

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A72-02061
Date Received: 12/04/1989
Receipt No: S010577
Received By:

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: KATHLEEN D. HARDING 208-726-3039
Address: BOX 5067
KETCHUM, ID 83340

Name: ANNE SHANNON 208-726-3039
Address: BOX 5067
KETCHUM, ID 83340

2. Date of Priority: APR 02, 1889

3. Source: SULLIVAN HOT SPRINGS Trib. to: SALMON RIVER
SULLIVAN CREEK SALMON RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
11N	17E	27	NE	SE			CUSTER
			NE	SE			CUSTER

5. Description of diverting works:
DAM, DITCHES, GRAVITY IRRIGATION

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	2.240		
DOMESTIC	01/01	12/31	0.040		
STOCKWATER	01/01	12/31	0.030		

7. Total Quantity Appropriated is:
2.240 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 280.0 Acre Feet Per Annum.

9. Non-irrigation uses:
D/1 CABIN, S/50-100 BEEF STOCK

A72-02061

Page 1

Date: 12/04/89

MICROFILMED
MAR 18 1993

10. Place of Use:

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
11N	17E	27	NW		NE		IRR	2.0
			SW		NE		IRR	40.0
			NE		NW		IRR	24.0
			SE		NW		IRR	25.0
			SE		NW		DOMEST	
			NW		SE		IRR	20.0
							Section Acres	111.0
							Total Acres	111.0

11. Place of use in counties: CUSTER

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:

AC. IRR.=111.3.

SOURCES FOR THIS RT. ARE SULLIVAN HOT SPRINGS & SULLIVAN CK.
ORIGINAL LICENSED PRIORITY WAS 11/20/1920. ACTUAL PRIORITY
DATES BACK TO 04/02/1889.

15. Basis of Claim: LICENSE
Water Right Number: 15008

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do do not wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments:

For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

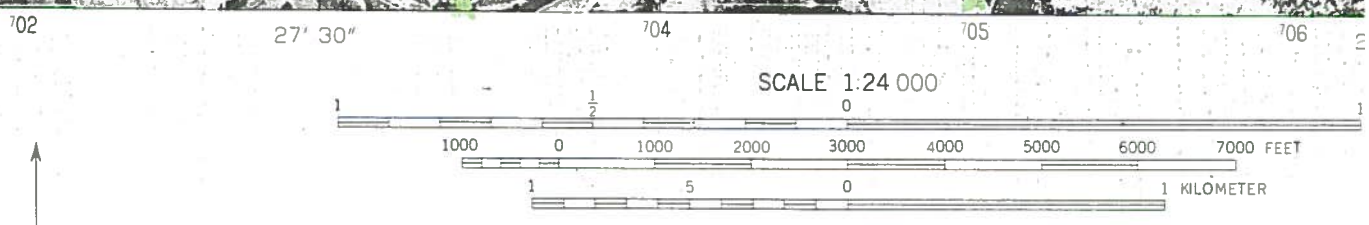
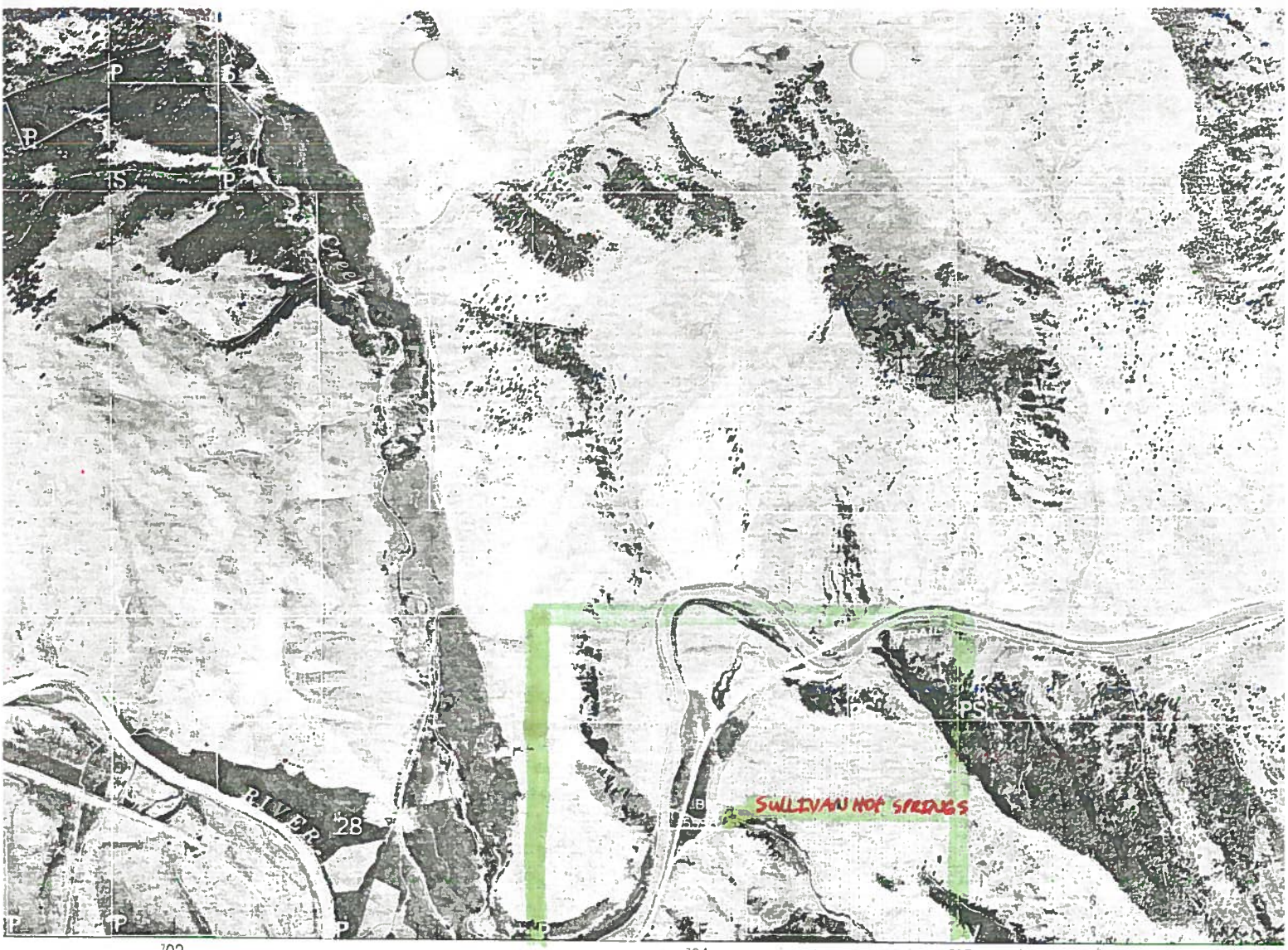
Signature of Claimant(s): *Kathleen A. Harding* Date: 12-4-89
Date:

State of Idaho)
County of TF) SS.

Subscribed and sworn (or affirmed) before me this 4 day
of Dec 19 89 *Lois White*
Notary Public

Seal

Residing at TF
My Commission Expires 5/94



Copies Of These Maps Can Be Obtained
At Bonneville Blue Print, Boise Idaho

MICROFILMED

MAR 1 1953

November 20, 1998

RECEIVED

DEC 21 1998

Department of Water Resources

Southern Region

Please type or print clearly, fill out this form completely and mail.

NOTICE OF ERROR
REPLY

RECEIVED
DEC 21 1998
Department of Water Resources
Southern Region

Return this reply form to IDWR by the deadline date printed below if you want IDWR to change your recommendation or you want to let IDWR know that you agree with its recommendation.

YOUR DEADLINE FOR RETURNING A NOTICE OF ERROR REPLY IS: December 18, 1998

Water right number: 72-02061

KATHLEEN D HARDING
ANNE SHANNON
PO BOX 5067
KETCHUM ID 83340

Daytime Telephone Number:

Evening Telephone Number:

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):
2. Describe the changes you wish to make in the proposed recommendation:
3. Give a brief explanation as to why you disagree with these portions:

☒ I AGREE with this proposed recommendation; no changes need to be made.

DATE: 12-14-98

SIGNATURE:

Kathleen D. Harding

Please print your name:

KATHLEEN D. HARDING

2

DATE: 11/16/98
PAGE: 1

DIVERSION
VOLUME

TOTAL DIVERSION: 2.24 CFS

Stage: LICENSE

CUSTER County

SE

SUM
26.2

SE

Other Rights: NONE

- THE QUANTITY OF WATER DECREED FOR THIS WATER RIGHT FOR DOMESTIC USE IS NOT A DETERMINATION OF HISTORICAL BENEFICIAL USE
- THE QUANTITY OF WATER UNDER THIS RIGHT FOR DOMESTIC USE SHALL NOT EXCEED 13,000 GALLONS PER DAY.

Dates:	Exam Made Date:	06/14/1993	Verified Date:	11/16/1998	Objection Filed Date:
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Field Inspection Flag:
Presumption Flag:

REEVALUATION OF IRRIGATION RATES BASED UPON 1997 REVISED HUBBLE ANALYSIS PROCEDURES

CLAIM NUMBERS

A72-02061

DATE: 11/16, 1998

REVIEWED BY See

CHALLIS AREA SOIL REVIEW

SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION		SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION	
	PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA		PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA
ATC	.15	.13			6.49	7.62	PD2	.11	.12			5.15	4.74
BB1	.09	.09			6.09	6.17	Q	.26	.21			13.2	10.4
BC1	.16	.17			5.82	5.46	RE2	.29	.21			3.15	4.74
BK1	.07	.06			10.62	11.86	RP1	.19	.21			4.89	4.57
BT1	.18	.16			3.99	4.19	SH1	.06	.05			9.37	12.10
BT2	.41	.32			2.34	2.87	SOC	.08	.07			7.38	8.08
CB1	.06	.06			11.55	13.47	SSA	.15	.14			4.79	5.01
CHA	.21	.21			4.52	4.76	SXF	.12	.11			6.14	6.80
CP1	.36	.36			2.61	2.78	TC1	.06	.06			9.82	9.55
DB1	.13	.11			5.66	6.65	TD1	.04	.03			12.46	16.50
DBB	.13	.11			5.71	6.69	WB2	.13	.13			5.37	5.43
DBC	.13	.11			5.71	6.69	WAA	.19	.16			3.81	4.23
DMF	.18	.21			5.12	4.72	WBB	.17	.14			3.36	3.84
DRF	.18	.19			9.08	9.68	WC1	.07	.06			11.24	13.45
DT2	.05	.04			12.46	16.50	WPT	.19	.15			3.16	3.69
DWA	.14	.14			4.79	5.01	WV1	.07	.06			11.24	13.45
GO1	.10	.12			12.47	10.51	XHS						
KEG	.08	.07			8.73	10.06	YN1	.18	.14			5.38	6.92
MBF	.15	.12			7.65	5.81							
MUG	.15	.14			4.54	4.98							
NDL	.13	.12			5.30	6.06							

The rate per acre calculations are based upon a 300 foot run at a 2% slope. An 8 hour set time was also used. Individual graded border evaluations, soil characteristics work sheets, and peak irrigation diversion requirement work sheets have been created and archived separately for each soil type.

Where actual rotation is shorter than the optimal rotation, optimal rotation is the criteria to be used for the recommendation analysis and, therefore, the rotation percentage adjustment is not necessary. The rate becomes the acres per soil type times the rate per acre from the above chart.

SOIL TYPE	OPTIMAL / ROTATION (chart)	ACTUAL / ROTATION (field)	ACRES PER SOIL TYPE (field)	RATE PER ACRE (chart)	TOTAL DIVERSION RATE
BK1	<u>+</u>	<u>+</u>	<u>8.5</u>	<u>.07</u>	= <u>0.50</u> CFS
Wbb	<u>+</u>	<u>+</u>	<u>17.7</u>	<u>.17</u>	= <u>3.01</u> CFS
	<u>/</u>	<u>/</u>			= <u> </u> CFS

* Limit of
Licence
Rate

TOTAL ACRES 26.2

License
DECREED RATE = 2.24
CLAIMED DIVERSION RATE = 2.24
MEASURED DIVERSION RATE = Less

361 cfs (FIR)
+ .04 c.f.s.
3.65 cfs

LAIM NUMBER

A72-02061

DATE

11/3/98

AGENT

See

TRANSFER NUMBER

CLAIMED ACRE TOTAL

111

GIS ACRE TOTAL

26.2

				NE				NW				SW				SE				
	TWP	RNG	SEC	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
LAIM	11N	17E	27		2	40		24			25	Ø					20			111
GIS					0.4	Ø		9.9			12.4	0.8					2.7			26.1
ECOM					0.4			9.9			12.4	0.8					2.7			26.1
LAIM																				
GIS																				
ECOM																				
LAIM																				
GIS																				
ECOM																				

372-DBPOU.SHP: 424 - N. pan

SHAPE NOS. 425 - east

426 - west

427 - Home

B72-DBPOD.SHP 428 - south

NOS. DESCRIPTION

271 - pod #1 - SENWSE

272 - Pod #2 - NE NWSE

273 - Pod #3 (a) - SWSWNE (Sull. Hot Springs) only

274 - (b) - SWSWNE

275 - Pod #4 - SESE NW (Lot 7)

DBF TABLES UPDATED

B72-DBPOU.DBF

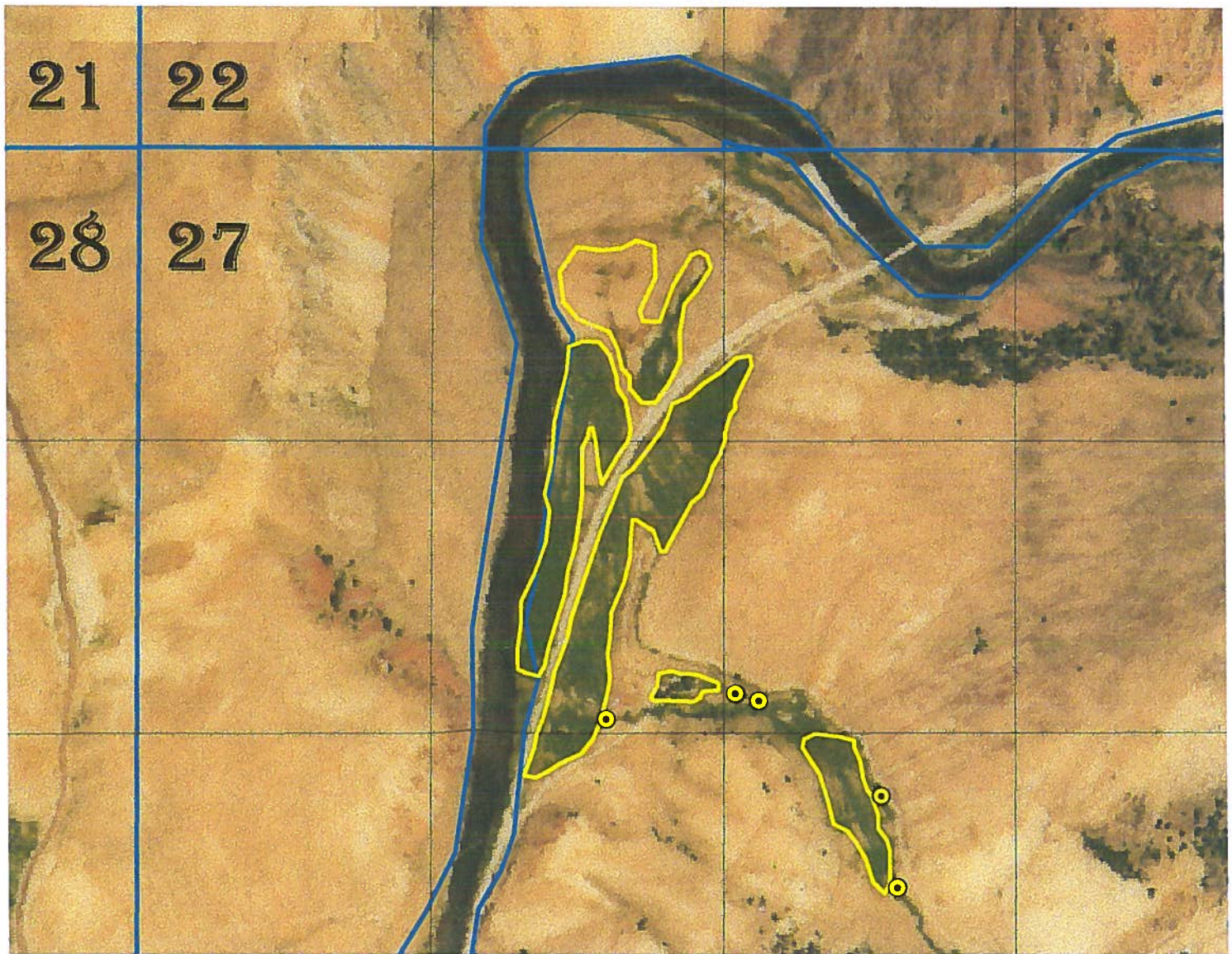
B72-DBPOD.DBF

JPEG LAYOUT

72-02061.jpg

IDAHO DEPARTMENT OF WATER RESOURCES

72-02061



660 0 660 1320 Feet

-  RECOMMENDED PLACE OF USE
-  RECOMMENDED POINT OF DIVERSION
-  SECTION LINES
-  QUARTER-QUARTER LINES
-  STREAMS & DITCH CHANNELS

TWN: 11N
RNG: 17E
SEC: 27



GIS PLACE OF USE PRESENTATION
USFS AERIAL PHOTOGRAPHY, 1988
BY STEVE CLELLAND

DATE: NOV. 3, 1998

DIVERSION
VOLUME

1.25 CFS
0.04 CFS

1.29 CFS

Stage: LICENSE

SENSE CUSTER County

21

SE	:	SUM
AC	:	

• •

2

SE ..
AC ..
- -

..

Other Rights: NONE

TWO POINTS OF DIVERSION LOCATED IN SWSANE, S27, T11N, R17E.
0.04 CFS OF THIS RIGHT IS LIMITED TO USE FOR CONVEYANCE
LOSSES IN DELIVERY OF THIS RIGHT.

05/20/1994

Field Inspection Flag:

User-ID: CLELLAND Subject: COPIED FROM REMARKS

MICROFILMED
NOV 01 1994

Comments: Date: 05/20/1994 User-ID: CLELAND Subject: COPIED FROM REMARKS
SOURCES FOR THIS RT. ARE SULLIVAN HOT SPRINGS & SULLIVAN CK.
ORIGINAL LICENSED PRIORITY WAS 11/20/1920. ACTUAL PRIORITY
DATES BACK TO 04/02/1889.

Date: 05/20/1994 User-ID: CLELAND Subject: RECOMMENDATION
A DIVERSION RATE OF 0.04 CFS PER ACRE AT THE FIELD HEADGATE IS
INCLUDED IN THE RATE OF DIVERSION FOR 8.5 ACRES AND A RATE OF
0.049 CFS PER ACRE FOR 17.7 ACRES AS PER THE HUBBLE ANALYSIS.

Audit: 05/20/94 CLELAND

MICROFILMED
MAY 01 1994

POOR ORIGINAL

T
||
N

R 17E

CLAIM A72-2061 INIT SCW
T. R. S. Q/Q 5-19-94
P/D SEE LISTING BELOW LEFT
PHOTO U73
DT. & ID. 7-24-74

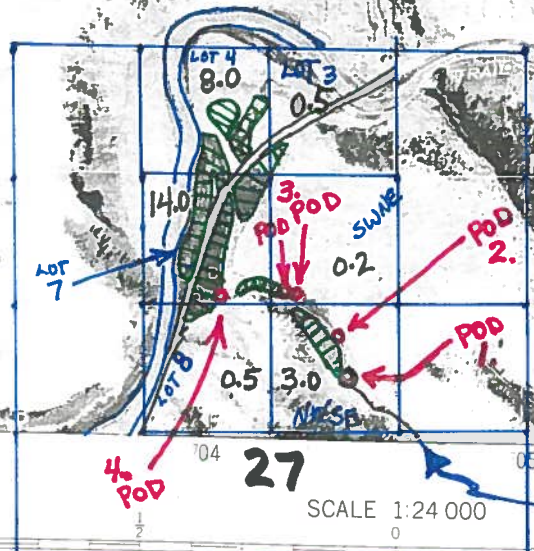
As RECOMMENDED

21
T11N, R17E, Sec. 27
POD LIST:
1. UPPER PAST. SENWSE
2. UPPER DITCH NE NWSE
3. Hot Spg. Pool & LOWER DITCH SWSWNE (2 Pts.)
4. CORRAL PAST. Div. SESE, NW
LOT 7

22

23

26.2 ACRES
IRRIGATED



MICROFILMED
NOV 01 1994

28

27

26

SCALE 1:24 000

SULLIVAN CREEK



NORTH

LAST: ~~SULLIVAN~~
ADDRESS: ~~CLAYTON~~
CITY: ~~CLAYTON~~
PHONE NUMBER: 208-000-0000
OWNER CODE: 0

FIRST: SAKAH H.
STATE: ID ZIP: X

LAST: HARDING
ADDRESS: BOX 5067
CITY: KETCHUM
PHONE NUMBER: 208-726-3039

FIRST: KATHLEEN D.
STATE: ID ZIP: 83340

OWNER CODE: C

LAST: SHANNON
ADDRESS: BOX 5067
CITY: KETCHUM
PHONE NUMBER: 208-726-3039

FIRST: ANNE
STATE: ID ZIP: 83340

OWNER CODE: C

FIELD EXAM REQUIRED?
VERIFICATION REQUIRED DUE TO REMARKS?

FIELD EXAMINER
DATABASE
Y

CLAIM REMARKS: AC. TRR=11.3.
SOURCES FOR THIS RT. ARE SULLIVAN HOT SPRINGS & SULLIVAN CK.
ORIGINAL LICENSED PRIORITY WAS 11/20/1920. ACTUAL PRIORITY
DATES BACK TO 04/02/1889.

MICROFILMED
NOV 01 1994

CONTACT PERSON: _____
 DATE OF FIELD EXAM: ____ / ____ / ____
 ACCOMPANIED BY: _____
 RELATIONSHIP TO CLAIMANT: _____

PHONE NUMBER: (____) _____
 TIME: ____ A (____) P (____)
 PHONE NUMBER: (____) _____

MICROFILMED
 NOV 01 1994

DIRECTIONS TO PROPERTY / REMARKS:

5-25-93 Viewed pos from Hwy and located some of the Ditch used.
 Gate was locked, no one was around. I drove from Ketchikan so I
 will call for scheduled appt.

6/8/93 10:55 am Left message on machine @ 726-3039

Regulated Field Exam @ Sullivan Hot Springs

6-11-94 met w/ Glen Harding
 and we walked the place from
 end to end. Mr. Harding showed
 me all the POD's used & walked
 all the ditches used to deliver water.
 Confirmed that irrigation from
 Sullivan Creek was ongoing and
 system appears limited only by
 the flow in the Creek at this exam.
 Ditches in place for land not currently
 irrigated. I asked for "some proof" of
 these uses in the past and he said
 he will supply it.

Call back
 for 11/11/93
 9 AM
 Appt. to
 Signed

your meeting w/ him on Monday

Message wanted to confirm

Telephoned	☒	Wants to see you	☐
Please call	☐	Will call again	☐
Returned your call	☐		☐

Phone AREA CODE NUMBER EXTENSION
 858-2332

of Clayton
 Glenn Harding

WHILE YOU WERE OUT

To Date 6-10-93 Time 8:45 P.M.
 A.M.

A. AJ CLAIM: # A72-02061

PRIORITY DATE: 04-02-1989

STAGE: L

B. WR RECORD: # 72-02061

PRIORITY DATE: 11-06-1920

STAGE: L

C. FIELD EXAM REQUIRED?

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

Y

FIELD EXAMINER

ARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? IF YES EXPLAIN. (X) ()

REMARKS:

Based on licensed priority as claimed basis of right
also 11-6-1920.

Mr. Harding and I discussed the earlier priority and I supplied him with a copy of priority brochure at the exam. I explained he must provide evidence of the earlier use (and additional investigation was) then I could verify at this time by license, maps & plans.

RECOMMENDED PRIORITY DATE:

11-6-1920

REVIEWED BY

Sen

DATE

5-19-94

MICROFILMED

NOV 01 1994

H. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A72-02061	11N	17E	27		NE	SE		CUSTER
A72-02061	11N	17E	27		NE	SE		CUSTER

OTHER AJ CLAIMS WITH SAME AJ POD
 A PREFIX R PREFIX
 NONE NONE

SOURCE: SULLIVAN HOT SPRINGS
 SULLIVAN CREEK

WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
72-02061	11N	17E	27		NE	SE		CUSTER
72-02061	11N	17E	27		NE	SE		CUSTER

OTHER WR RECORDS WITH SAME WR POD
 AJ CLAIMS IN SAME 40 ACRE TRACT
 A PREFIX R PREFIX
 NONE NONE

SOURCE: SULLIVAN HOT SPRINGS
 SULLIVAN CREEK

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY? (Y/N)
 DUE TO SOURCE DISCREPANCY? (Y/N)

DATABASE Y
 FIELD EXAMINER *Y*

*entire file and
 for notes based on
 these maps also.*

MARKS:

Confirmed POD & Sources by Gpm and the Map as listed below.

MAP & No.

DATE:

Copy in File

OPQ 473 dated: 7-24-74

BLM Aerial #5-4B-5 7-1-88

SOILS MAP MAP #241-44A 9-2-84

Govt Lot MAP T11N R17E

ASCS MAP 16037-178, 87L U20 c.1978

Field Sketch by SC 6-15-1993

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NOV 01 1994

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:
TWP. RGE. SEC. 1/4 1/4 1/4 LOT COUNTY

SOURCE: SULLIVAN HOT SPRINGS TRIB: SALMON RIVER

REVIEWED BY: DATE:

SULLIVAN Creek (pods) T11N R17E Section 27

- #1 upper pasture: SENWSE
- #2 upper ditch: NE NW SE
- #3 lower ditch: SW SW NE
- #4 CORRAL PASTURES: SE SE NW (Lot 7)

SULLIVAN Hot Springs (Pod) (Source is tributary to Sullivan Creek.)
* Same as #3 above

SW SW NE

(2 pts in this tract)

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NOV 01 1994

See
5-20-94

A. ROOT WATER RIGHT NUMBERS: A72-02061

B. FOU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM- ACRES		
11N	17E	27	NO	NE	3	HARDING, KATHLEEN D.	A72-02061	720.0	72-02061	720.0	0.5	.5	
11N	17E	27	SW	NE	4	HARDING, KATHLEEN D.	A72-02061	740.0	72-02061	740.0	0.2	.2	
11N	17E	27	NE	NO	4	HARDING, KATHLEEN D.	A72-02061	724.0	72-02061	724.0	8.0	8	
11N	17E	27	SE	NO	7	HARDING, KATHLEEN D.	A72-02061	725.0	72-02061	725.0	14.0	14	
11N	17E	27	SE	NO		HARDING, KATHLEEN D.	A72-02061	725.0	72-02061	725.0	—	—	
11E	27	NO	SE			HARDING, KATHLEEN D.	A72-02061	720.0	72-02061	720.0	9.0	3.0	3
TOTAL ACRES						A72-02061	111.00	136.00		17.00			

ARE IRRIGATED ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, Y(X) N()

IF YES SEE ATTACHED SHEET:

C. FIELD EXAM REQUIRED?

DUE TO FOU DISCREPANCY? (Y/N)

DATABASE

FIELD EXAMINER

POU COUNTY: CUSTER

NESW 4.8

0.5

.5

26.2

26.2

PRESUMPTION FLAG:

REMARKS:

Confirmed these acres irrigated by POU, Ben Alvin & Field Exam & HCS map. Actual POU irrigated has not changed, as shown by information used in review, over the years. Monitored water and field irrigation requirements are a very close match and support the irrigation listed above. SW 520-94

RECOMMENDATIONS:

TOTAL ACRES:

26.2

REVIEWED BY:

SW

DATE:

5-20-94

MICROFILMED

NOV 01 1994

Domestic Use:

SWNE

A. AS CLAIMED USES:

PURPOSES
A72-02061 IRRIGATION
072-02061 DOMESTIC
~~072-02061 DOMESTIC~~

MONTH/DAY
FROM 04-15 TO 10-15
FROM 01-01 TO 12-31
FROM 01-01 TO 12-31

DIVERSION QUANTITY
2.240 CFS
0.040 CFS
0.030 CFS

TOTAL DIVERSION RATE/VOLUME CLAIMED

2.240 CFS

B. WR RECORDED USES:

PURPOSES
72-02061 IRRIGATION
72-02061 DOMESTIC

MONTH/DAY
FROM 10
FROM 10

DIVERSION QUANTITY
2.240 CFS
2.240 CFS

TOTAL DIVERSION RATE/VOLUME CLAIMED

2.240 CFS

PRESUMPTION FLAG:

C. FIELD EXAM REQUIRED?

	(Y/N)	DATABASE	FIELD EXAMINER
DUE TO WATER-USE DISCREPANCY?	Y		
DUE TO DIVERSION RATE DISCREPANCY?	Y		
DUE TO PERIOD FROM/TO DISCREPANCY?	Y		

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?
RECOMMEND TO WR STANDARDS OR OTHER?

Y() N(X)
Y(X) N()

Explain in remarks, below.

REMARKS:

Stockwater use is incidental to irrigation, most pastures have access to irrigation flows also.

Domestic use found: Both house & hot springs

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NOV 01 1994

Y(☒) N(☐)

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

AJ TOTAL CLAIMED DIVERSION RATE: 2.240 CFS
 WR ROOT RIGHT TOTAL DIVERSION RATE: 2.240 CFS

*** IF NO or IF STATUTORY CLAIM or BENEFICIAL USE then flow measurement required. ***
 ** If an amount smaller than the original diversion rate is **
 ** claimed and an exam is NOT required, explain in remarks. **

FLOW MEASUREMENT REQUIRED?

DUE TO STAGE OR DIVERSION RATE DISCREPANCY? (Y/N)

FIELD DATABASE EXAMINER
 Y

MEASUREMENT METHOD Current Meter FLOW MEASUREMENT SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED? Y(☐) N(☒) IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: NONE

NO CLAIMS FOUND WITH SAME POU AND IRRIGATION USAGE

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

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NOV 01 1994

D. RATE/VOLUME CALCULATIONS: (IRRIGATION)

13. IRRIGATION RATE $\times 0.02$ CFS/ACRE = 0.524 CFS
ACRES 26.2 (Taken from p/u review)

DOES AMOUNT CLAIMED EXCEED 0.02 CFS/ACRE? Y(☒) N(☐)

*** IF YES ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y(☒) N(☐) ***

Hubble Analysis:

(see attached sheets & review)

2. IRRIGATION CONSUMPTIVE USE
CLAIMED CONSUMPTIVE USE = 280.0 AE/A
ACRES 26.2 $\times$ CONSUMPTIVE VOL. AE/A FOR AREA 2.5 =

WBS 8.5 Acres $\times$ 0.04 cfs/Ac = 0.34

Plus Convergence Loss = 0.04
0.38 cfs

(For upper ditch pasture & siphon pastures)

3. IRRIGATION DIVERSION VOLUME
CLAIMED DIVERSION VOLUME = AE/A
ACRES N/A $\times$ DIVERSION VOL. AE/A FOR AREA AE/A
TOTAL DIVERSION VOLUME N/A AE/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:
SEE ATTACHED SHEET? Y(☐) N(☐)

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.) BK1 soil 17.7 Ac $\times$ 0.049 cfs/Ac = 0.87 cfs

in Total = 1.25 cfs
Q

Domestic @ pool = 0.04

MICROFILMED
NOV 01 1994 + .04

1.29 cfs

RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD FROM TO	REC. RATE CFS	REC. DIV	REC. VOL.	REC. DIV	REC. CONS. USE
IRRIGATION	4-15 10-13	1.25	N/A			65.5
Domestic	1-1 12-31	.04				De Min
		1.29				65.5

TOTAL FOR THIS RIGHT

REVIEWED BY: SW DATE: 5-20-94

Dps = .04

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A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FOREIGN/ABANDON
ADDITIONAL DIV. AMOUNT

ACCEPTED
AS CLAIMED
()
()
()
NEEDS
REVIEW
()
()
()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 72-02061

TOTAL DIVERSION RATE OF WR SPLITS

DATABASE
2.240

EXAMINER

CFS

SPLITS:

OLD RIGHT
NUMBERS

CURRENT
CLAIM NUMBERS

DIVERSION
RATE

CURRENT "R"
CLAIM NUM.

"R" DIV.
RATE

WR RIGHT
NUMBERS

DIVERSION
RATE

- A72-02061

2.240

-

72-02061

2.240

TOTAL CFS

2.240

2.240

DIVERSION RATE REVIEW

DO THE SUM CFS RATE OF THE SPLITS EQUAL THE ROOT RIGHT CFS RATE? (Y/N)
IF NO, is the written review sheet attached? (Y/N)

DATABASE
Y

FIELD
EXAMINER

REMARKS:

None

AUTHENTICATION:

SIGNATURE:

Steve Dore

DATE:

5-20-94

NAME OF FIELD EXAMINER:

TITLE:

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WR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE	Y		5-25-93 SC	Y	G. Lic.	SC 5-20-94	SC 5-20-94	SC 5-20-94
POINT OF DIV	Y		6-14-93 6-15-93 SC	Y	12456			
SOURCE				N				
PLACE OF USE	Y			Y	12456			
DIV. AMOUNT CFS/VOLUME	Y			Y	G. HA			
CONSUMPTIVE USE	-			Y	6			
PURPOSES	Y			Y	5'6			
PERIOD OF USE	Y			Y	6. Stds			
BASIS OF CLAIM	Y			N	6.			
REMARKS	Y			Y				

VERIFIED BY CODES

TOPO MAP/ORTHO-PG = 1
 ASCS MAP = 2
 WATERMASTER RECORDS = 3
 NAPP PHOTOS = 4
 FIELD EXAM = 5
 OTHER (SEE REMARKS) = 6

SC
2-2-93

THESE CODES ARE USED TO INDICATE HOW THE FIELD EXAMINER VERIFIED THE INFORMATION
USED FOR THIS FIELD EXAMINATION. INDICATED ARE ALL CODES WHICH APPLY.

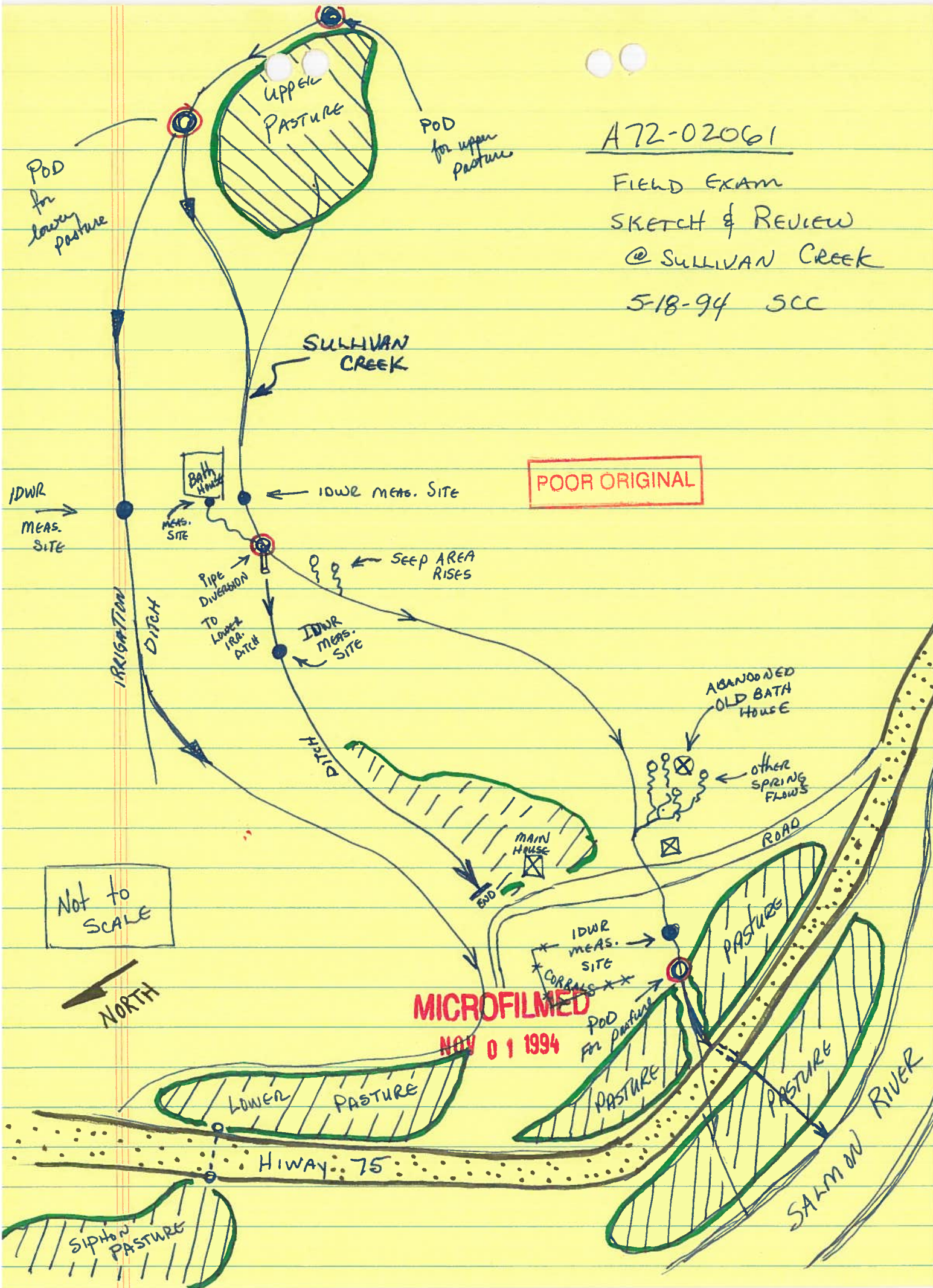
MICROFILMED
MAY 01 1994

MICROFILMED
NOV 01 1994

See
5-20-94

A72-02061

FIELD EXAM
SKETCH & REVIEW
@ SULLIVAN CREEK
5-18-94 SCC



T
||
N

RITE

CLAIM A72-2061 INIT
T. R. S. Q/Q
P/D
PHOTO U73
DT.&ID. 7-24-74

REVIEW MAP

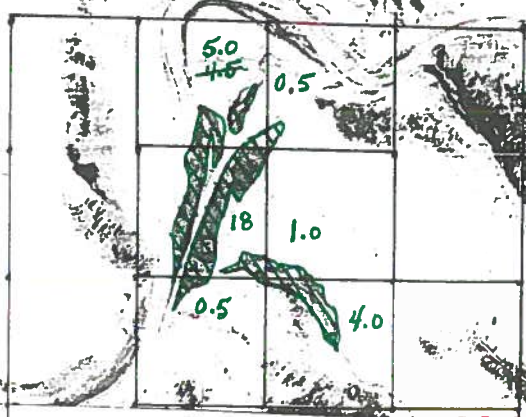
POOR ORIGIN

21

22

23

OPA and BLM aerial
Match up POA as for
during field exam
on 6-14-93.
* this map represents
the POA as found
irrigated



28 27' 30"
EST. ACRES = 29.0
~~28.5~~

27

MICROFILMED
NOV 01 1984

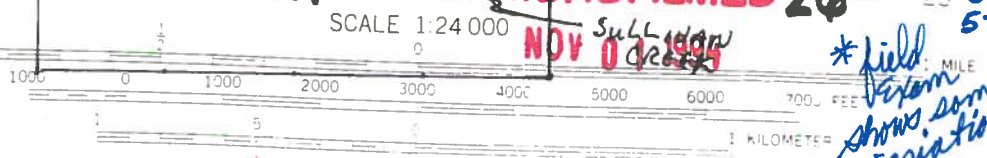
26

25

LANDS IRRIGATED
IN AERIAL PHOTO

BLM 24 1D-88AC 5-4B-5 7-1-88

* field
exam
shows some
variation



T
||
N

R 17E

POOR ORIGINAL

CLAIM A72-2061 INIT
T. R. S. Q/Q
P/D
PHOTO U73
DT.&ID. 7-24-74

21

22

23

RIVER

28

24

2

25

40

20

POD

28

SALMON RIVER

27

SULLIVAN HOT SPRINGS

SCALE 1:24 000

SULLIVAN CREEK

26

MICROFILMED

<see claim map in file also>

Pou AS CLAIMED

A72-2061

C. 1978

4-20

871

16037-178

ASCS MAP

Sullivan
Creek

POOR ORIGINAL

Upper
pasture
Pou

Sullivan
Hot
House
spasms

Lower
pasture
Pou

Siphon
pasture
Pou

Grand Island

2122
2827

POOR ORIGINAL

Sullivan
swamp
Hill
poor

Sullivan
creek

CLAIM A72-2061 INTT Sec
T. R. S. Q/Q
P/D BLM Aerial 45-4B-5
PHOTO DT. & ID. 7-1-88 U73(SW)

Planimeter
meas. of
Acres

1" = 1000'

Set @ st. Arm
.2227

-2061

PLANIMETER NOTES

5-19-94

SCC

Lower pasture: 4.2
5.1
4.4 $\bar{x} = 4.3$
4.0
4.0

Siphon Pasture

4.2
4.7
3.6 $\bar{x} = 4.1$
4.0

River Pasture 6.5
6.0
6.2

$\bar{x} = 6.2$

Coral Past.

5.3
5.6 $\bar{x} = 5.6$
5.8

POOR ORIGINAL

Lower Ditch
past.

1.1
1.3 $\bar{x} = 1.2$
1.3

Upper Past.

2.9
2.9 $\bar{x} = 2.9$
2.9

(WBB
SOILS)
8.5 Ac
Rec'd

MEAS.
 $\bar{x} = 13.0$ Ac.

Rec'd
14.5 Ac

Rec'd
3.0

MEAS. PLANIM. TOTAL = 24.3 Ac.

26.0

MICROFILMED

NOV 01 1994

TOTAL
ACRES
AS
Recomm.

A72-2061

PLANIMETER CALC.

22

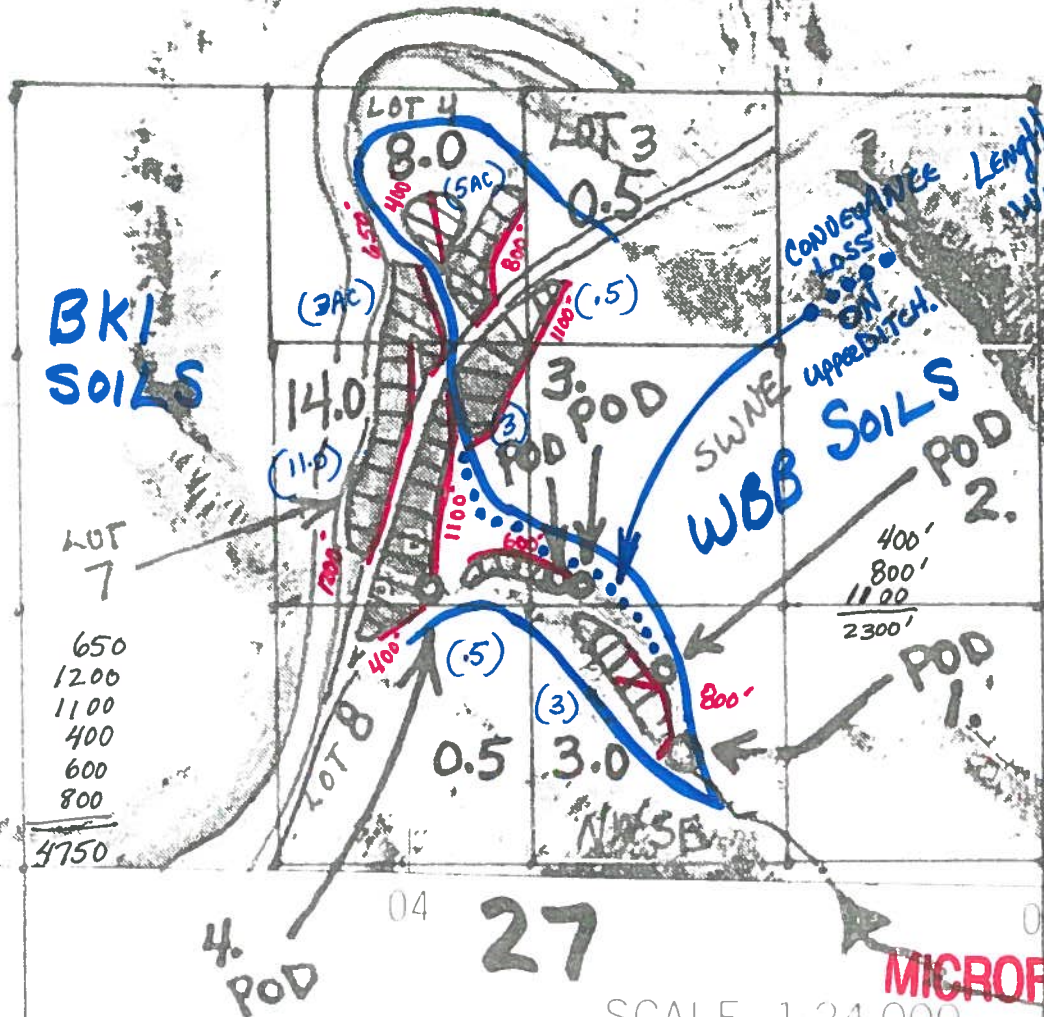
POOR ORIGINAL

Approx. Scale
1" = 1000'

Length = 1800'
Width = 1.75'
C value = 1.0
(SHETLAND)
BKI

BKI
SOILS

SWALE
WBB SOILS



MICROFILMED

NOV 01 1994

SULLIVAN
CREEK

BKI SOIL

$$3 + 11 + .5 + 3 = 17.5 \text{ AC}$$

TOTAL WIDTHS = 4750'

$$\bar{X} \text{ Awn} = 160'$$

WBB SOIL

$$5 + .5 + 3 = 8.5 \text{ AC}$$

TOTAL WIDTHS = 2300'

$$\bar{X} \text{ Awn} = 161'$$

HUBBLE ANALYSIS REVIEW

A72-2061

GRADED BORDER EVALUATION

Job name: A72-02061
By: SCC

Location: BK1 SOIL 17.5 AC PAST
Date: May 20, 1994

Roughness coefficient (n)= 0.250 Intake family (If)=2.00
Slope (S)= 0.0200 ft/ft Border width (W)= 113 ft
Net application (Fn)= 3.06 inches Border length (L)= 160 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Notes
0.80	Gross depth is less than required gross application depth					
0.81	Gross depth is less than required gross application depth					
0.82	Gross depth is less than required gross application depth					
0.83	Gross depth is less than required gross application depth					
0.84	Gross depth is less than required gross application depth					
0.85	Gross depth is less than required gross application depth					
0.86	0.008	16.44	13.23	0.15	18.6	
0.87	0.008	16.63	13.23	0.34	18.4	
0.88	0.008	16.82	13.23	0.53	18.2	
0.89	0.008	17.01	13.23	0.72	18.0	

$$\frac{0.86 \text{ cfs}}{17.5 \text{ Ac}} = 0.049 \frac{\text{cfs}}{\text{Ac.}}$$

MICROFILMED

NOV 01 1994

CLAIM NO. --- A72-02061
 AGENT ----- SCC
 DATE ----- 05/20/94

Lotus Program:
 IRR-PRAC.WK3
 Date form revised:
 4/21/93 by KKC

 SOIL CHARACTERISTICS

Soil Type = BK1; BOCK...SILT LOAM, LOAM, GRAVELLY LOAM, FINE SANDY
 Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	18	0.14	0.2	6.6	8.4	1	3	1	2.04	2	0.55
18	48	0.14	0.2	7.4	8.4			1	2.21		
48	60	0.03	0.05	7.4	8.4			3	6.12		
								4	8.16	alternate	
								5	8.64	method	
										NA	NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD	FIELD NOTES AND CALCULATIONS			
				FIELD 1	FIELD 2	FIELD 3	FIELD 4
alfalfa (hay or seed)	5	0.5	4.32	FIELD WIDTH 4750	0		
corn (field or silage)	4	0.5	4.08	IRRIGATION DAYS 14			
grain (winter or spring)	4	0.5	4.08	DRY DAYS 0			
pasture (or grass hay)	3	0.5	3.06	SET TIME(hours) 8			
other (enter below)				CALCULATED RUN (run = acres*43560/width)			
				LENGTH (RUN) = 160			
				CALCULATED BORDER WIDTH (ditch length/irr days * cha			
				WIDTH = 113			
				THEORETICAL ROTATION (mad/net irr req in inches per			
				SELECTED MAD = 3.06			
				ROTATION = 13.3 DAYS			

 PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
 Figure No = 10-15

crop	acres	system	Net Irrigation Requirement (mm/day)							
			recomm. eff.	mar	apr	may	jun	jul	aug	sep
PASTURE	17.5	FLOOD			1.47	3.84	4.87	5.86	4.56	3.23
ALFALFA		FLOOD	26.4		1.28	4.51	5.65	6.25	4.45	2.52

Summary 17.5 1.47 3.84 4.87 5.86 4.56 3.23 2.07
 Peak Net Irrigation Requirement (mm/day) = 5.86

Program Operation based upon

"GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES"

HUBBLE ENGINEERING INC. OCTOBER 1991

Soil Characteristics based upon

SOIL CONSERVATION SERVICE STUDIES

Peak Irrigation Diversion based upon ALLEN & BROCKWAY WEATHER INFORMATION 1983

MICROFILMED
 NOV 01 1994

GRADED BORDER EVALUATION

Job name: A72-02061
By: SCC

Location: WBB SOIL 8.5 AC PAST.
Date: May 20, 1994

Roughness coefficient (n)= 0.250 Intake family (If)=1.50
Slope (S)= 0.0200 ft/ft Border width (W)= 55 ft
Net application (Fn)= 1.01 inches Border length (L)= 161 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Notes
0.30	Gross depth is less than required gross application depth					
0.31	Gross depth is less than required gross application depth					
0.32	Gross depth is less than required gross application depth					
0.33	Gross depth is less than required gross application depth					
0.34	0.006	13.27	11.91	0.35	7.6	
0.35	0.006	13.66	11.91	0.74	7.4	
0.36	0.007	14.05	11.91	1.13	7.2	
0.37	0.007	14.44	11.91	1.52	7.0	
0.38	0.007	14.83	11.91	1.91	6.8	
0.39	0.007	15.22	11.91	2.30	6.6	

$$\frac{0.34 \text{ cfs}}{8.5 \text{ Ac}} = 0.04 \text{ cfs/Ac}$$

MICROFILMED
NOV 01 1994

CLAIM NO. --- A72-02061
 AGENT ----- SCC
 DATE ----- 05/20/94

Lotus Program:
 IRR-PRAC.WK3
 Date form revised:
 4/21/93 by KKC

 SOIL CHARACTERISTICS

Soil Type = WBB; WHITEKNOB... GRAVELLY LOAM
 Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	4	0.11	0.14	7.4	9	1	2	1	1.07	1.5	0.5
4	11	0.05	0.1	7.4	9			1	1.11		
11	60	0.03	0.05	7.4	9			3	2.02		
								4	2.50	alternate	
								5	2.98	method	
										NA	NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD	FIELD NOTES AND CALCULATIONS				
				FIELD 1	FIELD 2	FIELD 3	FIELD 4	
				FIELD WIDTH	2300	0		
				IRRIGATION DAYS	14			
				DRY DAYS	0			
				SET TIME(hours)	8			
				CALCULATED RUN (run = acres*43560/width)				
				RUN =	161			
				CALCULATED BORDER WIDTH (ditch length/irr days * cha				
				WIDTH =	55			
				THEORETICAL ROTATION (mad/net irr req in inches per				
				SELECTED MAD =	1.01			
				ROTATION =	4.4 DAYS			

 PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
 Figure No = 10-15

crop	acres	system	recomm. eff.	Net Irrigation Requirement (mm/day)							
				mar	apr	may	jun	jul	aug	sep	oct
PASTURE	8.5	FLOOD	12.7		1.47	3.84	4.87	5.86	4.56	3.23	2.07
ALFALFA		FLOOD	12.7		1.28	4.51	5.65	6.25	4.45	2.52	0.7

Summary 8.5 13 1.47 3.84 4.87 5.86 4.56 3.23 2.07
 Peak Net Irrigation Requirement (mm/day) = 5.86

*Rotation Based on other soil review needs and claimant
 does not live on the site to change the water regularly.*

 Program Operation based upon "GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES"
 HUBBLE ENGINEERING INC. OCTOBER 1991
 Soil Characteristics based upon SOIL CONSERVATION SERVICE STUDIES
 Peak Irrigation Diversion based upon ALLEN & BROCKWAY WEATHER INFORMATION 1983

MICROFILMED
NOV 01 1994

CONVEYANCE LOSS - WORSTELL

AGENT -----SCC
 DATE -----20-May-94
 CONVEYANCE OR
 SOURCE NAME -----SULLIVAN CREEK
 RELATED CLAIMS -A72-02061

*C Value 6 1.0
 Based on Soil type BK1, a silty loam*

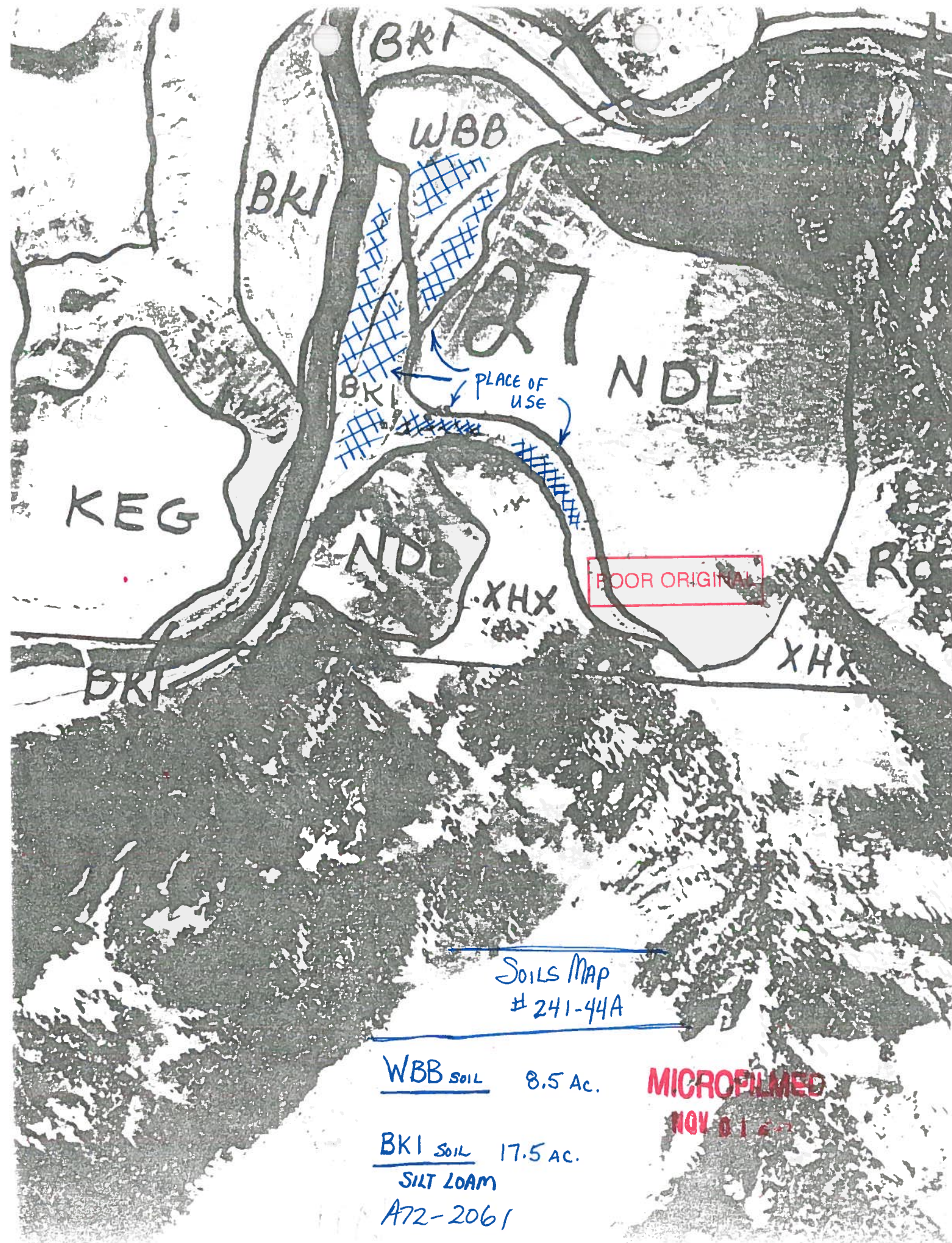
REACH	LENGTH (FT)	AVE WIDTH (FT)	<i>C Value</i> SEEPAGE (FT/DAY)	WORSTELL LOSS (CFS)	DELIVERY (CFS)	DELIVERY LEFT (CFS)	LOSS FACTOR	DELIVERY LOSS (CFS)	FLOW (CFS)
1	1800	1.8	1.00	0.04	0.34	0.34	0.1170	0.04	0.38
2				0.00		0.00	0.0000	0.00	0.00
3				0.00		0.00	0.0000	0.00	0.00
4				0.00		0.00	0.0000	0.00	0.00
5				0.00		0.00	0.0000	0.00	0.00
6				0.00		0.00	0.0000	0.00	0.00
7				0.00		0.00	0.0000	0.00	0.00
8				0.00		0.00	0.0000	0.00	0.00
9				0.00		0.00	0.0000	0.00	0.00
10				0.00		0.00	0.0000	0.00	0.00
11				0.00		0.00	0.0000	0.00	0.00
12				0.00		0.00	0.0000	0.00	0.00
13				0.00		0.00	0.0000	0.00	0.00
14				0.00		0.00	0.0000	0.00	0.00
15				0.00		0.00	0.0000	0.00	0.00
16				0.00		0.00	0.0000	0.00	0.00
17				0.00		0.00	0.0000	0.00	0.00
18				0.00		0.00	0.0000	0.00	0.00
19				0.00		0.00	0.0000	0.00	0.00
20				0.00		0.00	0.0000	0.00	0.00
TOTALS	1800			0.04	0.34			0.04	0.38

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 REACH

MICROFILMED
 0.04 0.1 1994

SEEPAGE = SOIL SEEPAGE RATE OF REACH
WORSTELL LOSS = CONVEYANCE LOSS IN REACH BASED ON WORSTELL METHOD
DELIVERY = TOTAL DELIVERIES IN REACH
DELIVERY LEFT = SUM(DELIVERIES OF CURRENT AND REMAINING REACHES)
LOSS FACTOR = WORSTELL LOSS/DELIVERY LEFT
DELIVERY LOSS = SUM(LOSS FACTORS OF CURRENT AND PREVIOUS REACHES) X DELIVERY,
REPRESENTS THE LOSSES ASSIGNED TO THE DELIVERIES IN THE REACH

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NOV 01 1994



Water Right No.
(if applicable)

A. GENERAL INFORMATION

- GENERAL INFORMATION
1. Name of stream or ditch: SULLIVAN Hot Spring
2. Location: OUTLET OF BATH House pool
3. Person conducting measurement: STEVE CHELLAND
4. Date and time of measurement: 6-15-93 9:20 am
5. Accompanied by: N/A
6. Measuring device size and ID no.: Pygmy #090188
7. Spin test before measurement OK? OK after measurement OK? _____
8. Purpose of measurement: A72-2061

B. MEASUREMENT DATA

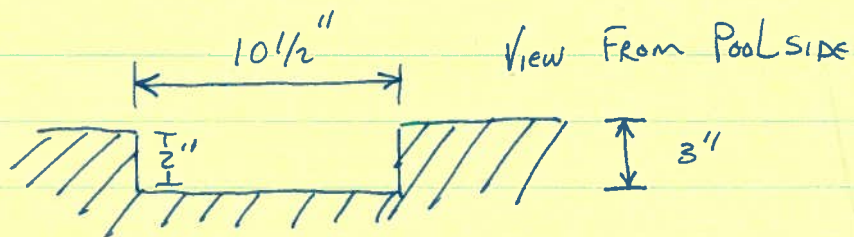
Angle co-efficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY		Adjusted for hor. angle or	Area	Discharge
							At point	Mean in vertical			
	UPSTREAM INSIDE	10 1/2"	1 3/4"		24	62	.39			.132	0.05
		(.88)'	(.15)'								
	DOWN STREAM OUTSIDE	10 1/2"	1 3/4"		64	64	1.0			.132	.132
	(will show higher flow due to increased velocity from head drop.)										
	See printout of flow calculations										
	MICROFILMED NOV 01 1994										

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NOV 01 1994

6-15-93
SW

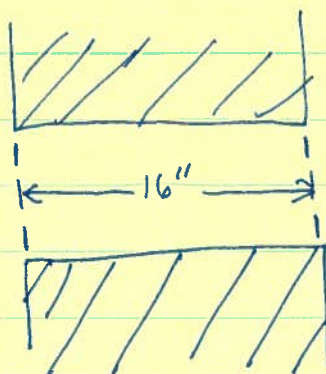
SULLIVAN Hot Spring @ Pool Outlet

outlet;



WATER DEPTH
AT 1 3/4"

@ 9:20 Am



MICROFILMED

NOV 01 1994

NAME OF STREAM OR DITCH SULLIVAN HOT SPRING
 LOCATION ----- POOL OUTLET
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER ----- 1
 IF YOU ARE USING A AA METER ENTER ----- 2
 ENTRY ----- = 1

WATER RIGHT NUMBER IF APPLICABLE ----- A72-02061
 AGENT CONDUCTING MEASUREMENT & DATE -- SCC 6-15-93
 ACCOMPANIED BY ----- N/A
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---
 POST MEASUREMENT SPIN TEST (MIN/SEC) -
 DATE REPORT PREPARED ---- 19-May-94

FOLLOWING THE LAST ENTRY IN:
 "DISTANCE FROM INIT PT" ENTRY MUST = "END"

INITIAL POINT	ANGLE OF COEFFICIENT		DISTANCE FROM INIT PT		DEPTH IN FEET		CALC DEPTH END PTS		1ST MEASUREMENT REVS		VELOCITY DATA 2ND MEASUREMENT		CALC WIDTH		AREA IN SQ FT		1ST POINT VELOCITY		CALCULATED VELOCITY 2ND POINT		MEAN VELOCITY		DISCHARGE IN CFS	
	OF		FROM		IN		DEPTH		TIME/SEC		TIME/SEC		WIDTH		SQ FT		VELOCITY		VELOCITY		VELOCITY		IN CFS	
	0.00				0.15		0.08		24		62.0		0.22		0.017		0.39		0.19		0.19		0.00	
	0.44												0.44		0.066				0.39		0.39		0.03	
	0.88						0.08						0.22		0.017				0.19		0.19		0.00	
END																							0.03	

area is known to be 0.132 sq ft

See 2nd meas. Review sheet

#1 upstream inside

MICROFILMED
 NOV 01 1994

NAME OF STREAM OR DITCH SULLIVAN HOT SPRING
 LOCATION ----- POOL OUTLET
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER ----- 1
 IF YOU ARE USING A AA METER ENTER ----- 2
 ENTRY ----- = 1

WATER RIGHT NUMBER IF APPLICABLE ----- A72-02061
 AGENT CONDUCTING MEASUREMENT & DATE -- SCC 6-15-93
 ACCOMPANIED BY ----- N/A
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---
 POST MEASUREMENT SPIN TEST (MIN/SEC) -
 DATE REPORT PREPARED ---- 19-May-94

FOLLOWING THE LAST ENTRY IN:
 "DISTANCE FROM INIT PT" ENTRY MUST = "END"

INITIAL POINT	ANGLE OF COEFFICIENT		DISTANCE FROM INIT PT		DEPTH IN FEET		CALC DEPTH END PTS		1ST MEASUREMENT REVS		2ND MEASUREMENT TIME/SEC		CALC WIDTH		AREA IN SQ FT		1ST POINT VELOCITY		2ND POINT VELOCITY		MEAN VELOCITY		DISCHARGE IN CFS	
	INITIAL	POINT	FROM	PT	IN	FEET	END	PTS	REVS	TIME/SEC	TIME/SEC	TIME/SEC	WIDTH	IN	AREA	IN	VELOCITY	VELOCITY	VELOCITY	VELOCITY	MEAN	VELOCITY	IN	CFS
	0.00				0.15		0.08		64		64.0		0.22	0.017			1.00				0.50		0.01	
	0.44												0.44	0.066							1.00		0.07	
	0.88												0.22	0.017							0.50		0.01	
END																								

*area is known
 To be 0.132 sqft*

average velocity of the two measurements

$$\frac{1.39 \text{ fps} + 1.00 \text{ fps}}{2} = 0.695 (0.70)$$

$$0.70 \times 0.132 = \frac{0.09 \text{ cfs}}{(V) (A) = (Q)}$$

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 NOV 01 1994

*#2 Down Stream
 out side*

*5-20-94
 see*

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Water Right No.
(if applicable)

Open Channel Discharge Measurement Notes

LOWER DITCH
SITE

A. GENERAL INFORMATION

1. Name of stream or ditch: LOWER Ditch @ SULLIVAN CREEK
2. Location: 50' below diversion from Creek into lower Ditch
3. Person conducting measurement: STEVE CLELLAND
4. Date and time of measurement: 6-15-93 10:30 am
5. Accompanied by: N/A
6. Measuring device size and ID no.: Pygmy #090188
7. Spin test before measurement OK? OK after measurement OK? OK
8. Purpose of measurement: AJ CLAIM A72-2061

B. MEASUREMENT DATA

Angle co-efficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY		Adjusted for hor. angle or _____	Area	Discharge
							At point	Mean in vertical			
		one point measurement:									
		8 1/2" (.7)	3 1/2" (.3)	.5	40	66	0.61		=	0.21	0.13
See print out of flow Calc.											
MICROFILMED NOV 01 1994											

BATH House Site

10:05 Am 6-15-73

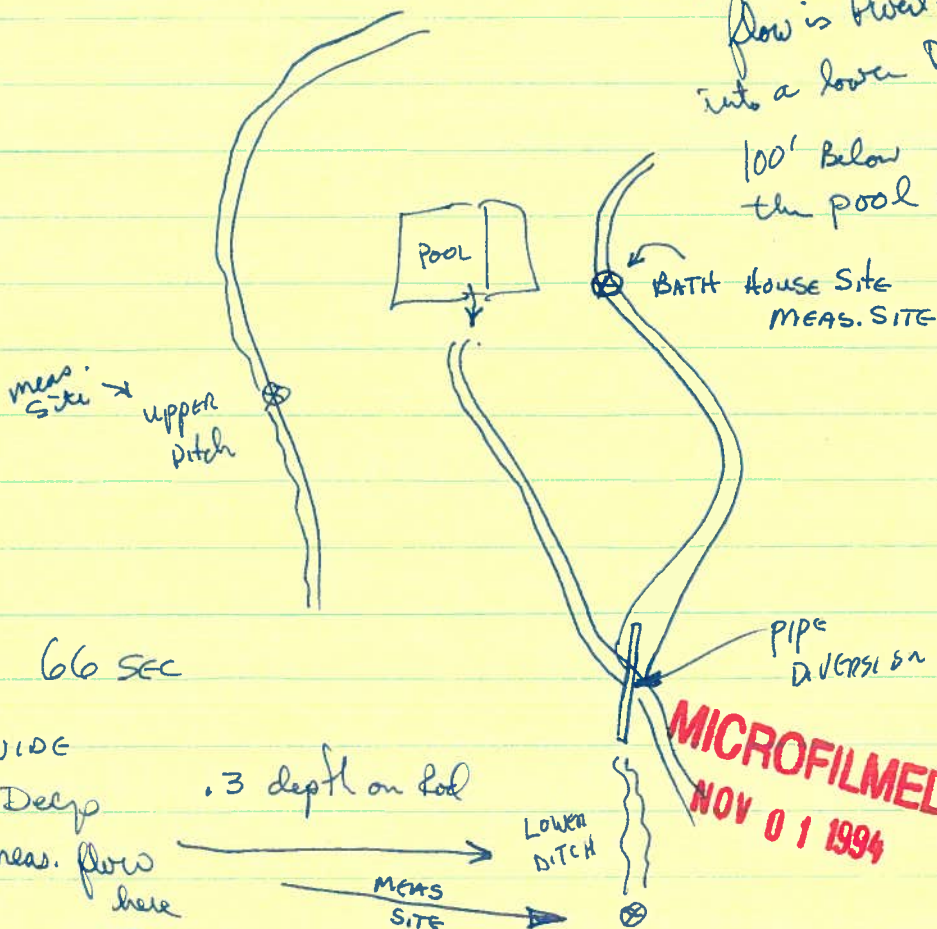
pygmy meas

Sullivan Creek @ ^{Hot} pool

	Depth	Obs	Rev	Sec
3' REW	.25	Ø	Ø	
3.5'	.4	.6	15	62
4.0'	.5	.4	21	61
4.5	5.5	.6	26	60
5.0	.5	.6	26	59
5.5	.4	.6	44	61
5.75 LEW	Ø		Ø	

POOR ORIGINAL

portion of this
flow is diverted
into a lower Ditch
100' Below
the pool house



Lower Ditch Site

40 REVS 66 SEC

8 1/2" WIDE
3 1/2" Deep

meas. flow
here

@ 10:30 Am

.3 depth on bed

LOWER
DITCH

MEAS
SITE

MICROFILMED
NOV 01 1994

NAME OF STREAM OR DITCH SULLIVAN CREEK
 LOCATION LOWER DITCH, 50 FT BELOW POD
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER 1
 IF YOU ARE USING A AA METER ENTER 2
 ENTRY 1
 FOLLOWING THE LAST ENTRY IN:
 "DISTANCE FROM INIT PT" ENTRY MUST = "END"

WATER RIGHT NUMBER IF APPLICABLE A72-02061
 AGENT CONDUCTING MEASUREMENT & DATE SCC 6-15-93
 ACCOMPANIED BY N/A
 PREMEASUREMENT SPIN TEST (MIN/SEC)
 POST MEASUREMENT SPIN TEST (MIN/SEC)
 DATE REPORT PREPARED 19-May-94

INITIAL POINT	ANGLE OF COEFFICIENT	DISTANCE FROM INIT PT	DEPTH IN FEET	CALC DEPTH END PTS	VELOCITY DATA		AREA IN SQ FT	CALCULATED VELOCITY		DISCHARGE IN CFS
					1ST MEASUREMENT REVS	2ND MEASUREMENT REVS		1ST POINT VELOCITY	2ND POINT VELOCITY	
		0.00	0.35	0.15	40	66.0	0.18	0.026	0.30	0.01
		0.35	0.30				0.35	0.105	0.61	0.06
		0.70		0.15			0.18	0.026	0.30	0.01
	END									0.08

0.157

known actual area is:
 0.21 sqft

$$0.21 \times 0.61 = 0.13$$

(A) (V) (Q)

however velocity is less on gages of the ditch flow than measured at point.

$$0.13 \text{ cfs} - 10\% = 0.117 \text{ cfs}$$

* estimate flow to be 0.11 - 0.12

5-20-94

MICROFILMED

NOV 01 1994

Water Right No.
(if applicable)

Upper Ditch
SITE

1. Name of stream or ditch: SULLIVAN CREEK

2. Location: UPPER IRRIG. DITCH NORTH OF THE BATH HOUSE POOL

3. Person conducting measurement: STAFF CLELLAND

4. Date and time of measurement: 6-15-93 ~~9-30~~ 9:35 AM

5. Accompanied by: NONE

6. Measuring device size and ID no.: Pygmy # 090188

7. Spin test before measurement OK? OK 50 sec. after measurement OK? OK 40 sec

8. Purpose of measurement: A72-02061

[illegible]

MICROFILMED
JUN 01 1984

```

NAME OF STREAM OR DITCH      SULLIVAN CREEK
LOCATION      -----
PURPOSE OF MEASUREMENT  -- ADJUDICATION REVIEW
BASIS OF VELOCITY CALCULATIONS
IF YOU ARE USING A PYGMY METER ----- 1
IF YOU ARE USING A AA METER ENTER ----- 2
ENTRY ----- = 1

```

FOLLOWING THE LAST ENTRY IN:
"DISTANCE FROM INIT PT" ENTRY MUST =
"END"

"DISTANCE FROM INIT PT" ENTRY MUST = "END"

[illegible]

0.40

adjusted based on
flows previous
70% of prev.
Station 5-20-94
50
no new change

MICROFILMED
NOV 01 1994

Water Right No.
(if applicable)

Bath House
SITE

1. Name of stream or ditch: SULLIVAN CREEK

2. Location: SW of Bath house @ Hot springs

3. Person conducting measurement: STEVE CLELLAND

4. Date and time of measurement: 10:05 Am 6-15-93

5. Accompanied by: N/A

6. Measuring device size and ID no.: Pygmy #090188

7. Spin test before measurement OK? OK after measurement OK? OK

8. Purpose of measurement: AS claim A72-2061

[illegible]

MICROFILMED
NOV 01 1994

NAME OF STREAM OR DITCH SULLIVAN CREEK
 LOCATION ----- SW OF BATH HOUSE
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER ----- 1
 IF YOU ARE USING A AA METER ENTER ----- 2
 ENTRY ----- = 1

WATER RIGHT NUMBER IF APPLICABLE ----- A72-02061
 AGENT CONDUCTING MEASUREMENT & DATE -- SCC 6-15-93
 ACCOMPANIED BY ----- N/A
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---
 POST MEASUREMENT SPIN TEST (MIN/SEC) -
 DATE REPORT PREPARED ----- 19-May-94

FOLLOWING THE LAST ENTRY IN:
 "DISTANCE FROM INIT PT" ENTRY MUST = "END"

INITIAL POINT	ANGLE OF COEFFICIENT	DISTANCE FROM INIT PT	DEPTH IN FEET	CALC DEPTH END PTS	1ST MEASUREMENT REVS	VELOCITY DATA		CALC WIDTH	AREA IN SQ FT	CALCULATED VELOCITY			DISCHARGE IN CFS
						2ND MEASUREMENT TIME/SEC	TIME/SEC			1ST POINT VELOCITY	2ND POINT VELOCITY	MEAN VELOCITY	
2.95			0.25	0.13	0			0.02	0.003				0.00
3.00			0.40		15			0.28	0.069				0.05
3.50			0.50		21			0.50	0.200				0.09
4.00			0.50		26			0.50	0.250				0.12
4.50			0.55		26			0.50	0.275				0.11
5.00			0.50		26			0.50	0.250				0.11
5.50			0.40		44			0.38	0.150				0.11
5.75			0.00		0			0.13	0.000				0.00
END					0								0.47

0.48 cfs

5-20-94
 adjusted for
 unreported flow
 based on 70% of
 previous section.
 See.

MICROFILMED
 MAY 01 1994

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Water Right No.
(if applicable)

Conal Site

1. Name of stream or ditch: SULLIVAN CREEK
2. Location: 100' below drive lane culvert; 200' above Ditch Diversion @ Conals
3. Person conducting measurement: STEVE CLELAND
4. Date and time of measurement: 6-15-93 10:45AM
5. Accompanied by: N/A
6. Measuring device size and ID no.: Pysmy #090188
7. Spin test before measurement OK? OK after measurement OK? OK
8. Purpose of measurement: AJ claim A72-2061

[illegible]

MICROFILMED
NOV 01 1994

6-15-93

CORRAL SITE

10:45 AM

Sullivan Creek

100' below Drive Lane Culvert

200' above Diversion Ditch for irrigation @ conals

REW		Depth ϕ	Obs ϕ	Revs ϕ	Sec <u> </u>
	1.5'				
	1.75'	.4	.6	60	55
	2'	.4	.6	80	43
	2.25	.4	.6	80	44
	2.5	.4	.6	80	44
	2.75	.35	.6	57	62
LEW	3.0'	ϕ	—	ϕ	—

MICROFILMED

NOV 01 1994

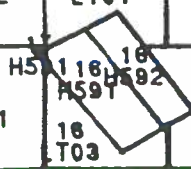
NAME OF STREAM OR DITCH SULLIVAN CREEK
LOCATION ----- ABOVE DITCH DIVERSION AT CORRALS, 200'
PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
BASIS OF VELOCITY CALCULATIONS
IF YOU ARE USING A PYGMY METER ENTER ----- 1
IF YOU ARE USING A AA METER ENTER ----- 2
ENTRY ---- = 1
FOLLOWING THE LAST ENTRY IN:
"DISTANCE FROM INIT PT" ENTRY MUST = "END"
WATER RIGHT NUMBER IF APPLICABLE ----- A72-02061
AGENT CONDUCTING MEASUREMENT & DATE --- SCC 6-15-93
ACCOMPANIED BY ----- N/A
PREMEASUREMENT SPIN TEST (MIN/SEC) ----
POST MEASUREMENT SPIN TEST (MIN/SEC) -
DATE REPORT PREPARED ----- 19-May-94

INITIAL POINT	ANGLE OF COEFFICIENT	DISTANCE FROM INIT PT	DEPTH IN FEET	CALC DEPTH END PTS	1ST MEASUREMENT		VELOCITY DATA		AREA IN SQ FT	CALCULATED VELOCITY		DISCHARGE IN CFS
					REVS	TIME/SEC	2ND MEASUREMENT	TIME/SEC		1ST POINT VELOCITY	2ND POINT MEAN VELOCITY	
		1.50										
		1.75	0.40	0.20	60	55.0			0.13	0.025	0.00	0.00
		2.00	0.40		80	43.0			0.25	0.100	1.09	0.11
		2.25	0.40		80	44.0			0.25	0.100	1.86	0.19
		2.50	0.40		80	44.0			0.25	0.100	1.82	0.18
		2.75	0.35		57	62.0			0.25	0.088	1.82	0.18
		3.00		0.18					0.13	0.022	0.92	0.08
											0.46	0.01
												0.75

END

MICROFILMED
NOV 01 1994

N	17 NENW	17 NWNE	17 NENE	18 LT01	18 NENW	18 NWNE	18 NENE	15 NWNW	15 NENW	15 NWNE	15 NENE	14 NWNW
N	17 SENW	17 SWNE	17 LT01	18 LT02	18 SWNE	18 SENE	15 SNNW	15 SENW	15 SWNE	15 SENE	14 SNNW	
W	17 NESW	17 NWSE	17 NESE	18 NWSW	18 NESW	18 NWSE	18 NESE	15 NWSW	15 NESW	15 NWSE	15 NESE	14 NWSW
W	17 SESW	17 SWSE	17 SESE	18 SWSW	18 SESW	18 SWSE	18 SESE	15 SWSW	15 SESW	15 SWSE	15 SESE	14 SWSW
W	20 NENW	20 NWNE	20 NENE	21 NWNW	21 NENW	21 NWNE	21 NENE	22 NWNW	22 NENW	22 NWNE	22 NENE	23 NWNW
W	20 SENW	20 SWNE	20 SENE	21 SNNW	21 SENW	21 SWNE	21 SENE	22 SNNW	22 SENW	22 SWNE	22 SENE	23 SNNW
W	20 NESW	20 NWSE	20 NESE	21 NWSW	21 NESW	21 NWSE	21 NESE	22 NWSW	22 NESW	22 NWSE	22 NESE	23 NWSW
W	20 SESW	20 SWSE	20 SESE	21 SWSW	21 SESW	21 SWSE	21 SESE	22 SWSW	22 LT03	22 LT02	22 LT01	23 LT04
4 9 07	29 LT03	29 LT02	29 LT01	28 LT01	28 NENW	28 NWNE	28 NENE	27 LT05	27 LT04	27 LT03	27 LT01	28 LT05
	29 LT08	29 LT09	29 LT10	28 LT02	28 LT03	28 SWNE	28 SENE	27 LT06	27 LT07	27 SWNE	27 SENE	28 SNNW
I	29 NESW	29 NWSE	29 NESE	28 NWSW	28 LT05	28 LT04	28 NESE	27 LT09	27 LT08	27 NWSE	27 NESE	28 NWSW
N	29 SESW	29 SWSE	29 SESE	28 SWSW	28 LT06	28 LT07	28 LT08	27 LT10	27 SESW	27 SWSE	27 SESE	28 SWSW
N	32 NENW	32 NWNE	32 NENE	33 NWNW	33 NENW	33 LT02	33 LT01	34 NWNW	34 NENW	34 NWNE	34 NENE	35 NWNW
N	32 SENW	32 SWNE	32 SENE	33 SNNW	33 SENW	33 SWNE	33 SENE	34 SNNW	34 SENW	34 SWNE	34 SENE	35 SNNW
V	32 NESW	32 NWSE	32 NESE	N					34 NESW	34 NWSE	34 NESE	35 NWSW
V	32 SESW	32 SWSE	32 SESE	SWSW	SESW	SWSE	SESE	SWSW	34 SESW	34 SWSE	34 SESE	35 SWSW



GOVT LOT MAP
TIIN RITE

MICROFILMED
NOV 0 1 1984

6-14-93

Met w/ Glen Harding

Flood irrigation - all

rotation - not sure

- because of no water
- he is 4 yrs here

- left evidence of priority pamphlet
- her mother is 92 yrs & will provide affidavit
- More acres have been irrigated than shown
possible explanation is due to lack of flows.
Ditches exist & so do diversions

- may need to measure ^{flow} spring & main stream later
(appears less than 2.24 cfs) Best in 6 yrs!
(I will call ahead if I need to measure)
- discussed the adj. need & process.
 - possible reductions to his right - acres
 - Hubble analysis - cfs
 - per acre rate

2.24 cfs on 29 acres = 0.077 cfs/Acre

~ 3.85" **MICROFILMED**
NOV 01 1994

A72-2061

A72-2061

SULLIVAN HOT SPRINGS
CREEK

POOR ORIGINAL



SULLIVAN CREEK

ON EAST SIDE OF UPPER PASTURE

MICROFILMED

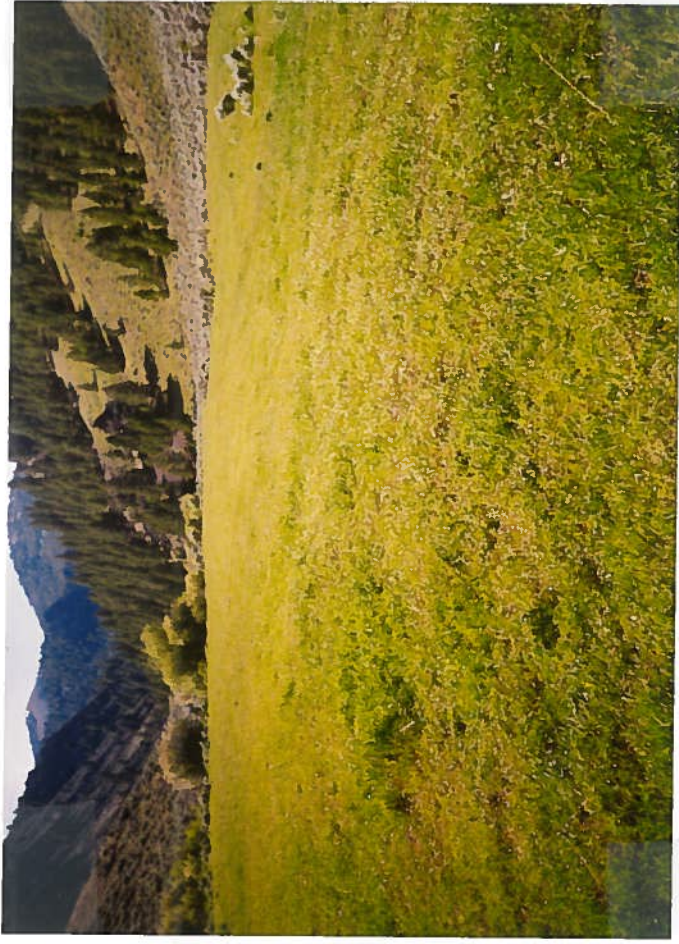
NOV 01 1984

PHOTOS: R72-11

by SCC

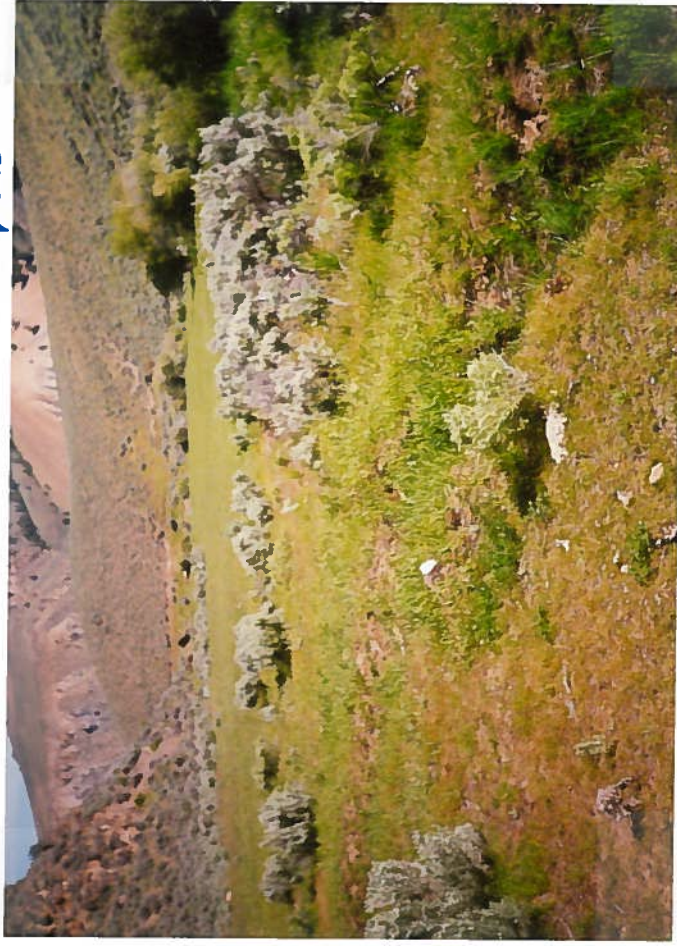
6-14-93

Flow



View
South

MOST UPPER PASTURE VIEWS
FROM EACH END



View
North

IRRIGATION
DITCH

SULLIVAN
CREEK



→ SULLIVAN Cr.

IRRIGATION
Ditch
DELIVERS to
LOWER
PASTURE



BATH House is BUILT upon
HOT SPRINGS SOURCE

PC ORIGINAL



PHOTO: R72-11
by SCC

6-14-93

SULLIVAN Hot
SPRING

A72-2061

MICROFILMED
NOV 01 1994

OUTLET Flow @
Bath house

A72-2061
SULLIVAN Hot Springs
& CREEK



→ IRRIGATION Ditch
TO LOWER
PASTURE

IDWR MEAS. SITE
@ upper irrigation Ditch

POOR ORIGINAL

6-15-93

PHOTOS:
R72-13
dy SCC



SULLIVAN CREEK meas. SITE
Before joining Hotspring Flow

MICROFILMED
NOV 01 1994

A72-2061



SULLIVAN Hot
SPRINGS

OUTLET Flow
From BATH House

6-15-93
Photo: R72-13
by Sec

View From
Outside

POOR ORIGINAL



View From INSIDE

MICROFILMED

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A72-02061

SULLIVAN Hot Springs Creek

POOR ORIGINAL

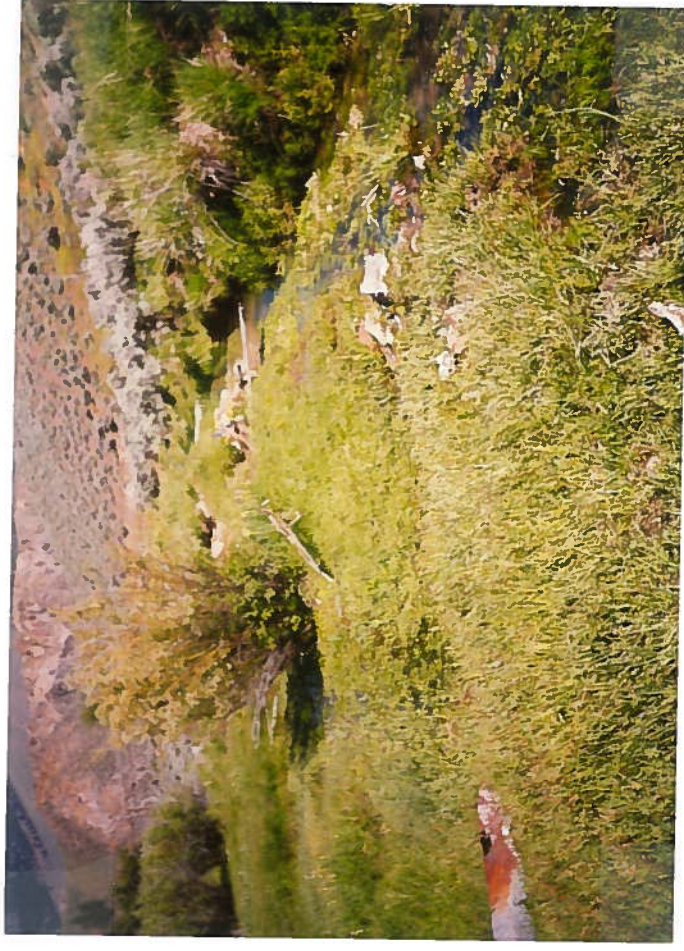
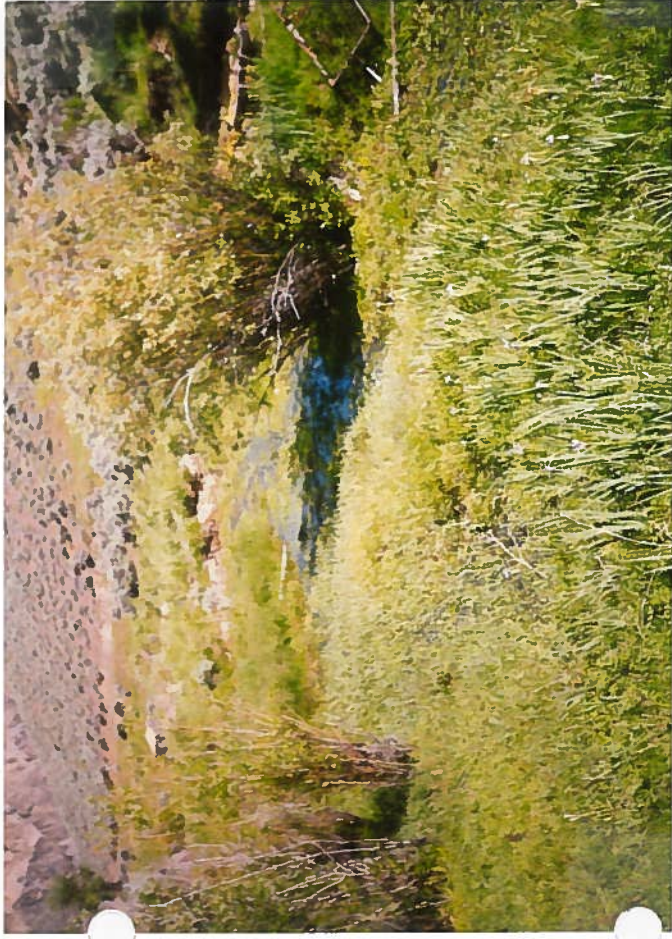


PHOTO:
R72-11
LufSEC

Sullivan Creek AFTER joining the Hot spring flow
+ other SEEPS ARE RISING HERE ALSO.

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NOV 01 1984

6-14-93



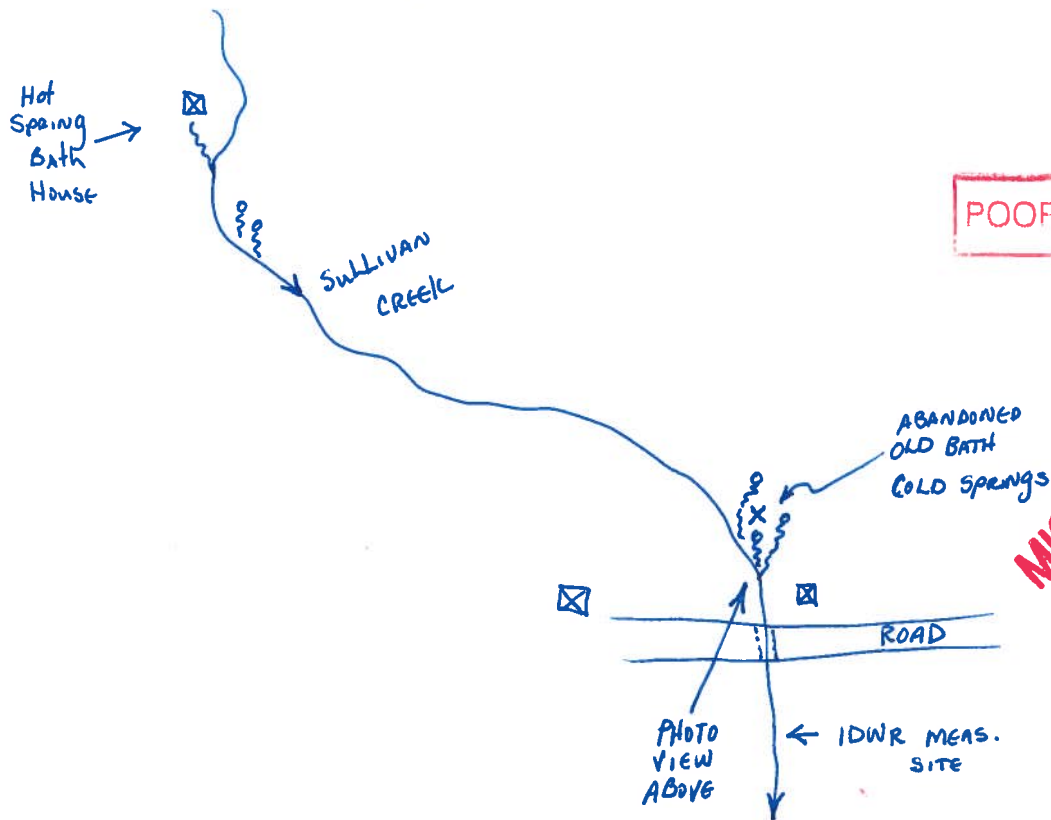
6-14-93

Photo:
R72-11
Myscc

SULLIVAN Hot Spring
Creek.

A72-2061

Additional Flows
Joining SULLIVAN Cr.



POOF ORIGINAL

MICROFILMED
NOV 01 1994

SULLIVAN HOT SPRINGS
CREEK



A72-2061

ROAD BED

IDWR MEAS. SITE

CORRAL SITE

POOR ORIGINAL



IDWR MEAS. SITE Below
ROAD

MICROFILMED
NOV 01 1994

6-15-93

Photo: R72-12

SULLIVAN HOT SPRINGS

A72-2061

POOR ORIGINAL
MICROFILMED

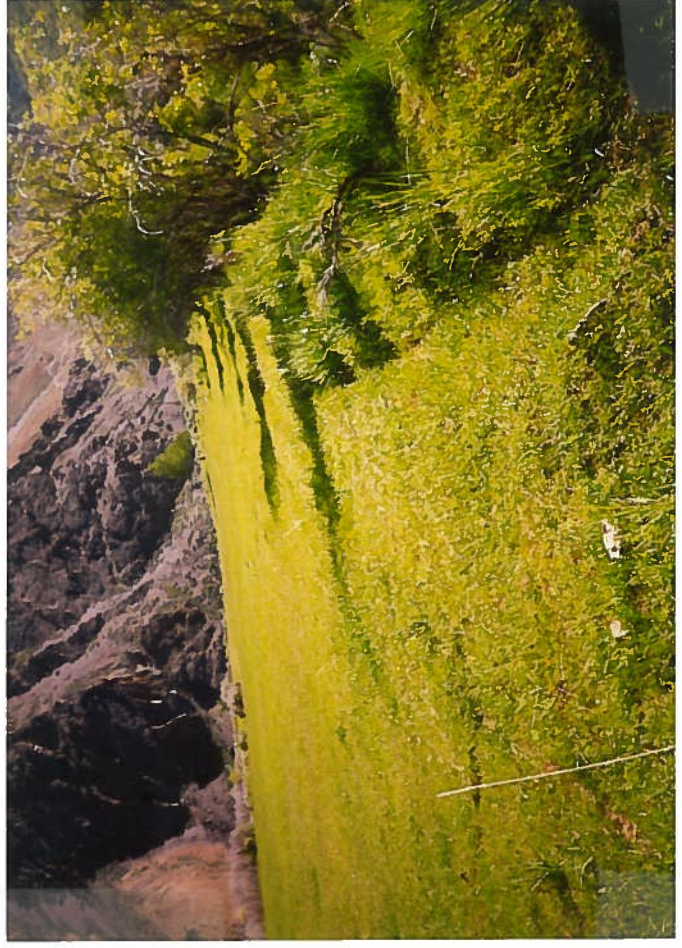
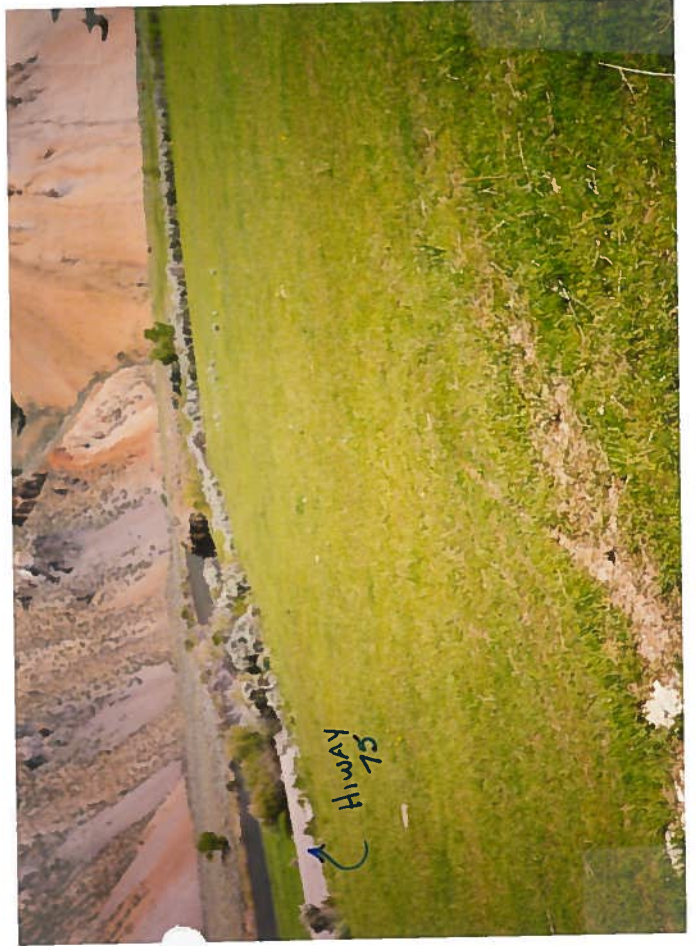
NOV 01 1934



Note: 
Additional PASTURE
ACROSS Hiway 75
VIA PIPE Siphon.

6-14-93

Photo: R72-11
JMS



LOWER PASTURE AS IRRIGATED FROM
SULLIVAN CREEK DITCHES 

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO
REPORT OF ENGINEER

Permit No. 15006

This proof is for A. U.S.

In Water District No.

POOR ORIGINAL

1. Name of applicant: Jarar E. Sullivan
2. Source of water supply: Sullivan Hot Springs and Sullivan Creek
3. Location of point of diversion: Is in the NE 1/4 of Section 27
T. 11 N. R. 17 W., B.M. County of Custer

4. Describe works as they exist, giving dimensions and capacities of same: main ditch 2 1/2 ft wide
2 ft deep capacity 1st 100 inches springs 6" flume for 500 yds into
creek 1st 1/3 ac fl.

5. Water is used for: Irrigation and domestic use

6. State whether or not water has been turned into works of diversion:

List legal subdivisions of lands to be irrigated. If proof is for beneficial use, give exact number of acres under cultivation in each forty-acre tract. (Describe manner and place of use if for other than irrigation):

NE 1/4, SE 1/4, NE 1/4, SE 1/4, NE 1/4, Sec. 27, T. 11 N., R. 17 W.
2 40 238 154 20

(Submit map on attached plat, showing location and details of above description.)

8. What large stream would the water here percolated finally reach? Sullivan River

Remarks: These people took up their water, have been in receipt
for 25 years, and would save the water for good for the

Amount given under each 40 ac as surveyed by their engineer
about 20 ac crop. Hotter springs also used for bath house

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This examination was made on the 12 day of Sept 1928

15018

(Signed)

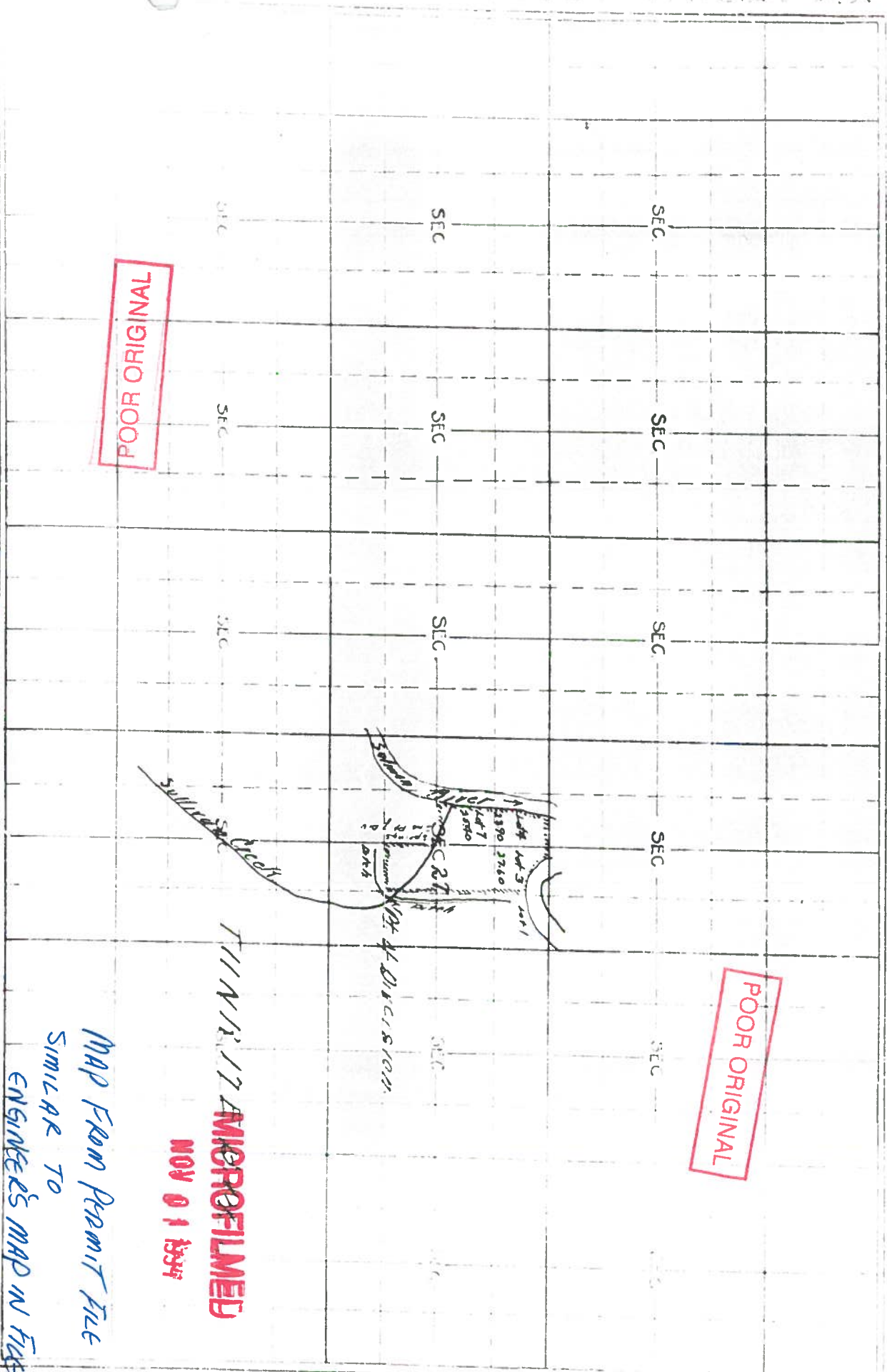
A72-2061

Examiner.

Map of Section 27, Township 12 N, Range 17 E, Section 27, Sullivan

POOR ORIGINAL

POOR ORIGINAL



11/18/17 MICROFILMED

NOV 01 1994

MAP FROM PERMIT FILE
SIMILAR TO
ENGINEER'S MAP IN FILE

SCC 2/2/93

CONVERSATION MEMORANDUM

EMPLOYEE: STEVE CLELLAND

FILE A72-02061

RE: FIELD EXAM Appt.

DATE 6-9-93

NAME OF PARTY

KATHLEEN HARDING

(@ Sullivan Creek)

She called in response to my message on the answering machine.

She wanted to know why I was trying to examine the Ranch. I explained there are some differences between what was licensed and what is claimed and that I need to verify the A.J. claim.

She offered to be there this SAT & SUN but I countered to be there early Monday morning instead.

She will talk it over with her husband and get back with a schedule. I reminded her I could catch their exam on the next trip also.

She mentioned the Creek is dry now but the Hot springs & Pomona Springs are running.

6/8/93 10:55 AM

left message on
machine @ 726-3037

"Requested field Exam
@ Sullivan H.S."

MICROFILMED

NOV 01 1994

Water Right Number - 72-02061

Prefix Translation:

WATER RIGHT

Old (D) Number - 15008

*** C - CURRENT OWNER ***
SULLIVAN
Last Name - SARAH H.
First Name -
Address -
City - CLAYTON
State - ID
Zip -
Phone -

Priority Date - 11/06/1920
Region - 17 SOUTHERN
Stage - L - LICENSE
Status -

Source - SULLIVAN HOT SPRINGS
SULLIVAN CREEK
Tributary - SALMON RIVER
SALMON RIVER

TwN Rng Sec Tract Lot Rflg County Point of Diversion
11N 17E 27 NE SE (37) CUSTER
Stream Index (Blank if no Index Code)

Code Description Period From Period To Water Use Diversion Rate Diversion Volume
01 - IRRIGATION
43 - DOMESTIC
2.240

Total Div. Rate - 2.240
Total Div. Volume -
Total Div. Capacity -

TwN	Rng	Sec	Tract	Lot	Acres	Place of Use	Code	Description	County
11N	17E	27	NW NE		2.0	01 IRRIGATION		(37) CUSTER	
11N	17E	27	SW NE		40.0	01 IRRIGATION		(37) CUSTER	
11N	17E	27	NE NW		24.0	01 IRRIGATION		(37) CUSTER	
11N	17E	27	SE NW		25.0	01 IRRIGATION		(37) CUSTER	
11N	17E	27	NW SE		20.0	01 IRRIGATION		(37) CUSTER	

Total Acres: 111.0

- - - Diversion Means -

- - - Non-Irrigation Use -

- - - Other Rights for Same Use -

Remarks -
AC. IRR.=111.3.
SOURCES FOR THIS RT. ARE SULLIVAN HOT SPRINGS & SULLIVAN CK.

MICROFILMED
01 1994

Water right number - 72-02061

Prefix Translation: WATER RIGHT

+ - - - - - Old Water Right Numbers - - - - - +

+ - - - - - Old Water Right Numbers - - - - - +
No Old Water Right Numbers found.

+ - - - - - Conditions of Approval - - - - - +
No Conditions of Approval found.

+ - - - - - Decree Plaintiff - - - + + - - - Decree Date - - +
00/00/0000

+ - - - - - Comments - - - - - +
No Comments Found

+ - - Audit Fields - 02/11/85 05/28/88 CONVERT

+ - - - - - Water Rights Dates and Flags Area - - - - - +

Proof Due Date	- 00/00/0000	Field Exam Made	- 00/00/0000	Field Exam Fee	-
Approved/Denied	- 00/00/0000	Protested Date	- 00/00/0000	Swan Falls	-
Proof Made Date	- 00/00/0000	Hearing Date	- 00/00/0000	Temporary Right	- P
Exam to S.O. Date	- 00/00/0000	Verified Date	- 02/11/1985	DLE/Carey Act	-
Order Show Cause	- 00/00/0000	Receipt Number	-	Water District	-
Licensed Date	- 07/03/1979	Appl Received	- 00/00/0000	Transfer/Amended	-
Decree Date	- 00/00/0000	Presumption Flag	-		

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NOV 01 1994