

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: A43-04074
Date Received: 6/15/1989
Receipt No: S008256
Received By: SCC

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: F. STANLEY LLOYD 208-638-5543
Address: HC 61 BOX 1510
ELBA, ID 83326

2. Date of Priority: APR 01, 1880

3. Source: SPRINGS Trib. to: SINKS

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
14S	24E	12	SW	NW	SE		CASSIA
			SW	SW	SE		CASSIA

5. Description of diverting works:
COLLECTOR PIPELINES, OPEN DITCHES.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	1.170		
STOCKWATER	01/01	12/31	0.030		

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

8. Total consumptive use is 185.0 Acre Feet Per Annum.

9. Non-irrigation uses:
S/100 RANGE.

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
14S	24E	12	SW	SE		IRR	37.0

A43-04074

Page 1

Date: 06/15/89

MICROFILMED

MAR 05 1993

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
14S	24E	12	SW	SE		STOCK	
			SE	SE		IRR	30.0
			SE	SE		STOCK	
						Section Acres	67.0
	25E	7	NW	SW	3	IRR	1.0
			NW	SW	3	STOCK	
			SW	SW	4	IRR	6.0
			SW	SW	4	STOCK	
						Section Acres	7.0
						Total Acres	74.0

11. Place of use in counties: CASSIA

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

13. Other Water Rights Used:
A43-00192

14. Remarks:
3 P/D IN SWSE, S12, T14S, R24E.

15. Basis of Claim: STATUTORY CLAIM

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): F. Stanley Lloyd Date: 6/15/89

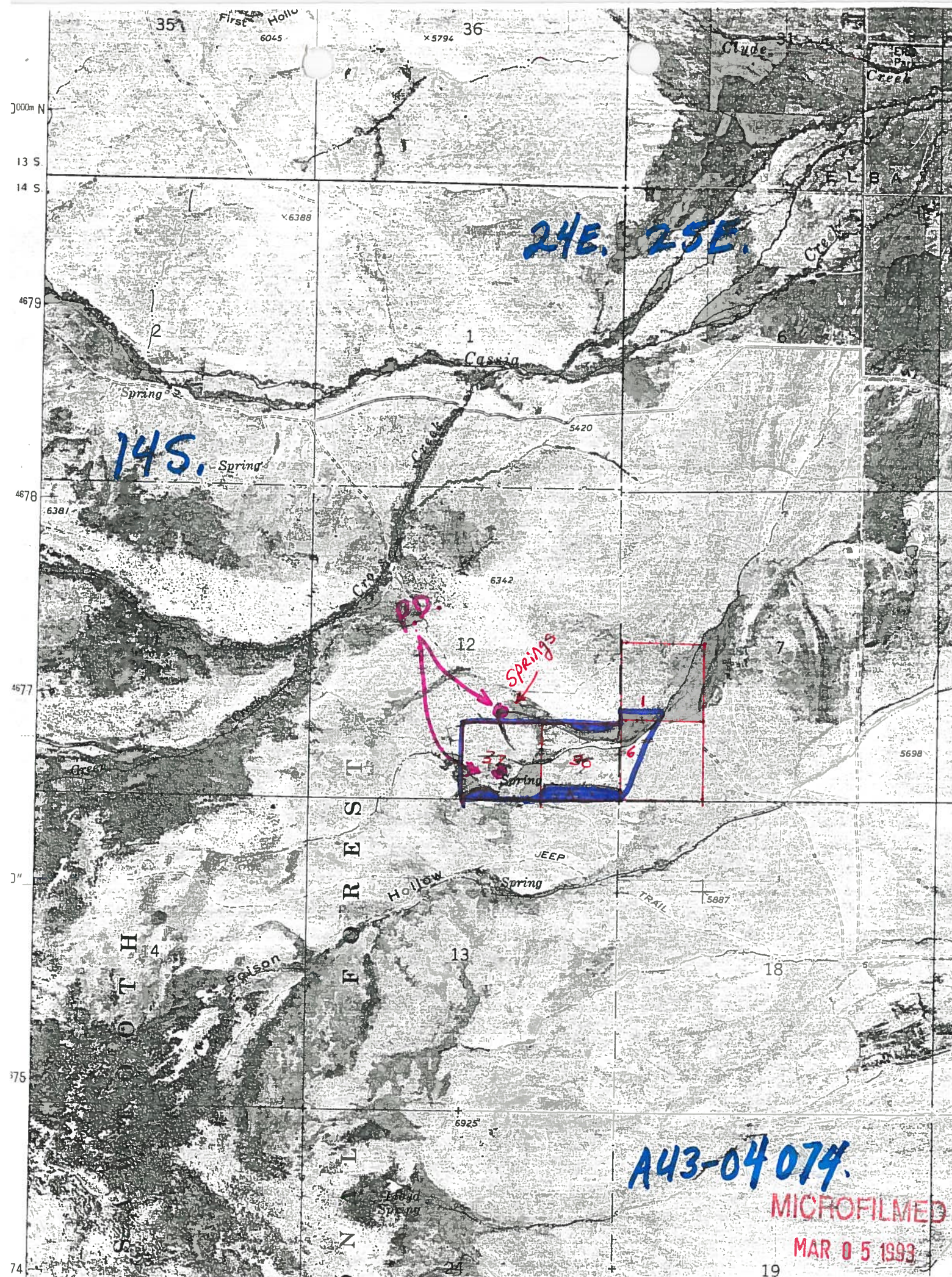
Date: _____

State of Idaho)
County of Twin Falls) SS.

Subscribed and sworn (or affirmed) before me this 15th day
of June 19 89 Steve Collins
Notary Public

Seal

Residing at Twin Falls
My Commission Expires Dec 7 1994





State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

December 5, 1991

R. KEITH HIGGINSON
Director

A43-04074
F. STANLEY LLOYD
HC 61 BOX 1510

ELBA

ID 83326

RE: Evidence of Priority

RESPONSE DEADLINE
FEBRUARY 3, 1992

Dear Claimant:

The Notice(s) of Claim identified with the number shown above your name on the mailing label has been filed in the Snake River Basin Adjudication (SRBA). The Notice(s) indicate your water usage is based on "Beneficial Use" or a "Statutory Claim". Water rights of this type are established by the historical use of water, dating back to when water was first used for the purpose claimed. **The date of first use, known as the priority date, has not been confirmed by a License, Decree or Permit. The Department will soon conduct reviews &/or field exams for the claims in your area. Since the priority date of a beneficial use water right can not be confirmed by field examination, proof must be provided supporting the priority date you have claimed.**

The Department will not recommend the Notice(s) be decreed by the court as claimed if no evidence of a priority date is submitted.

Please find enclosed a computer printout of your Notice(s) and the pamphlet entitled "Evidence of Priority". The pamphlet describes the types of evidence required and suggests which documents will fulfill this requirement. I direct your attention to the two sections entitled "What Kind of Evidence is Required" and "Some Examples of Documents Which May Be Evidence of the Priority Date".

Please submit the required evidence supporting the priority date(s) by **February 3, 1992**, referencing all documents with the corresponding Notice number(s). If you have any questions not covered by this letter or the enclosed pamphlet, please contact this office.

Respectfully submitted,

Allen Merritt, P.E.
Water Rights Supervisor

Enclosures

MICROFILMED

MAR 05 1993

IN THE MATTER OF:

Water Right Number A43-04074

State of Idaho

County of Cassia

AFFIDAVIT

F. Stanley Lloyd

being first duly sworn,

deposes and says: The water From The Springs listed in

A43-04074 has been used for Stockwater And Irrigation
as part of The Irrigation System established for This
Land with a priority Date of 04/01/1880.

I have personal Knowledge of my Father, Fred T. Lloyd
using This water as Described above as I went
around The place with him as he did Irrigation
and hay harvesting. I was born in Elba, Idaho
in 1931. My memory of these uses of these
Springs dates back to 1942 and 1943.

F. Stanley Lloyd
(signature)

Subscribed and sworn to before me this 26th day of Feb. 19 92

[Signature]
(notary public)

Residing at Kimberly ID

My commission expires 6/30/98

MICROFILMED

MAR 05 1993

02/02/2001

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

RIGHT NUMBER: 43-4074

NAME AND ADDRESS: F STANLEY LLOYD
HC 61 BOX 1510
ELBA, ID 83326VERIFIED BY: AKC

SOURCE: SPRINGS

TRIBUTARY: SINKS

QUANTITY: 1 CFS

THE QUANTITY OF WATER UNDER THIS RIGHT FOR STOCKWATER USE SHALL NOT EXCEED
13,000 GALLONS PER DAY.

USE OF THIS RIGHT WITH RIGHT NO. 43-00192 IS LIMITED TO A TOTAL COMBINED
DIVERSION RATE OF 1.00 CFS

PRIORITY DATE: 10/19/1928

POINT OF DIVERSION:	T14S R24E S12	NESWSE	Within CASSIA County
	T14S R24E S12	SWSWSE	Within CASSIA County
	T14S R24E S12	NWSESE	Within CASSIA County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	4-01 10-31	1.00 CFS
STOCKWATER	1-01 12-31	0.03 CFS

PLACE OF USE:

IRRIGATION Within CASSIA County			
T14S R24E S12	SWSE	9.1	T14S R24E S12
T14S R25E S7	LOT 3 NWSW	1.7	T14S R25E S7 LOT 4 SWSW
STOCKWATER Within CASSIA County			
T14S R24E S12	SWSE		T14S R24E S12
T14S R25E S7	LOT 3 NWSW		T14S R25E S7 LOT 4 SWSW

49.9 ACRES TOTAL

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION OF A
COMBINED TOTAL OF 49.9 ACRES IN A SINGLE IRRIGATION SEASON. COMBINED RIGHT
NOS.: 43-00192 AND 43-04074

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

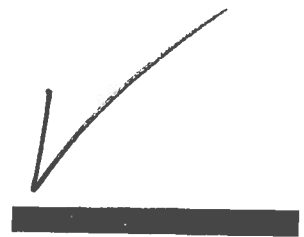
R PROOF



CVR



MAPS

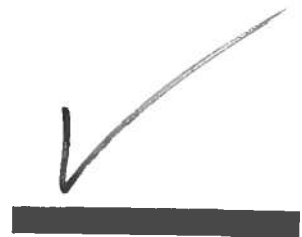


PHOTOS

*See
43-00192*



MISC



Water Right Number - R43-04074

Prefix Translation:

RESEARCH

Old (D) Number -

*** C - CURRENT OWNER ***
LLOYD

F STANLEY

1 - HC 61 BOX 1510
2 -
3 -

City- ELBA
Phone - 208-638-5543

State- ID Zip- 83326

VERIFIED BY *KKC*

+ - - Priority Date - - +
10/19/1928

+ - - Region - - - +
17 SOUTHERN

+ - - Stage - - - +
J - BENEFICIAL USE

+ - - Status - - - +

+ - - Source - - - +
SPRINGS

+ - - Tributary - - - +
SINKS

Tw	Rng	Sec	Tract	Lot	Rflg	County	Point of Diversion
14S	24E	12	NE SW SE			(31) CASSIA	
			SW SW SE			(31) CASSIA	
			NW SE SE			(31) CASSIA	

Code	Description	Period from	Water Use	Period to	Diversion Rate	Diversion Volume
01 - IRRIGATION		04/01	10/31		1.000	
04 - STOCKWATER		01/01	12/31		0.030	

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Consumptive Use - + + - KW Usage - +
1.000 0.0

Tw	Rng	Sec	Tract	Lot	Acres	Place of Use	Code	Description	County
14S	24E	12	SW SE		9.1		01	IRRIGATION	(31) CASSIA
14S	24E	12	SE SE		32.0		01	IRRIGATION	(31) CASSIA
14S	25E	7	NW SW	3	1.7		01	IRRIGATION	(31) CASSIA
14S	25E	7	SW SW	4	7.1		01	IRRIGATION	(31) CASSIA
14S	24E	12	SW SE				04	STOCKWATER	(31) CASSIA
14S	24E	12	SE SE				04	STOCKWATER	(31) CASSIA
14S	25E	7	NW SW	3			04	STOCKWATER	(31) CASSIA
14S	25E	7	SW SW	4			04	STOCKWATER	(31) CASSIA

Total Acres: 49.9

+ - - Diversion Means - COLLECTOR PIPELINES, OPEN DITCHES.

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - A43-00192

Water right number - R43-04074

Prefix Translation: RESEARCH

+ - - - - - Remarks - - - - - +

QNT USE OF THIS RIGHT WITH RIGHT NO. 43-00192 IS LIMITED TO A
TOTAL COMBINED DIVERSION RATE OF 1.00 CFS.

POU1 USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION
OF A COMBINED TOTAL OF 49.9 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS.: 43-00192 AND 43-04074.

+ - - - - - Old Water Right Numbers - - - - - +
4304074

+ - - - - - Conditions of Approval - - - - - +
N05 - THE QUANTITY OF WATER UNDER THIS RIGHT FOR STOCKWATER USE
- SHALL NOT EXCEED 13,000 GALLONS PER DAY.

N08 - THE QUANTITY OF WATER DECREED FOR THIS WATER RIGHT FOR
- STOCKWATER USE IS NOT A DETERMINATION OF HISTORICAL BENEFICIAL
- USE.

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.

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

+ - - - - - Comments - - - - - +
Date: 01/20/2000 User Id: KCHRISTE Subject: COPIED FROM REMARKS
3 P/D IN SMSE, S12, T14S, R24E.

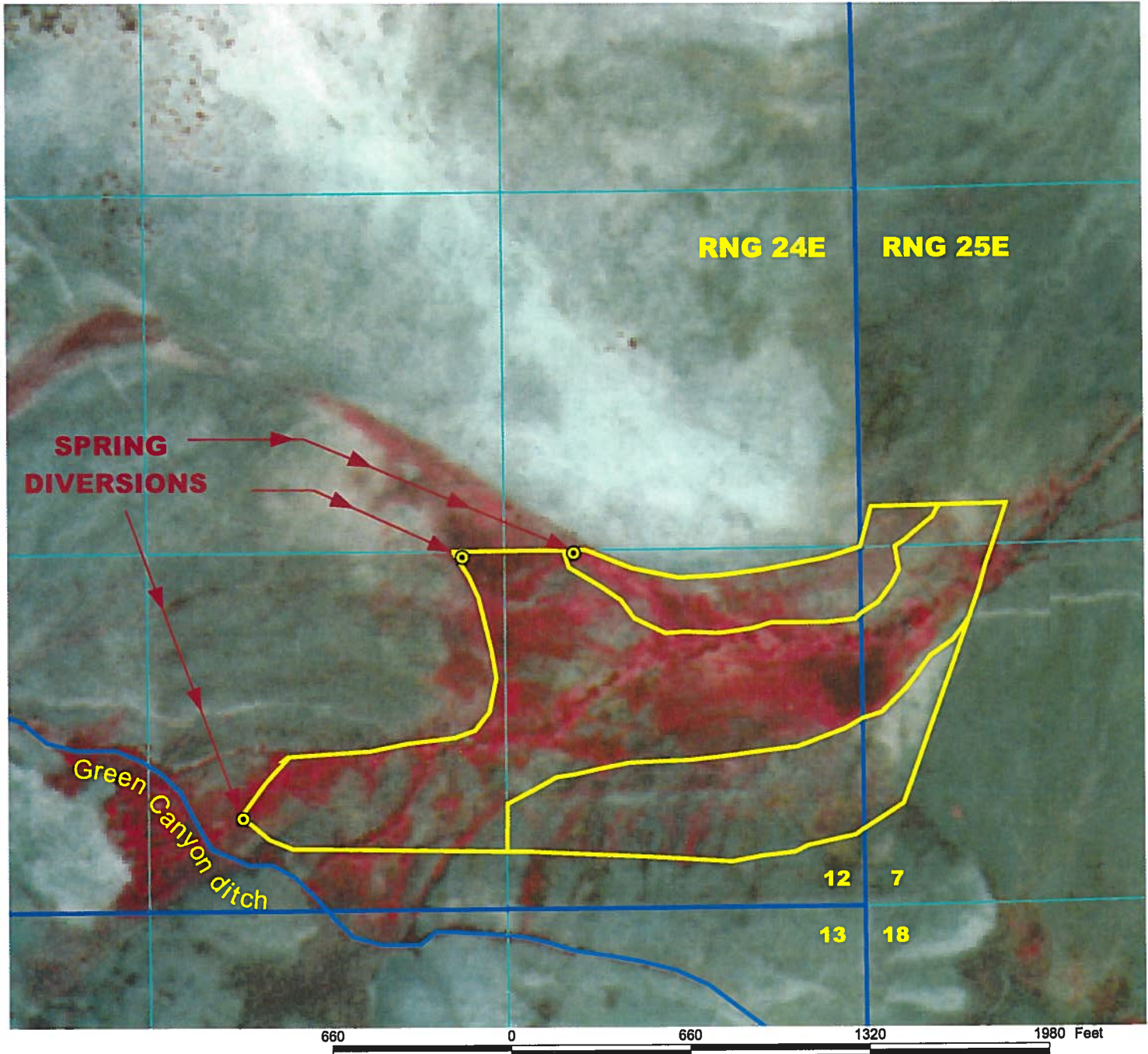
+ - - - - Audit fields - - +
01/21/00 KCHRISTE

+ - - - - - Adjudication Rights Dates and Flags Area - - - - - +

Court Report Filing	- 00/00/0000	Field Inspection Made	- 07/28/1994	Civil Case Number	- 39576
Objection Filed Date	- 00/00/0000	Field Inspection Flag	-	Old Case Number	-
Response Filed Date	- 00/00/0000	Verified Date	- 01/21/2000	Old Judicial District	-
Claim Received Date	- 06/15/1989	Last Amended Date	- 00/00/0000	Temporary Right	- P
		Receipt Number	- S008256	Water District	-
		POU Ownership Flag	- Y	Federal/State Indicator	- S
		Name Connector	-	Presumption Flag	-
				Notice of Error Flag	-

IDAHO DEPARTMENT OF WATER RESOURCES

Recommended place of use
43-00192 Green Canyon source
43-04074 Springs source



PLACE OF USE

TWP 14S RNG 24E, SEC 12

TWP 14S RNG 25E, SEC 7

data entry on: December 8, 1999

JPEG Created : 43-00192 4074 rec lloyd

GIS PLACE OF USE PRESENTATION

1987 AND/OR 1988 NAPP PHOTOGRAPHY

DATA ENTRY BY KELLY K CHRISTENSEN

- POINT OF DIVERSION
- PLACE OF USE
- SECTION LINES
- QUARTER/QUARTER LINES

CASSIA CO.



CLAIM NUMBER A43-04074

DATE 11-30-99

TRANSFER NUMBER —

AGENT KKC

CLAIMED ACRE TOTAL 74

GIS ACRE TOTAL 49.9

	TWP	RNG	SEC	NE				NW				SW				SE			
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
CLAIM	14S	24E	12															37	30
GIS			12															9.1	32
RECOM			12															9.1	32
CLAIM	14S	25E	7											1	6				
GIS														1.7	7.1				
RECOM														1.7	7.1				
CLAIM																			
GIS																			
RECOM																			

B43-DBPOU.SHP

SHAPE NOS. 45
46 47

43-DBPOD.SHP

NOS. DESCRIPTION I am recommending the found place of use which requires shifting a few acres between the Q/Qs. The majority of the SWSE could never have been irrigated from the springs sources. See additional info in P/U narrative dated 12-1-99

29 Sec 12 NWSESE Mannings measurement gives a
manings worksheet
ED = Spring # 8 system capacity of 0.77CFS

30 Sec 12 NE SWSE not measured.

31 Sec 12 SWSWSE Mannings worksheet ed = Spring #9
Mannings measurement gives a sys Capacity of 1.13CFS

DBF TABLES UPDATED

B43-DBPOU.DBF ☒

B43-DBPOD.DBF ☒

JPEG LAYOUT 43-00192 401% rec Lloyd

total of Calc SysCap = 1.90CFS

MR 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			7-28-94 KRC	Y	KRC	KRC 8-12-89		
POINT OF DIV	Y		"	Y		1		
SOURCE			"	N				
PLACE OF USE	Y		"	Y		1		
DIV. AMOUNT CFS/VOLUME			12-8-89	Y		KRC 12-8-89		
CONSUMPTIVE USE	-			-		-		
PURPOSES				N				
PERIOD OF USE				Y		1		
BASIS OF CLAIM				Y		1		
REMARKS	Y			Y		1		

"VERIFIED BY" CODES

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

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

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	F. STANLEY LLOYD HC 61 BOX 1510 ELBA ID 83326 (208) 638-5543	04/01/1880	IRRIGATION STOCKWATER	04-01 11-01 01-01 12-31	1.17 CFS 0.03 CFS	
TOTAL DIVERSION: CONSUMPTIVE USE:					1.20 CFS	185.00 AFA

Water Source: SPRINGS

Tributary to: SINKS

Stage: STATUTORY CLAIM

Point(s) of Diversion:

T14S R24E S12

SWNWSE

SWSWSE

CASSIA County

Place of use Legal Description for: IRRIGATION

	NE	NW	SW	SE	SUM
T R S : Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac
14S 24E 12 :	:	:	:	:	:
14S 25E 7 :	:	:	:	:	:
TOTAL ACRES	:	:	:	:	:
					67.0
					7.0
					74.0

Place of use Legal Description for: STOCKWATER

	NE	NW	SW	SE	SUM
T R S : Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac
14S 24E 12 :	:	:	:	:	:
14S 25E 7 :	:	:	:	:	:
TOTAL ACRES	:	:	:	:	:
					03-S
					04-S
					S
					S
					S

POU County: CASSIA

Non-Irrigation Uses: S/100 RANGE.

Other Rights: A43-00192

Remarks: 3 P/D IN SWSE, S12, T14S, R24E.

Dates: Exam Made Date:

Verified Date: 06/18/1985

Misc: Water District Number:

Field Inspection Flag: C
Presumption Flag: C

LAST: LLOYD
ADDRESS: HC 61 BOX 1510
CITY: ELBA
PHONE NUMBER: 208-638-5543
STATE: ID ZIP: 83326

FIRST: F. STANLEY

OWNER CODE: C

FIELD EXAM REQUIRED?

DATABASE
Y
FIELD EXAMINER

VERIFICATION REQUIRED DUE TO REMARKS?

CLAIM REMARKS: 3 P/D IN SWSE, S12, T14S, R24E.

FIELD EXAMINATION INFORMATION

CONTACT PERSON:

Stan Lloyd 10-27-99

PHONE NUMBER: () -

DATE OF FIELD EXAM:

7/28/1994 also

APPOINTMENT MADE: Y() N()

TIME: : A() P()

ACCOMPANIED BY:

Stan Lloyd partner

PHONE NUMBER: () -

RELATIONSHIP TO CLAIMANT:

DIRECTIONS TO PROPERTY / NOTES:

A. AJ CLAIM: # 443-04074

PRIORITY DATE: 04-01-1880

STAGE: S

B. WR RECORD: # 43-04074

PRIORITY DATE: 04-01-1880

STAGE: S

C. FIELD EXAM REQUIRED?

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

DATABASE
EXAMINER
NARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? Y() N()
IF YES EXPLAIN.

NOTES:

The claimed priority date precedes the John Adams decree. The springs were not included in the decree.

The claimed P/U was part of the John Adams decree (43-00192). Evidence of priority submitted by Stan Lloyd indicates personal knowledge of the father using the system in the early 1940s. He indicates that he was originated in the 1880s.

As this was not recommended in the John Adams decree and the P/U was part of the decree, I cannot recognize a priority date prior to the decree. I accept the statement that the was occurred prior to the decree date and therefore recommend a priority date one day after the decree date.

RECOMMENDED PRIORITY DATE:

04-01-1880

REVIEWED BY

KRC

DATE

12-8-99

Recommend: 10-19-1928

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A43-04074	14S	24E	12	SW	NW	SE		CASSIA
A43-04074	14S	24E	12	SW	SW	SE		CASSIA

OTHER AJ CLAIMS WITH SAME AJ POD

A PREFIX NONE R PREFIX NONE

MR RECORDS IN SAME 40 ACRE TRACT

43-00192
T43-00192

SOURCE: SPRINGS

TRIB: SINKS

B. MR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
43-04074	14S	24E	12		SW	SE		CASSIA

OTHER MR RECORDS WITH SAME MR POD

AJ CLAIMS IN SAME 40 ACRE TRACT
A PREFIX R PREFIX

NONE

A43-00054

NONE

SOURCE: SPRINGS

3 Spring sources found
TRIB: SINKS

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY?	(Y/N)	DATABASE	FIELD EXAMINER
DUE TO SOURCE DISCREPANCY?	(Y/N)	Y	
	N		

NOTES:

See narrative and GTS layout & land list for POD locations.

A. ROOT WATER RIGHT NUMBERS: A43-04074

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES
14S	24E	12	SW	SE		LLOYD, F. STANLEY	A43-04074 / 37.0	43-04074 / 40.0			
			SW	SE		LLOYD, F. STANLEY	A43-00192 / 37.0	43-00192 / 23.0			
			SW	SE		LLOYD, F. STANLEY					
14S	24E	12	SW	SE		LLOYD, F. STANLEY	A43-04074 /	43-04074 / 40.0			
			SW	SE		LLOYD, F. STANLEY	A43-00192 / 37.0	43-00192 / 23.0			
			SW	SE		LLOYD, F. STANLEY					
14S	24E	12	SE	SE		LLOYD, F. STANLEY	A43-04074 / 30.0	43-04074 / 40.0			
			SE	SE		LLOYD, F. STANLEY	A43-00192 / 30.0	43-00192 /			
			SE	SE		LLOYD, F. STANLEY		43-00015 /			
			SE	SE		LLOYD, F. STANLEY		43-00192 / 17.0			
14S	24E	12	SE	SE		LLOYD, F. STANLEY	A43-04074 /	43-04074 / 40.0			
			SE	SE		LLOYD, F. STANLEY	A43-00192 / 30.0	43-00192 /			
			SE	SE		CASSIA CREEK IRRIGATION CO.		43-00015 /			
			SE	SE		LLOYD, F. STANLEY		43-00192 / 17.0			
14S	25E	7	NW	SW	3	LLOYD, F. STANLEY	A43-04074 / 1.0	43-00192 /			
			NW	SW	3	LLOYD, F. STANLEY	A43-00192 / 1.0	43-00015 /			
			NW	SW	3	CASSIA CREEK IRRIGATION CO.		43-00192 / 1.0			
14S	25E	7	NW	SW	3	LLOYD, F. STANLEY	A43-04074 /	43-00192 /			
			NW	SW	3	LLOYD, F. STANLEY	A43-00192 / 1.0	43-00015 /			
			NW	SW	3	CASSIA CREEK IRRIGATION CO.		43-00192 / 1.0			
14S	25E	7	SW	SW	4	LLOYD, F. STANLEY	A43-04074 / 6.0	43-00192 /			
			SW	SW	4	LLOYD, F. STANLEY	A43-00192 / 6.0	43-00015 /			
			SW	SW	4	CASSIA CREEK IRRIGATION CO.		43-00192 / 4.0			
14S	25E	7	SW	SW	4	LLOYD, F. STANLEY	A43-04074 /	43-00192 /			
			SW	SW	4	LLOYD, F. STANLEY	A43-00192 / 6.0	43-00015 /			
			SW	SW	4	CASSIA CREEK IRRIGATION CO.		43-00192 / 4.0			
TOTAL ACRES							A43-04074	74.00			160.00

ARE IRRIGATED ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, (Y) (N)
IF YES SEE ATTACHED SHEET:C. FIELD EXAM REQUIRED? DATABASE FIELD POU COUNTY: CASSIA
DUE TO POU DISCREPANCY? (Y/N) Y EXAMINER

See GTS layout and
hand list for pre commendation
see also narrative

A. AJ CLAIMED USES:

PURPOSES
A43-04074 IRRIGATION
A43-04074 STOCKWATER

MONTH/DAY
FROM 04-01 TO 11-01
FROM 01-01 TO 12-31

DIVERION QUANTITY

1.170 CFS
.030 CFS

TOTAL DIVERION RATE/VOLUME CLAIMED

1.200 CFS

B. WR RECORDED USES:

PURPOSES
43-04074 IRRIGATION
43-04074 STOCKWATER

MONTH/DAY
FROM 04-01 TO 11-01
FROM 01-01 TO 12-31

DIVERION QUANTITY

1.170 CFS
.030 CFS

TOTAL DIVERION RATE/VOLUME CLAIMED

1.200 CFS

PRESUMPTION FLAG:

N/A

C. FIELD EXAM REQUIRED?

	FIELD EXAM REQUIRED?	DISCREPANCY?	Y/N	DISCREPANCY?	Y/N	DISCREPANCY?	Y/N	DISCREPANCY?	Y/N
DUE TO WATER-USE									
DUE TO DIVERION RATE									
DUE TO PERIOD FROM/TO									

DATABASE EXAMINER
N
N
N

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

Y() N()

RECOMMEND TO WR STANDARDS OR OTHER?

Y() N() Explain in notes, below.

NOTES:

The season of use standard in 4-1 to 10-31 as this is a beneficial use claim I recommend the Sept standard season. I accept the stockwater diversion rate as valid, although logic would indicate that the natural channel would probably provide a better source during winter months.

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

Y () N ()

AJ TOTAL CLAIMED DIVERSION RATE:

1.200 CFS

MR ROOT RIGHT TOTAL DIVERSION RATE:

1.200 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 notes. **

FLOW MEASUREMENT REQUIRED?

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

Y

FIELD
DATABASE EXAMINER

B.

MEASUREMENT METHOD

FLOW MEASUREMENT

SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED?

Y () N ()

IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: A43-00192

LIST ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE:

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
A43-04074	SPRINGS	LLOYD, F. STANLEY	1.200	0.016		
A43-00192	GREEN CANYON CREEK	LLOYD, F. STANLEY	0.800	0.010		

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

D.

RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE
ACRES 49.9 x 0.02 CFS/ACRE = .998 CFS
(Taken from p/u review)

1b. CALCULATIONS

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

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

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = 185.0 AF/A

ACRES _____ x CONSUMPTIVE VOL. AF/A FOR AREA _____ =

TOTAL CONSUMPTIVE USE _____ AF/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = _____ AF/A

ACRES _____ x DIVERSION VOL. AF/A FOR AREA _____ =

TOTAL DIVERSION VOLUME _____ AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y(☐) N(☐)
3 P/D IN SWSE, S12, T14S, R24E.

NOTES: (Include limitations on CONSUMPTIVE USE for combined rights.)

*Recommendation
based upon 1/4c limit as
historically established in the
Jete Adams decree.*

RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD		REC. DIV RATE CFS	REC. DIV VOL. AF/A		REC. CONS. USE
	FROM	TO				
IRRIGATION	04-01	~~11-01~~ 10-31	DATABASE EXAMINER 1.170			DATABASE EXAMINER 185.0
STOCKWATER	01-01	12-31	0.030 <u>OK</u>			<u>OK</u>
TOTAL FOR THIS RIGHT			1.200			

REVIEWED BY: KHC

DATE: 1-20-00

A. CHECK ONLY THE FOLLOWING THAT APPLY:

	ACCEPTED AS CLAIMED	NEEDS REVIEW
OWNERSHIP	()	()
FORFEIT/ABANDON	()	()
ADDITIONAL DIV. AMOUNT	()	()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 43-04074

TOTAL DIVERSION RATE OF WR SPLITS

DATABASE 1.200

CFS

SPLITS:

OLD RIGHT NUMBERS	CURRENT CLAIM NUMBERS	DIVERSION RATE	CURRENT "R" CLAIM NUM.	"R" DIV. RATE	WR RIGHT NUMBERS	DIVERSION RATE
-	443-04074	1.200	-		43-04074	1.200
TOTAL CFS						1.200

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

NOTES:

AUTHENTICATION:

SIGNATURE:

Kelly K. Christensen

DATE: 1-20-2000

NAME OF FIELD EXAMINER:

TITLE: SR Water Resource Agent

43-00192 & 43-04074

GREEN CANYON CREEK / SPRINGS, PLACE OF USE

43-00192 ANALYSIS

The source for this right is Green Canyon Creek. The point of diversion and delivery system are shared with other claimants on different places of use (P/D overlap). Transfer 3580 was approved on 2-11-92 to correct the place of use for this right. The transfer was approved for a total irrigated place of use of 45 acres. This analysis starts with the premise that the transfer established the place of use by quarter/quarter as of 1992 and therefore I cannot recommend acres in excess of the number of acres identified by the transfer. Any changes to the system creating a change in the place of use would necessarily require a new transfer. As the transfer specifically established the place of use, I cannot recognize an unrecorded transfer of the place of use after that date. The transfer was also filed to change the source from Green Canyon Creek to groundwater. That portion of the transfer was disallowed.

I conducted a field examination on 7-28-94 and interviewed Stan Lloyd on 10-27-99 at his home. The transfer identified four different quarters as parts of the irrigated place of use. See the table below.

	Sec 12		Sec 7		
	SWSE	SESE	NWSW	SWSW	
Claimed and transfer approved acres	23	17	1	4	45
Found irrigated acres	9.1	32	1.7	7.1	
Recommended acres	9.1	17	1	4	31.1

Analysis of Sec 12 SW $\frac{1}{4}$ SE $\frac{1}{4}$

The transfer identified 23 irrigated acres within that quarter/quarter and I found 9.1 irrigated acres. Through the field examination and my conversations with Stan Lloyd, I identified approximately 14 acres that had been irrigated prior to 1992 but were no longer being irrigated. The delivery system from Green Canyon Cr. ditch that irrigated the 14± acres was replaced with a different diversion from the same ditch approximately 800 feet downstream from that diversion. According to Stan Lloyd this occurred in 1992.

Analysis of 13.9 acres no longer being irrigated.

1. The transfer established the place of use as of 1992.
2. The irrigation system changed subsequent to that date.
3. No irrigation was possible after 1992 for the 13.9 acres.
4. No legal remedies were sought to protect those acres.
5. The acres are currently not being irrigated.

I am recommending that the 13.9 acres no longer irrigated in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ for forfeiture based upon non-use from 1992 through the present.

Analysis of SESE of Sec 12, and all irrigated quarters of Sec 7

The diversion point that was developed approximately 800 feet downstream from the original diversion carries water roughly through the center of the place of use and can also be diverted into the southern most spring delivery system. Through various secondary ditches, Green Canyon Creek water can be applied to the balance of the place of use. There was a pipeline coming from the Green Canyon ditch in the NWNW of Sec 13 that ran north into the place of use but Stan indicated that this system had been abandoned also. This diversion would have irrigated much of the same place of use as covered by the same southern spring system mentioned above. The transfer established the maximum number of irrigated acres in each of the three remaining forties and I found irrigated acres that exceeded the transfer acres for all three. Therefore I am recommending the acres by quarter/quarter as established in the transfer.

43-04074 ANALYSIS

There are three distinctive diversion points for the spring seeps within the claimed place of use. Although the three diversion points are independent, the place of use under the three diversions overlap and are operated together to completely irrigate the found place of use. Therefore, I accept the three diversions as one system under one claim. The diversion rates from the three locations are additive to determine the legal limit for the recommended diversion rate. A portion of the place of use is normally a wetland and does not require additional water but can dry up in the late fall and require irrigation at that point.

There is one point of diversion in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ that goes into a ditch that runs easterly to the northeast corner of the place of use. Water flows generally southeast from the ditch. Scott King provided a mannings analysis for data recorded by Allen Merritt and Kelly K Christensen. The spring was identified as spring # 8. The calculations gave a system capacity for this ditch system as 0.77 cfs.

A second point of diversion is in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$. That diversion is tied into a pipeline the runs generally south to the central drainage running through the claimed place of use. Gravity flow is east to southeast from this pipeline. No diversion capacity was calculated for this point of diversion.

The third diverted spring is located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$. The ditch from this point of diversion runs virtually straight east along the southern side of the property and forms the southern most boundary for the place of use. Water flows north to northeast from this ditch. Green Canyon Creek water can be diverted into this system. Scott also analyzed this spring from data prepared by Allen and Kelly. The system capacity was determined to be 1.13 cfs.

I am recommending this claim for all found irrigated acres as spring water can reach the entire place of use for one inch per acre or 1.00 cfs as the system capacity exceeds the one inch per acre legal limit.

PREPARED BY: Kelly K Christensen

December 8, 1999

443-00192 4074 Lloyd grn can cr

File Name: A4304074 StanLloyd Gn Can8.xls
Water Right No. A43-04074
Owner: Stan Lloyd
Source/Trib: Springs/Sinks
Name: Gn Canyon ditch & springs No. 8
Location: 14S 24E 12 SE
Document Description: Stan Lloyd P/U Gn Canyon ditch & springs. Spring meas. N of prop. Ditch runs ESE #8
Channel flow capacity estimates by Scott King.
Prepared By: Scott King
Date: January 2000

Measured Flow: n/a
Average Velocity: n/a
Slope: 0.0598 ft/ft

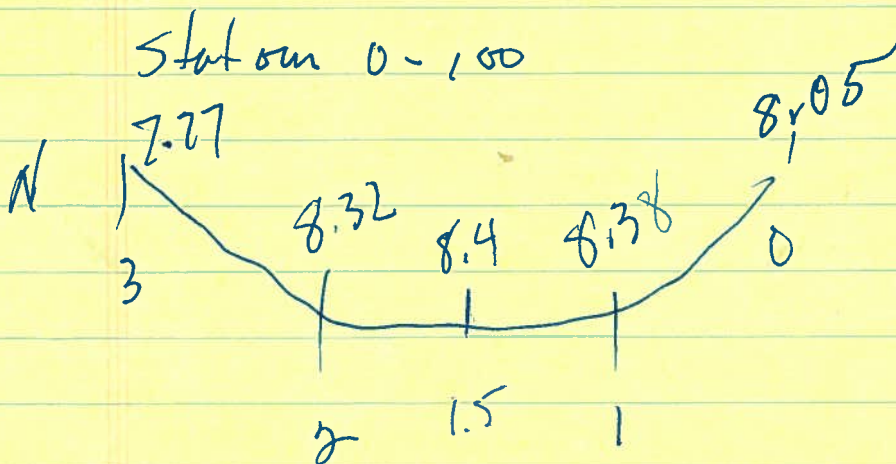
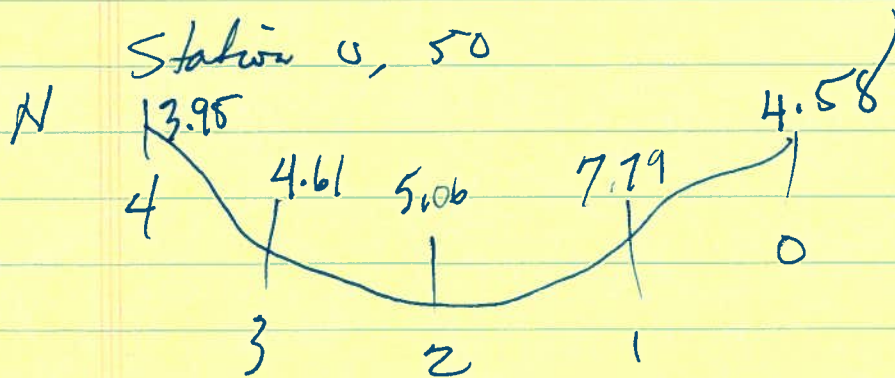
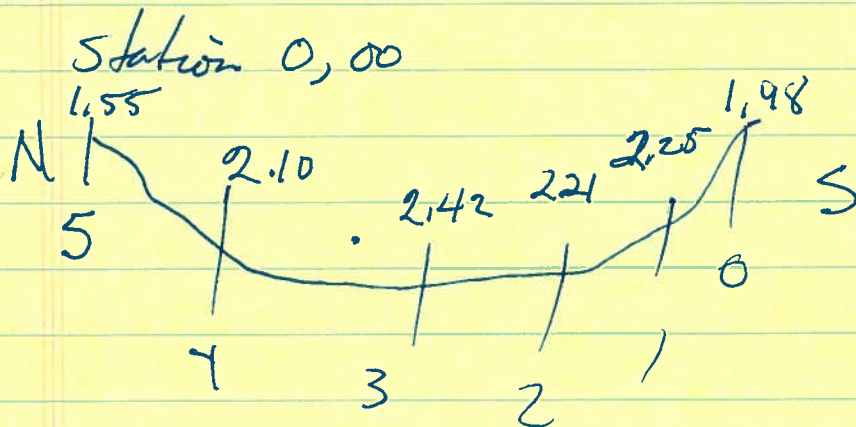
	Channel Area A (ft ²)	Top Width T (ft)	Maximum Depth (ft)	Hydraulic Depth D (ft)	Hydraulic Radius R (ft)	Manning's Computed Flow Rate at:			Critical Flow (cfs)
						n=	n=	n=	
						0.05 (cfs)	0.065 (cfs)	0.08 (cfs)	
Observed Flow--none recorded		--	--	--	--	--	--	--	
Section Avg at Bankfull	0.79	3.3	0.42	0.24	0.30	2.55	1.96	1.59	
Sect Ave at 0.1' freeboard	0.49	2.67	0.32	0.18	0.23	1.33	1.02	0.83	
Smallest Section, 0.1' fb	0.33	2.01	0.25	0.17	0.20	0.82	0.63	0.51	0.77

Comments: Mannings n assumed to be in the range of 0.05 to 0.08. Survey results provided by Kelly C., Southern Region. No photographs or description of conditions were provided with the survey data to indicate roughness. This channel is quite shallow with an average depth of 0.25 feet. Some freeboard is required, and a freeboard of 0.10 feet was selected as appropriate for this analysis.
The smallest, or "choking" section in this set is "C," the downstream one. If a Manning's n value of 0.065 is representative of conditions, then subcritical flow can be expected above section C, and critical flow at section C would pose a constraint with a flow of 0.77 cfs at 0.10 ft freeboard.

Stan Lloyd P/U Gn Canyon Ditch & Springs

Spring meas. N of Prop. ditch runs E 58 #8

logged as
pic 1 N43-
file 4074



File Name: A4304074 StanLloyd Gn Can9.xls

Wtr Rt No: A43-04074

Owner: Stan Lloyd

Source/Trib: Springs/Sinks

Division Name: Gn Canyon ditch & springs No. 9

Location: 14S 24E 12 SE

Document Description: Stan Lloyd P/U Gn Canyon ditch place Spring means on So side of P/U #9

Prepared By: Channel flow capacity estimates by Scott King

Date: 1/13/00

Arbitrary Datum: 1000 ft

HI: unknown ft

HI Elevation: unknown ft

Abbreviation Legend:

LTB / RTB: Left/Right Top Bank

LHW / RHW: Left/Right High Water Mark

LEW / REW: Left/Right Edge of Water

Thalweg: Bottom of channel

Important Equations:

Manning's: $U = 1.486 \cdot R^{2/3} \cdot S^{1/2}$

Froude No: $U / \sqrt{g \cdot \text{Hydraulic Depth}}$

At bankfull	sect avg	low Q sect = A
depth	0.25	0.23 ft
area	0.57	0.40 ft ²
flow	0.672	0.430 cfs
velocity	1.14	1.08 fps
top width	3.80	2.880 ft
Hyd Depth	0.15	0.138 ft
Froude No	0.53	0.52
Hyd Radius	0.18	0.17 ft
Critical Flow	0.83 cfs	0.83 cfs
average slope:	2.41% (steep)	assumed manning's n

From MIKE11 analysis, modified section:

Cross-Section	Station (ft)	Rod (cmt-ft)	Rod (top-ft)	Rod (btm-ft)	Distance (ft)	Elevation (ft)	Arbitrary	Level (ft)	Area (sqft)	X-Sect	Top	Velocity	Flow	Freeboard	Hyd depth	Froude No	Depth
												U=mannings	Q=A*U	(ft)	Dh=A/T	=U/sqrt(g*Hd)	(ft)
A	0.00	5.56						994.44	LTB		0	0.00	0.000	0.23	0.000	0.000	0.00
A'	0.12	5.61						994.39	Est point, elev=RTB		0.2	0.07	0.000	0.23	0.000	0.000	0.00
A'	0.40	5.71						994.29	Est point, 0.1' freeboard		0.4	0.12	0.000	0.22	0.005	0.29	0.01
A'	0.60	5.77						994.23	Estimated point		0.633	0.21	0.001	0.21	0.011	0.35	0.02
A'	0.80	5.82						994.18	Estimated point		0.807	0.27	0.004	0.20	0.017	0.36	0.03
A	1.00	5.84			45.00			994.200	Thalweg		0.98	0.34	0.008	0.19	0.023	0.39	0.04
A'	1.30	5.83						994.215	Estimated point		1.153	0.42	0.016	0.17	0.034	0.40	0.06
A'	1.70	5.80						994.230	Estimated point		1.325	0.49	0.029	0.16	0.044	0.42	0.07
A	2.00	5.76						994.240	Estimated point		1.433	0.54	0.039	0.15	0.050	0.42	0.08
A	2.33	5.71						994.253	Est point, 0.1' freeboard		1.558	0.60	0.054	0.14	0.058	0.44	0.09
A	3.00	5.61						994.265	RTB		1.682	0.65	0.072	0.13	0.066	0.44	0.11
								994.278			1.806	0.70	0.093	0.11	0.073	0.46	0.12
								994.28			1.93	0.75	0.117	0.10	0.081	0.46	0.13
								994.303			2.049	0.79	0.144	0.09	0.088	0.47	0.14
								994.315			2.168	0.84	0.174	0.07	0.095	0.48	0.16
								994.327			2.286	0.88	0.207	0.06	0.103	0.49	0.17
								994.34			2.405	0.93	0.245	0.05	0.110	0.49	0.18
								994.352			2.5	0.97	0.285	0.04	0.117	0.50	0.19
								994.37			2.643	1.01	0.329	0.02	0.124	0.50	0.21
								994.39			2.880	1.08	0.430	0.00	0.138	0.52	0.23

The calculated
System capacity
for this diversion
is
1.13 CFS
see Pg 2.

192/3

B	0.0	6.95	993.05	LTB	992.820	0.000	0.000	0.000	0.00	0.00	0.23	0.00
B'	0.7	6.98	993.02	Estimated point	992.825	0.001	0.003	0.225	0.07	0.20	0.22	0.00
B	1.0	7.01	992.99		992.830	0.002	0.006	0.450	0.12	0.31	0.22	0.00
B'	1.19	7.05	992.95	Est point, 0 1' freeboard	992.840	0.008	0.014	0.678	0.21	0.33	0.02	0.00
B'	1.7	7.16	992.84	Estimated point	992.850	0.015	0.022	0.802	0.28	0.36	0.03	0.00
B	2.0	7.18	992.82	Thalweg	992.860	0.024	0.030	0.927	0.34	0.38	0.04	0.00
B'	2.3	7.17	992.83	Estimated point	992.870	0.034	0.038	1.051	0.40	0.39	0.05	0.00
B'	3.23	7.05	992.95	Est point, 0 1' freeboard	992.880	0.045	0.045	1.176	0.45	0.40	0.06	0.00
B	3.0	7.08	992.92		992.890	0.057	0.053	1.300	0.50	0.42	0.07	0.00
B	4.0	6.95	993.05		992.900	0.071	0.060	1.424	0.54	0.43	0.08	0.00
B	5.0	6.81	993.19	RTB	992.910	0.086	0.067	1.549	0.59	0.44	0.09	0.00
					992.920	0.102	0.075	1.673	0.63	0.45	0.10	0.00
					992.938	0.133	0.087	1.890	0.70	0.46	0.12	0.00
					992.955	0.168	0.099	2.106	0.76	0.47	0.13	0.00
					992.972	0.207	0.111	2.322	0.82	0.48	0.15	0.00
					992.980	0.249	0.123	2.538	0.88	0.49	0.17	0.00
					993.005	0.289	0.133	2.804	0.92	0.51	0.18	0.00
					993.020	0.333	0.142	3.069	0.97	0.52	0.20	0.00
					993.035	0.383	0.150	3.535	1.00	0.54	0.21	0.00
					993.050	0.439	0.156	4.000	1.03	0.55	0.23	0.00

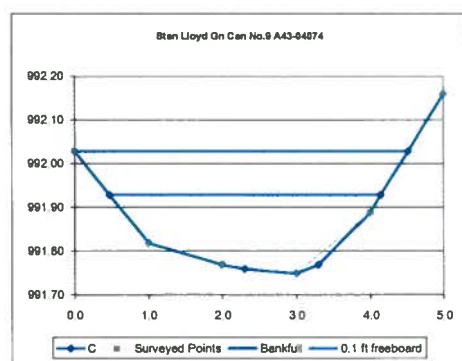
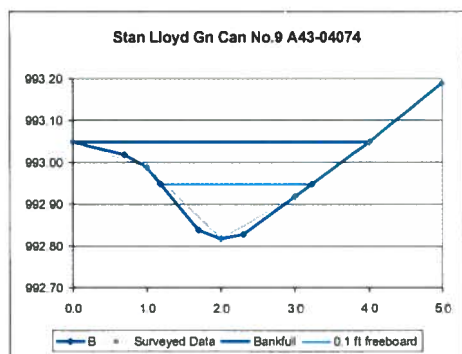
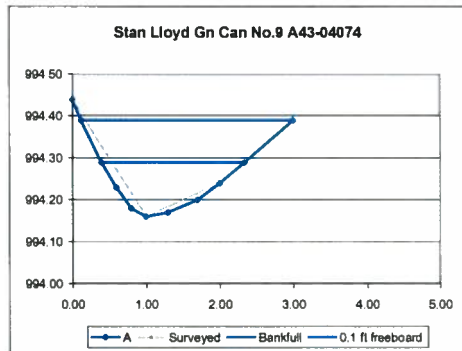
C	0.0	7.97	992.03	LTB	991.750	0.000	0.000	0.000	0.00	0.00	0.28	0.00
C'	0.48	8.07	991.93	Est point, 0 1' freeboard	991.755	0.001	0.003	0.425	0.07	0.27	0.27	0.00
C	1.0	8.18	991.82		991.760	0.004	0.006	0.850	0.12	0.30	0.01	0.00
C	2.0	8.23	991.77		991.770	0.015	0.014	1.300	0.21	0.34	0.02	0.00
C'	2.3	8.24	991.76	Estimated point	991.783	0.033	0.024	1.623	0.30	0.36	0.03	0.00
C	3.0	8.25	991.75	Thalweg	991.795	0.056	0.034	1.946	0.37	0.39	0.04	0.00
C'	3.3	8.23	991.77	Estimated point	991.808	0.082	0.043	2.269	0.44	0.40	0.06	0.00
C	4.0	8.11	991.89		991.820	0.112	0.052	2.592	0.49	0.42	0.07	0.00
C'	4.15	8.07	991.93	Est point, 0 1' freeboard	991.837	0.159	0.066	2.777	0.58	0.43	0.09	0.00
C'	4.52	7.97	992.03	Est point, elev=LTB	991.855	0.209	0.080	2.962	0.66	0.44	0.11	0.00
C	5.0	7.84	992.16	RTB	991.872	0.263	0.095	3.148	0.74	0.45	0.12	0.00
					991.890	0.320	0.109	3.333	0.81	0.46	0.14	0.00
					991.908	0.379	0.124	3.482	0.88	0.47	0.16	0.00
					991.925	0.442	0.138	3.630	0.95	0.48	0.17	0.00
					991.943	0.506	0.153	3.778	1.02	0.49	0.19	0.00
					991.960	0.574	0.167	3.927	1.08	0.50	0.21	0.00
					991.977	0.644	0.181	4.075	1.14	0.50	0.23	0.00
					991.995	0.716	0.195	4.223	1.19	0.51	0.25	0.00
					992.013	0.792	0.209	4.372	1.25	0.52	0.26	0.00
					992.030	0.869	0.223	4.520	1.31	0.52	0.28	0.00

Slope Computations

FROM	TO	D Elev (ft)	If inst. 0 ft from ditch		SLOPE
			Dist (ft)		
A	B	1.34	45.00		3.0%
B	C	1.07	55.00		1.9%
A	C	2.41	100.00		2.41%
Instrument	A	45.00			
Instrument	B	0.00			
Instrument	C	55.00			
Instrument	D	#REF!			
Instrument	E	#REF!			
Instrument	F	#REF!			

pg 3/3

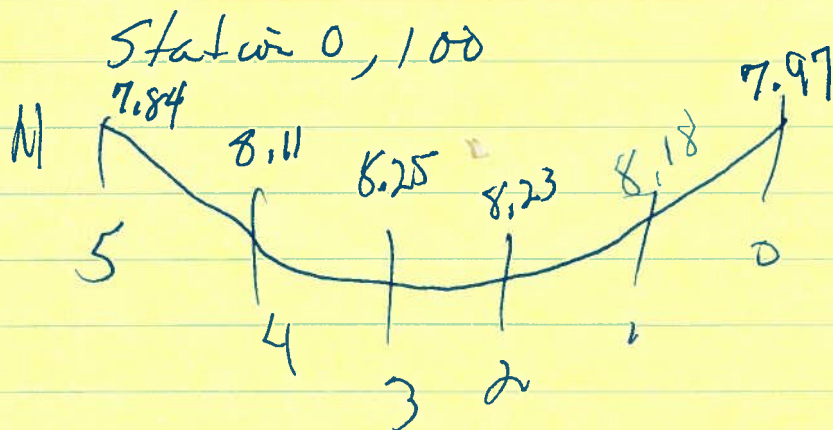
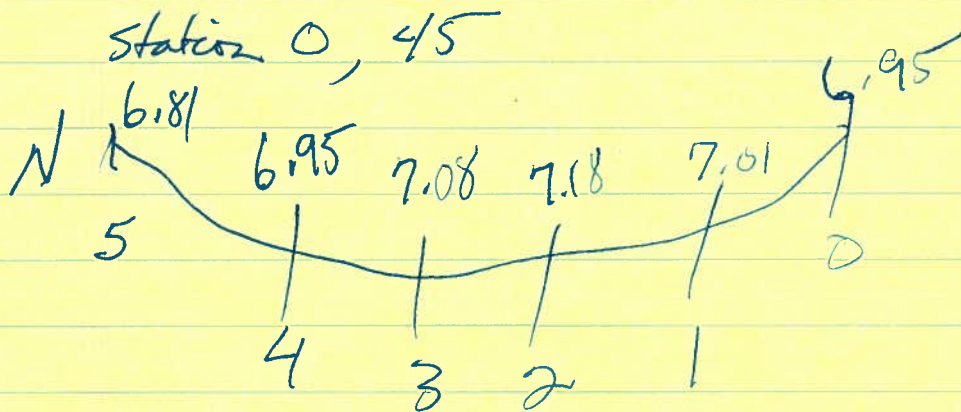
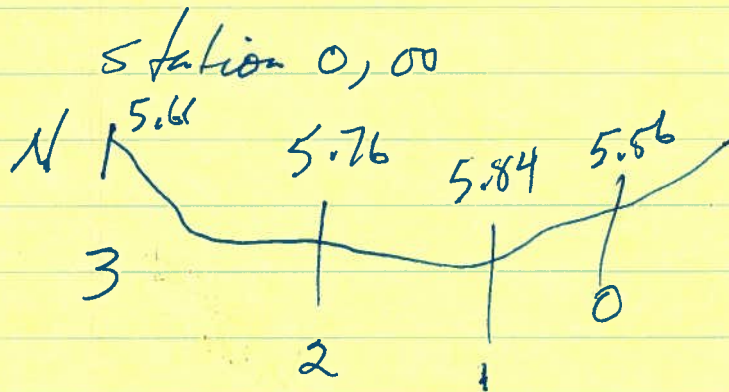
Constants:
 U=velocity
 R=hydraulic radius (A/P)
 A=area
 P=wetted perimeter
 S=Slope
 Q=flow
 Dh=hydraulic depth=A/T
 T=top width
 g=gravitational const 32.2 ft/sec²



Stan Lloyd P/U on Cam Litch Place
Spring means on So side of P/U

#9

logged as
Pia 2.
4074



Memo

RECEIVED

JAN 21 2000

Department of Water Resources
Southern Region

To: Kelly C.

From: Scott K

January 19, 2000

Re: Manning's analysis for A43-04074

Attached are the results from the two additional Manning's problems you had for us. You'll note in the comments that I didn't have a very good idea of channel conditions, so I estimated a range of likely Manning n values. If you have photos or some description of the channel condition, you and/or I can change these comments to reflect so.

My final recommendation is a combined flow for both of these two systems of 1.02 cfs plus or minus about 25 per cent. And as you've mentioned before, a little maintenance on these small ditches would go a long way to increase ditch area and capacity.

I should have sent the excel spreadsheets to you for your files. If you want to update the comments or anything else, please let me know.

File Name: A4304074 StanLloyd Gn Can9.xls
Water Right No. A43-04074
Owner: Stan Lloyd
Source/Trib: Springs/Sinks
Diversion Name: Gn Canyon ditch & springs No. 9
Location: 14S 24E 12 SE
Document Description: Stan Lloyd P/U Gn Canyon ditch place. Spring meas on So side of P/U. #9
Channel flow capacity estimates by Scott King.
Prepared By: Scott King
Date: January 2000

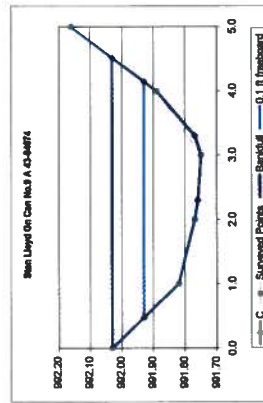
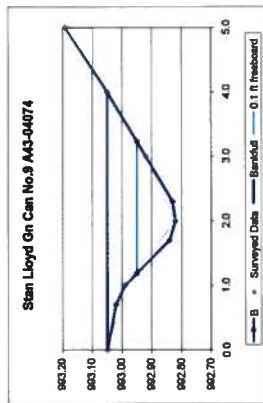
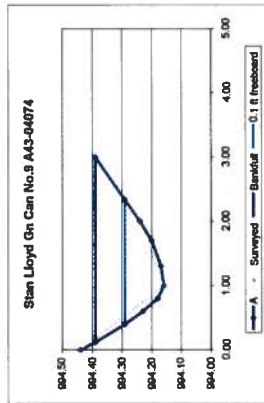
Measured Flow: n/a
Average Velocity: n/a
Slope: 0.0241 ft/ft

	Channel Area A (ft^2)	Top Width T (ft)	Maximum Depth (ft)	Hydraulic Depth D (ft)	Hydraulic Radius R (ft)	Manning's Computed Flow Rate at:			Critical Flow (cfs)
						n= 0.05 (cfs)	n= 0.065 (cfs)	n= 0.08 (cfs)	
Observed Flow--none recorded		--	--	--	--	--	--	--	
Section Avg at Bankfull	0.57	3.8	0.25	0.15	0.18	0.84	0.65	0.53	
Sect Ave at 0.1' freeboard	0.28	2.60	0.15	0.10	0.12	0.30	0.23	0.19	
Smallest Section, 0.1' fb	0.16	1.93	0.13	0.08	0.10	0.15	0.12	0.09	0.25

Comments: Mannings n assumed to be in the range of 0.05 to 0.08. Survey results provided by Kelly C., Southern Region. No photographs or description of conditions were provided with the survey data to indicate roughness. This channel is quite shallow with an average depth of 0.25 feet. Some freeboard is required, and a freeboard of 0.10 feet was selected as appropriate for this analysis.
Channel capacity is likely between 0.20 and 0.30 cfs

Important Equations:
Manning's: $U = 1.486 \cdot R^{2/3} \cdot S^{1/2}$ / ft
Froude No: $U / \text{sqrt}(g \cdot \text{Hydraulic Depth})$

AI 0.1" free/bd	sed avg	low q sect-A
depth	0.15	0.13 ft
area	0.28	0.16 ft ²
flow	0.253	0.117 cfs
velocity	0.04	0.75 fps
top width	2.60	1.930 ft
H _{yd} Depth	0.10	0.061 ft
Froude No	0.48	0.46
H _{yd} Radius	0.12	0.10 ft
Critical Flow	0.065	0.25 cfs

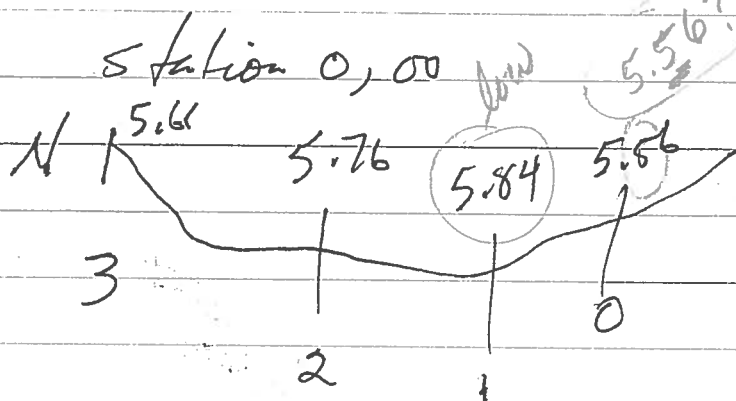


FROM		TO	D. Elav (th)	If Incl. 0 in from dist.	LOPE
A	B	A	1.34	45.00	3.0%
B	C	B	1.07	55.00	1.5%
A	C	C	2.41	100.00	2.41%
Instrument	Instrument	A	45.00		
Instrument	Instrument	B	0.00		
Instrument	Instrument	C	50.00		
Instrument	Instrument	D	#REF!		
Instrument	Instrument	E	#REF!		
Instrument	Instrument	F	#REF!		

Stan Lloyd P/U In Cam Litch Place
 Spring means on So side of P/U

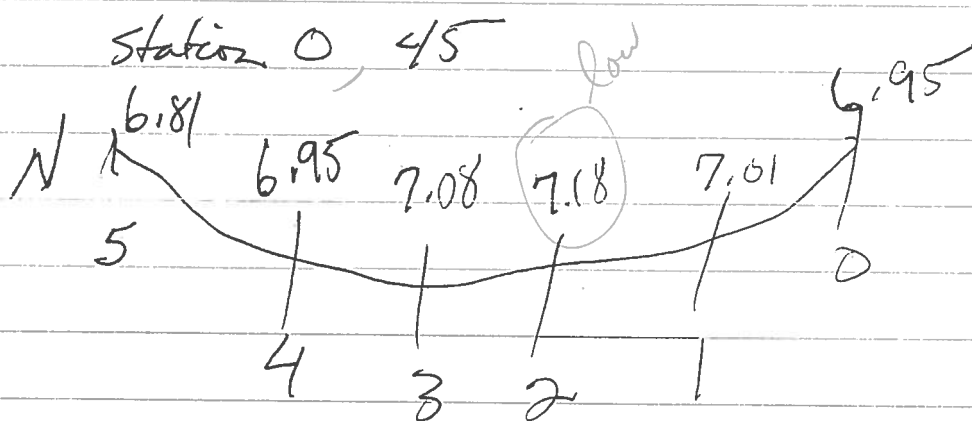
#9

logged as
 Pie 2
 4674



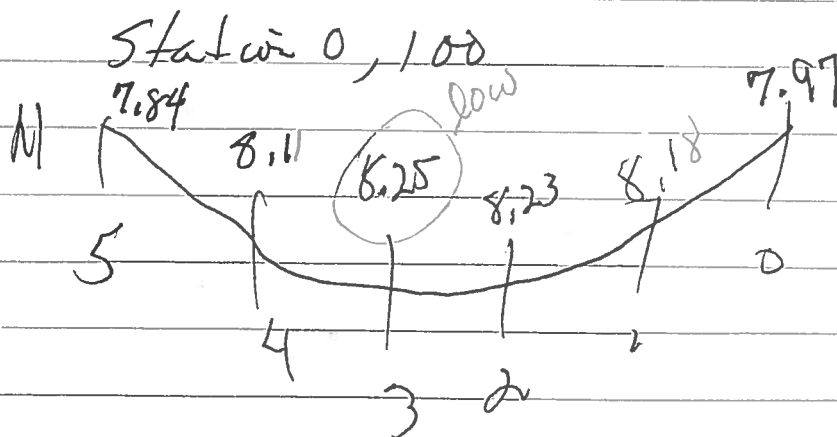
$$\Delta H = \frac{1.34'}{45} = .0298$$

$$\Delta L = 45'$$



$$\Delta H = \frac{1.07}{55} = 0.0195 \text{ slope}$$

$$\Delta L = 55$$



$$\text{TOTAL } \Delta H = \frac{2.41}{100} = .0241$$

File Name: A4304074 StanLloyd Gn Can8.xls
Water Right No. A43-04074
Owner: Stan Lloyd
Source/Trib: Springs/Sinks
Name: Gn Canyon ditch & springs No. 8
Location: 14S 24E 12 SE
Document Description: Stan Lloyd P/U Gn Canyon ditch & springs. Spring meas. N of prop. Ditch runs ESE #8
Channel flow capacity estimates by Scott King.
Prepared By: Scott King
Date: January 2000

Measured Flow: n/a
Average Velocity: n/a
Slope: 0.0598 ft/ft

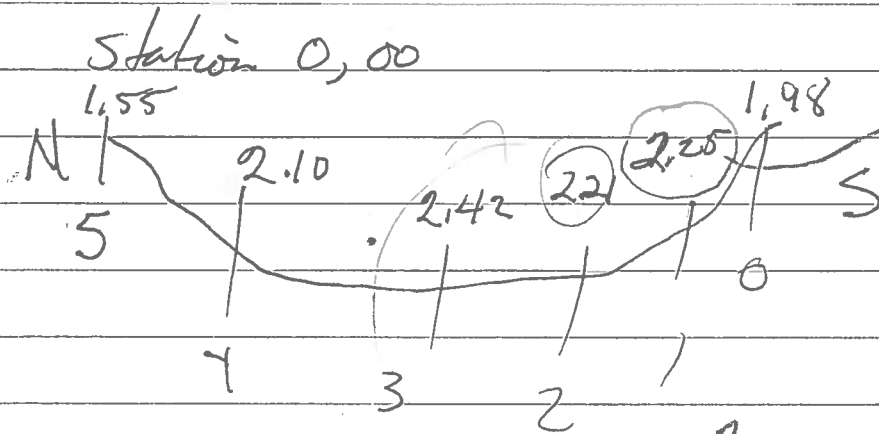
	Channel Area A (ft ²)	Top Width T (ft)	Maximum Depth (ft)	Hydraulic Depth D (ft)	Hydraulic Radius R (ft)	Manning's Computed Flow Rate at:			Critical Flow (cfs)
						n= 0.05 (cfs)	n= 0.065 (cfs)	n= 0.08 (cfs)	
Observed Flow—none recorded									
Section Avg at Bankfull	0.79	3.3	0.42	0.24	0.30	2.55	1.96	1.59	
Sect Ave at 0.1' freeboard	0.49	2.67	0.32	0.18	0.23	1.33	1.02	0.83	
Smallest Section, 0.1' fb	0.33	2.01	0.25	0.17	0.20	0.82	0.63	0.51	0.77

Comments: Mannings n assumed to be in the range of 0.05 to 0.08. Survey results provided by Kelly C., Southern Region. No photographs or description of conditions were provided with the survey data to indicate roughness. This channel is quite shallow with an average depth of 0.25 feet. Some freeboard is required, and a freeboard of 0.10 feet was selected as appropriate for this analysis.
The smallest, or "choking" section in this set is "C," the downstream one. If a Manning's n value of 0.065 is representative of conditions, then subcritical flow can be expected above section C, and critical flow at section C would pose a constraint with a flow of 0.77 cfs at 0.10 ft freeboard.

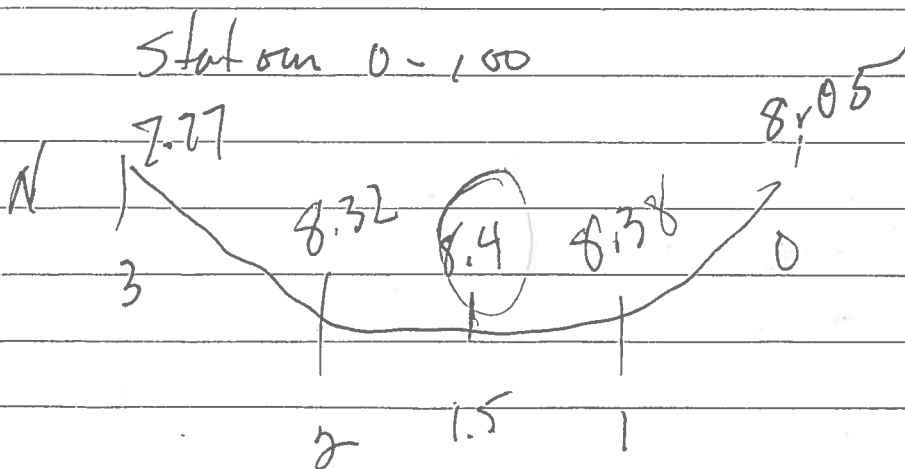
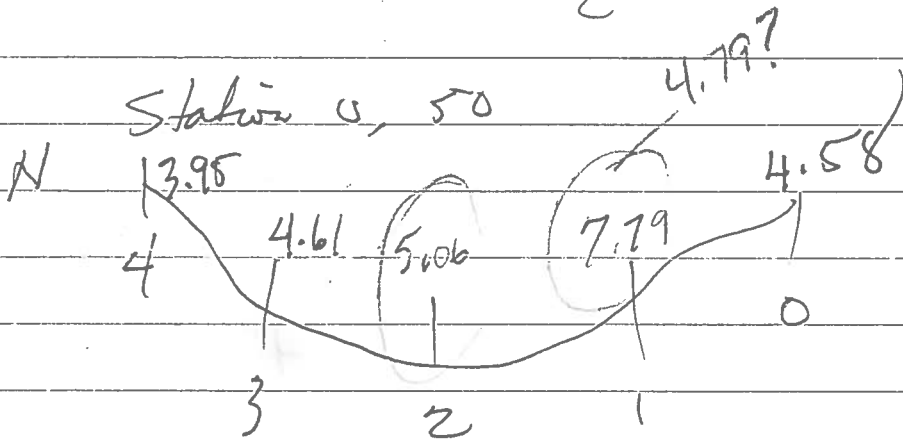
Stan Lloyd P/U Gm Canyon Litch Springs

Spring meas. N of Prop. Litch runs E 58 (#8)

logged as
pic 1 N45
file 4074



these 2
Could this be wrong
Could they be reversed
I reversed them
gh



CLAIM # A43-04074
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 1

THIS PHOTO SET SHOWS THE SPRING DEVELOPMENT NORTH OF THE PLACE OF USE. THE DIVERSION IS THE CHANNEL (DITCH) DUG ACROSS THE SLEW AND INTO A DITCH THAT RUNS ALONG THE NORTHEAST SIDE OF THE SLEW AREA. THIS SYSTEM IRRIGATES GROUND ALONG THE NORTHEAST SIDE OF THE P/U. YOU ARE LOOKING NORTHEAST ON THE LEFT TO EAST SOUTHEAST ON THE RIGHT. THE GROUND SHOWN IN THE FOREGROUND IS NORTH OF THE P/U COVERED BY THE CLAIM.

MEASUREMENT LOCATION

PROPEERTY LINE



CLAIM # A43-04074
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 2

THIS PHOTO SET IS LOOKING EAST ON THE RIGHT TO NORTHEAST ON THE LEFT AND SHOWS
THE DITCH FROM THE SOUTHWEST SPRING.

DITCH FROM NORTHERN
DIVERSION

CENTRAL DIVISION
FENCE

GREEN CANYON
DITCH

