Gravelly sandy loam
5 to 7 inches: Sandy loam
7 to 41 inches: Gravelly sandy loam
41 to 53 inches: Gravelly loamy coarse sand
53 to 60 inches: Gravelly sandy loam

Description of Snowslide

Setting

Landform: Fan remnants
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Mixed alluvium and/or colluvium derived from
limestone and/or quartzite

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high to high (0.57 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Maximum salinity: Slightly saline to moderately saline (8.0 to 16.0
mmhos/cm)
Sodium adsorption ratio, maximum: 10.0
Available water capacity: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability (nonirrigated): 7e
Ecological site: SALINE GRAVELLY 7-9 ATCO/ACHY-HECOC8
(R012XY009ID)

Typical profile

0 to 7 inches: Gravelly loam
7 to 45 inches: Very gravelly loam
45 to 60 inches: Extremely gravelly sandy loam

Data Source Information

Soil Survey Area: Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi
Counties

Survey Area Data: Version 9, Jan 29, 2008

Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi Counties

152—Pahsimeroi gravelly loam, 2 to 6 percent slopes

Map Unit Setting

Elevation: 4,500 to 6,200 feet

Mean annual precipitation: 7 to 11 inches

Mean annual air temperature: 39 to 41 degrees F

Frost-free period: 60 to 90 days

Map Unit Composition

Pahsimeroi and similar soils: 90 percent

Description of Pahsimeroi

Setting

Landform: Fan remnants, outwash fans

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium derived from quartzite

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: 10 to 20 inches to strongly contrasting textural stratification

Drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Very low (about 1.4 inches)

Interpretive groups

Land capability (nonirrigated): 6s

Ecological site: LOAMY 7-10 ARTRW8/POSE (R012XY030ID)

Typical profile

0 to 7 inches: Gravelly loam

7 to 17 inches: Extremely gravelly coarse sandy loam

17 to 32 inches: Extremely cobbly loamy sand

32 to 60 inches: Extremely gravelly sand

Data Source Information

Soil Survey Area: Custer-Lemhi Area, Idaho, Parts of Blaine, Custer, and Lemhi Counties

Survey Area Data: Version 9, Jan 29, 2008