

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: A43-04072A
Date Received: 6/15/1989
Receipt No: X777777
Received By: _____

AMENDED

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

AMENDED

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

2. Date of Priority: APR 1, 1968

3. Source: UNNAMED STREAMS Trib. to: SINKS

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
14S	25E	18	NE	SE	SW		CASSIA
			NW	NW	SE		CASSIA
			SE	SE	SE		CASSIA
		19	NW	SW	NW		CASSIA

5. Description of diverting works:
OPEN DITCHES

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/01	09/15	0.500		
STOCKWATER	01/01	12/31	0.030		

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

8. Total consumptive use is 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	25E	17	NE		SW		IRR	3.0
			NW		SW		IRR	40.0
			SW		SW		IRR	40.0
			SW		SW		STOCK	
			Section Acres					83.0
		18	NE		SW		STOCK	
			NW		SW		STOCK	
			SE		SW		IRR	10.0
			NE		SE		IRR	40.0
			NE		SE		STOCK	
			NW		SE		IRR	30.0
			NW		SE		STOCK	
			SW		SE		IRR	40.0
			SW		SE		STOCK	
			SE		SE		IRR	40.0
			SE		SE		STOCK	
			Section Acres					160.0
			Total Acres					243.0

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:
A43-04073, A43-02529, A43-10504

14. Remarks:

THIS SPRING IS SOMETIMES AKA LOCALLY AS LLOYD SPRING AND IS NOT TO BE CONFUSED WITH THE USGS NAMED LLOYD SPRING IN SEC. 24, FILED UNDER A43-04073.

EXPANSION FILED UNDER A43-10504.

CLAIM SPLIT TO ISOLATE THE DOMESTIC PORTION WHICH HAS ITS OWN DELIVERY SYSTEM AND UNIQUE PRIORITY DATE. KKC 10-29-99

CLAIM IS AMENDED TO IDENTIFY THE UNNAMED STREAM SOURCES THAT WERE PERFECTED BY 1968 AND TO EXCLUDE THE SOURCES PERFECTED IN 1892. THE PLACE OF USE WAS AMENDED TO ADD THE SWSW SEC 17 PREVIOUSLY CLAIMED UNDER A43-10504. NO ADDITIONAL FEES NEEDED FOR THESE ACRES. KKC 10-29-99

15. Basis of Claim: BENEFICIAL USE

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): Fr. Stanley Lloyd Date: 12/20/99

Date: _____

State of Idaho)
County of Twin Falls) SS.

Subscribed and sworn (or affirmed) before me this 20th day
of Dec 19 99
Kelly K. Christensen
Notary Public

Seal

Residing at *Twin Falls
My Commission Expires 3-11-04



State of Idaho

DEPARTMENT OF WATER RESOURCES

1341 Fillmore Street, Suite 200, Twin Falls, ID 83301-3380

Phone: (208) 736-3033 FAX: (208) 736-3037

SOUTHERN REGION

September 13, 1999

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

STANLEY LLOYD
HC61 BOX 1510
ELBA ID 83326

RE: SPLIT AND AMENDMENT OF A43-04072, AND AMENDMENT OF A43-04073
PLACE OF USE DISCUSSION

Dear Stan

Enclosed are the following documents.

Claims

A43-04072A; the irrigation portion of the original claim (currently the valid claim).

For your records

A43-04072B; the domestic portion of the original claim (also currently valid).

For your records

A43-04072A; **AMENDED**, for your review and signature if correct

Return to IDWR

A43-04072A; **AMENDED**, copy for your records if you sign the above form.

For your records

A43-04073; **AMENDED**, for your review and signature if correct

Return to IDWR

A43-04072A; **AMENDED**, copy for your records if you sign the above form.

For your records

Scanned copy of a portion of CFSA aerial photo P 30 dated 1978.

AERIAL PHOTO DISCUSSION

In reviewing another system I ran across a 1978 aerial photo that included your property. In reviewing the map I noticed a couple of areas of concern in relation to your claims and the place of use as identified on the photo.

The ASCS (now CFSA) did not identify a portion of the S $\frac{1}{2}$ SE $\frac{1}{4}$ of Sec 18 and the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec 17 as part of the crop land. I could not discern any physical features of a ditch system paralleling the south property line in the S $\frac{1}{2}$ SE $\frac{1}{4}$ of Sec 18 nor does the ground north of the fence line have a discernable difference in appearance to the ground south of the fence line. The ground in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec 17 does have a slight difference in appearance than the ground to the south but when comparing this photo with the 1987 NAPP photo, the characteristics of the ditch visible in the NAPP photo do not correspond with any features in the 1978 photo. Please provide me with an explanation for these discrepancies.

CLAIMS DISCUSSION

Based upon our meeting at your home on 10-27-1999 I have taken the following actions on your claims.

I split A43-04072 into the irrigation system (now A43-04072A) and the domestic system (now under A43-04072B). A43-04072 is no longer valid. The A and B portions are the current valid claims.

I have enclosed an amended version of A43-04072A (and a copy for your records). Please carefully review all elements of this claim and if it is correct, please sign the claim form and have your signature notarized. Return the signed claim to the department and keep the copy for your records.

I have enclosed an amended version of A43-04073 (and a copy for your records). Please carefully review all elements of this claim also claim and if it is correct, please sign the claim form and have your signature notarized. Return the signed claim to the department and keep the copy for your records.

Please note that the claims as amended do not necessarily represent what my recommendation will be for these claims. One or more elements of these claims may have to be changed based upon the information that is available when I complete my review.

Sincerely

Kelly K Christensen
Sr Water Resource Agent

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IN AND FOR THE COUNTY OF TWIN FALLS

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**COPY FOR
YOUR FILES**

**NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW**

**COPY FOR
YOUR FILES**

1. Name: F STANLEY LLOYD
Address: HC 61 BOX 1510
ELBA ID

208-638-5543

83326

2. Date of Priority: JUN 1, 1892

3. Source: SPRING

Trib. to: SINKS

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
14S	25E	19	NE	NE	NW		CASSIA

5. Description of diverting works:
OPEN DITCHES

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/01	09/15	0.500		
STOCKWATER	01/01	12/31	0.030		

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

A.F.A.

8. Total consumptive use is

Acre Feet Per Annum.

9. Non-irrigation uses:
S/100 RANGE

10. Place of Use:

Township	Range	Section	1/4 of	1/4 of	Lot	Use	Acres
14S	25E	17	NE	SW		IRR	3.0
			NW	SW		IRR	40.0

10. Place of Use: Continued

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
					Section Acres	43.0
		18	NE	SW	STOCK	
			NW	SW	STOCK	
			SE	SW	IRR	10.0
			NE	SE	IRR	40.0
			NE	SE	STOCK	
			NW	SE	IRR	30.0
			NW	SE	STOCK	
			SW	SE	IRR	40.0
			SW	SE	STOCK	
			SE	SE	IRR	40.0
			SE	SE	STOCK	
					Section Acres	160.0
					Total Acres	203.0

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:
A43-04073, A43-02529, A43-10504

14. Remarks:
THIS SPRING IS SOMETIMES AKA LOCALLY AS LLOYD SPRING AND IS NOT
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CLAIM SPLIT TO ISOLATE THE DOMESTIC PORTION WHICH HAS ITS OWN
DELIVERY SYSTEM AND UNIQUE PRIORITY DATE. KKC 10-29-99

15. Basis of Claim: BENEFICIAL USE

10/06/2000

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

RIGHT NUMBER: 43-4072A

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

SOURCE: UNNAMED STREAM TRIBUTARY: SINKS

VERIFIED BY *KKC*
10-10-00

QUANTITY: 0.5 CFS

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

THIS RIGHT WHEN COMBINED WITH RIGHT NO. [LIST] SHALL PROVIDE NO MORE THAN .02 CFS PER ACRE. RIGHTS 43-2529, 43-4072A, 43-4073, and 43-10504.

PRIORITY DATE: 04/01/1968

POINT OF DIVERSION:	T14S R25E S18	NESEW	Within CASSIA County
	T14S R25E S18	NWNWSE	Within CASSIA County
	T14S R25E S18	NWNWSE	Within CASSIA County
	T14S R25E S18	SESESE	Within CASSIA County
	T14S R25E S19 LOT 2	NWSWNW	Within CASSIA County

PURPOSE AND PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
STOCKWATER	01-01 12-31	0.03 CFS
IRRIGATION	04-01 10-31	0.50 CFS

PLACE OF USE:

IRRIGATION Within CASSIA County			
T14S R25E S17	NESW	3.9	T14S R25E S17 NESW 38
T14S R25E S17	SWSW	33	T14S R25E S18 NESE 40
T14S R25E S18	NWSE	26	T14S R25E S18 SESE 38
T14S R25E S18	SWSE	37	T14S R25E S18 SESW 10
STOCKWATER Within CASSIA County			
T14S R25E S17	SWSW		T14S R25E S18 NESW
T14S R25E S18	NWSW		T14S R25E S18 NESE
T14S R25E S18	NWSE		T14S R25E S18 SWSE
T14S R25E S18	SESE		
225.9 ACRES TOTAL			

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION OF A COMBINED TOTAL OF 225.9 ACRES IN A SINGLE IRRIGATION SEASON. COMBINED RIGHT NOS. 43-2529, 43-4072A, 43-4073, and 43-10504.

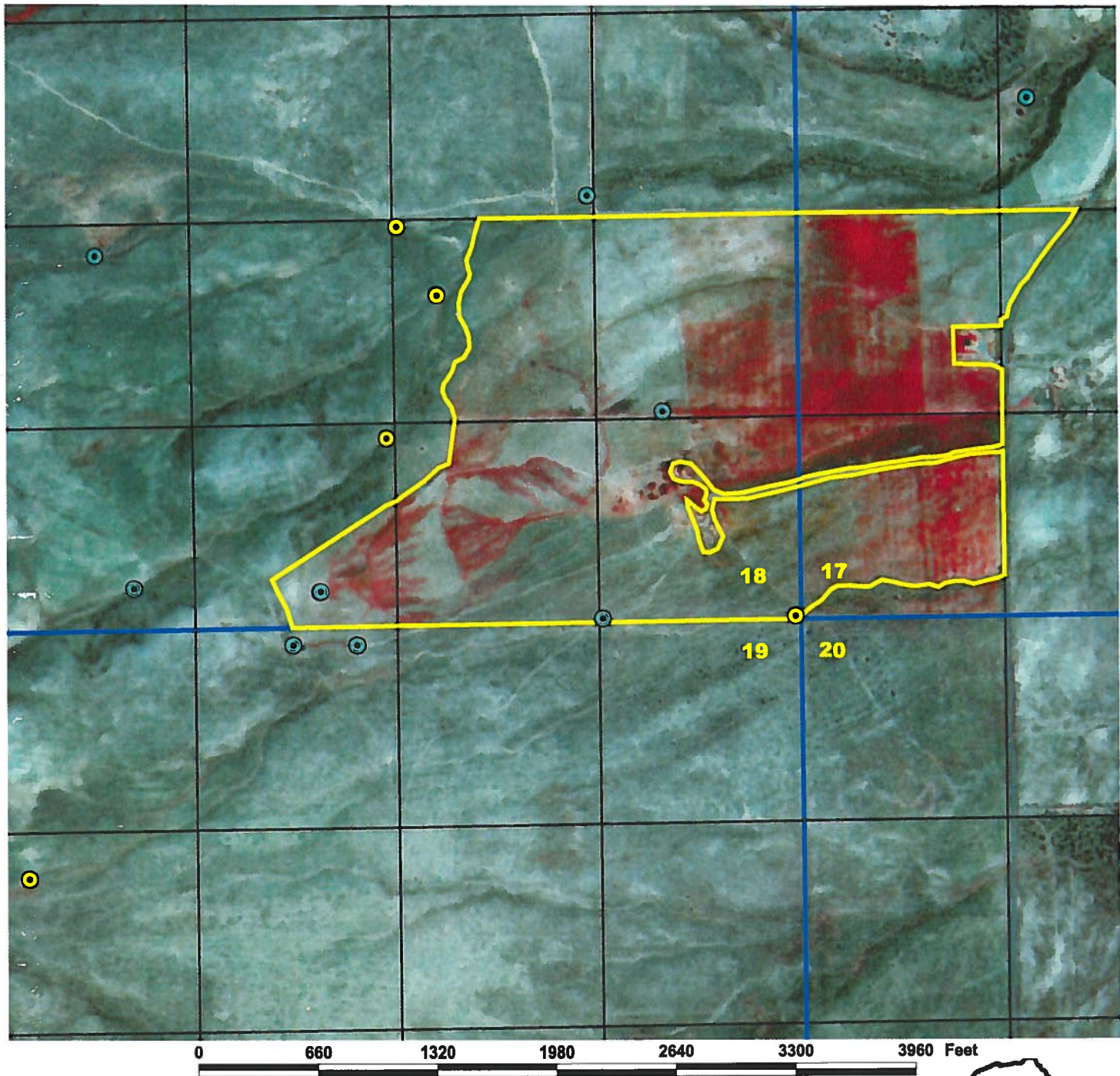
OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

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.

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

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

RECOMMENDED PLACE OF USE FOR 43-4072A



PLACE OF USE

TWP 14S, RNG 27E, SEC 18

Data entry on October 5, 2000

● RECOMMENDED POINT OF DIVERSION

RECOMMENDED PLACE OF USE

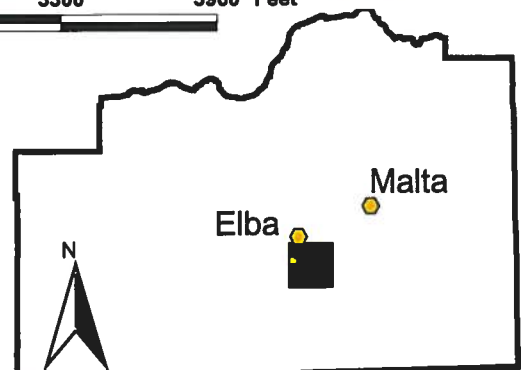
SECTION LINES

QUARTER/QUARTER LINES

GIS PLACE OF USE PRESENTATION

1987/1988 NAPP AERIAL PHOTOGRAPHY

DATA ENTRY BY KELLY K CHRISTENSEN



EVIDENCE OF PRIORITY FOR A43-04072, A43-04073 and A43-10504

During my first field examination of the place of use covered by the claims listed above on 07-28-1994, I found that the existing system did not fit well with the physical characteristics of the existing system. I also found several delivery systems that were not claimed. I asked Stan Lloyd about them and asked him how he wanted to deal with them. He indicated that he wanted them to be part of a claim. He stated that the system as developed consists of water that is primarily available during spring runoff, spring water that is diverted down stream from the actual spring sources, and ground water. Often a portion of the place of use is left dry once the spring runoff has ended. My understanding is that virtually the entire place of use is irrigated at least once during a normal irrigation season. During drought years water is consolidated on the best ground.

During our conversation he indicated that the surface water system was fully developed by 1968. A portion of the development was also claimed under A43-10504 as an enlargement claim. As the 1968 date is prior to the mandatory permit statute for surface water, the surface developments would be better represented as a beneficial use. Claim A43-10504 is still an enlargement claim but for groundwater only that was originally developed under A43-02529.

Rather than have him submit additional evidence of priority affidavits I elected to interview him in order to establish the required amendments and to be able to identify each point of diversion with their original development. There is an original affidavit in A43-04072 that addresses some of the elements of the historic use developed by his grandfather and father.

I interviewed Stan on 09-08-1999 and again on 10-27,1999. I used a GIS map titled **INTERVIEW MAP** to specifically identify each point of diversion and when it was developed. Between the September and October interviews I created a **PRELIMINARY SUMMARY** dated 10-22-99 on yellow paper. The preliminary summary identifies the numbered points of diversion with their respective legal descriptions.

A43-04073

This claim is to be amended to identify the original development only. The claimed priority date is June 1, 1892. I am accepting this date based upon the affidavit and my conversations with Stan Lloyd.

He indicated that the historical development occurred in stages. The first development occurred approximately in 1892 and consisted of the development of three different drainages that were roughly tied into a common ditch delivery system. They were labeled 6, 7, and 8 on the map. Stan indicated that his grand parents developed the delivery systems.

The historical place of use is not clear but the water can now be delivered to any location within the found irrigated place of use. I will address the place of use later in the analysis.

Point of diversion # 6 catches runoff from snow in the spring and rains during the summer. There is no steady spring source for water using this ditch. This system enters the claimed place of use at the western most point of the place of use, which is also the

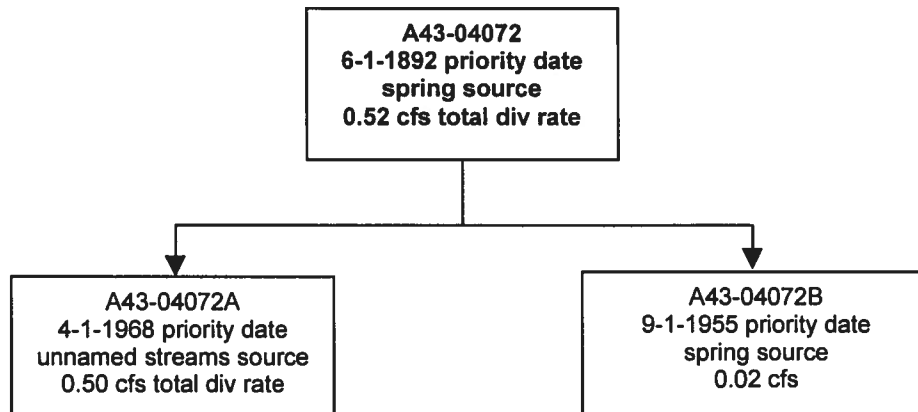
highest elevation point within the irrigated place of use. Water if available in sufficient quantities can reach all areas of the place of use through the various contour ditches.

Diversions 7 and 8 connect two different drainages and then deliver the water to the place of use. The water source for diversion 7 is a spring located approximately 340 feet west of the point of diversion. This spring normally runs year round, although the flows are generally minimal in the fall. The water source for diversion 8 is also a spring that Stan identified as Lloyd spring. This spring does not always flow enough water to irrigate with in the latter part of the irrigation season. The delivery ditch enters the irrigated place of use approximately 700 feet east of the western boundary of the irrigated place of use. Water from this system can reach all but the ground west of the ditch.

A43-04072

This claim originally identified a spring as the source for irrigation, stockwater and domestic uses. The claimed priority date was June 1, 1892.

This claim is to be amended to identify a group of surface water diversions tied into one delivery system. The claim also includes a domestic use that was developed from the spring. I am splitting the domestic use off from this claim as it represents a separate use and delivery system and at a different priority date. As the changes are all junior to the original claim, a new claim is not deemed necessary.



A43-04072A

In 1963 Stan Lloyd started to develop additional runoff sources and to add contour ditches to augment the historic system. Stan also submitted a short affidavit (in file A43-10504) dated 2-26-1992 that is that refers to the development. The system has again changed through the development of 43-07091. This is a groundwater right that was perfected after the commencement of the adjudication and is therefore not claimed in the adjudication. He indicated that the development of the ditch system by 1968 would allow the irrigation of the ground covered under the license.

Five different points of diversion were identified as appurtenant to this right. The three points of diversion in the NWSE of sec 18 were assigned numbers 1, 2, and 3. They collect spring runoff and rain runoff and deliver it to the place of use in the north ½ of the irrigated place of use.

Point of diversion numbered 4 diverts water from the channel that carries the Lloyd Spring water. This is the same channel that point of diversion # 7 diverts from which is claimed under 43-04073. This ditch system delivers water into the ditch from point of diversion # 6 (also claimed under 43-04073) which allows water to reach the entire place of use.

The last point of diversion (# 5) diverts spring runoff and also captures water coming from the place of use to the northwest. All of these points of diversion are inter-related through the contour ditch system and therefore I am recommending them within one claim.

A43-04072B

The spring was developed by constructing a small pond and piping the water to the original farmstead located within the SESE of sec 18. The water was used for culinary purposes and to water the yard and orchard. The irrigation portion was also supplemented through the ditch system. In 1988 the domestic in-house use was transferred to Stan's new home located in the NWSW of sec 17. A transfer was not filed. I have discussed this with Stan and I expect him to file a transfer after the claim has been split from the irrigation and stockwater uses.

A43-10504

This right was originally claimed as an enlargement right and included many of the original claimed surface water sources as well as the well claimed under A43-02529. As the surface water sources are being recognized as being developed by 1968 they are all being recognized as a beneficial use under the other two rights. This leaves the groundwater. The motor and pump have remained the same but as the ditch system was enlarged in the S½SE sec 18 and SWSW sec 17 under A43-04072A. The well is open discharge and the water enters the contour ditch system as described under the surface water sources. This allows the well water to be able to reach the entire place of use through one contour ditch or another.

A43-2529

This right is a licensed groundwater right that uses the existing ditch system for delivery purposes. The current delivery system can physically reach all of the place of use. This right was licensed for 111 acres and is now being recommended for those 111 acres within the PP/U of 225.9 acres. A43-10504 is an enlargement of this right for the balance of the PP/U or 114.9 acres. The system capacity becomes the limiting factor when calculating volume limits. (see attached land listing for calculations.)

PREPARED BY: Kelly K Christensen

October 28, 1999

Modified 10-10-2000

43-04072, 04073 & 10504 system

NOTES:

was the permitted P/U
irrigated prior to that
system?
license 43-7091 expires
on NE portion of P/U.
Proof filed 1990. Not part of
ADJ

- ① P/Ds in the NWSE Sec 18 are not part of any claim.
- ② P/D SESW Sec 18 not claimed
- ③ P/D in SWNW Sec 19 not claimed under any Beneficial use claim.

spring
Source
only

43-04072 is from spring @ SW corner of the P/U. Flow rate cannot ~~adequately~~ be beneficially used on the ground that it physically can reach as an independent source.
ir claimed rate = 0.50 cfs or 0.0025 cfs/Acre on the claimed 203 acres. P/U claim is in conflict with a portion of 43-10504
43-10504 claimed as an enlargement right of the springs, unnamed streams, & a well of Sec 18
P/U includes the southern portion of SE 1/4 and the W 1/2 of SW 1/4 Sec 17. What was the surveyed ditches & pipe lines that added New Acres?

43-4073 source indicates Lloyd Spring. Actual Source is unnamed stream. ? on P/D claimed in NENE. When was it developed?

Oct. 27, 1999

Green Canyon System. Notes on Map

Home place.

the 5 P/D's identified are correct for 4072
and the P/U is also OK

4073 1892 priority system

was the 3 P/D's using the ditch system
shown on GIS & then old system drawn
by Stan. Water could flow east of ditch
but normally not enough water was available

Need to split out domestic use (1955
priority) split from 4072 stockwater to
stay with irr.

then need transfer to chg P/U.
1988 dom shifted to current home.

Preliminary Summary

10-22-99

4072

Priority date 4-1-1968

Kelly K. Christensen

Source: Unnamed Streams.

Six Diversions

Sec 18 NWNWSE 1.

#6 = spring development

NWNWSE 2.

small dike with discharge

SWNWSE 3.

returning to natural channel
which is then diverted

SESESE 5.

Sec 19 NWSWNW 4.

approximately 300 ft down stream

The stored water cannot be
delivered.

P/U is virtually all irrigated ground (when enough water
is available).

4073

Priority date 1892.

Source Unnamed Streams

Sec 18 SE SWSW 6

Sec 19 NENE NW 7) approx 130 ft apart

Sec 19 NENE NW 8

Place of use excludes ground east of old
homestead. Also the ground generally south, south
west of homestead. NW SW of Sec 17 also not
part of original P/U.

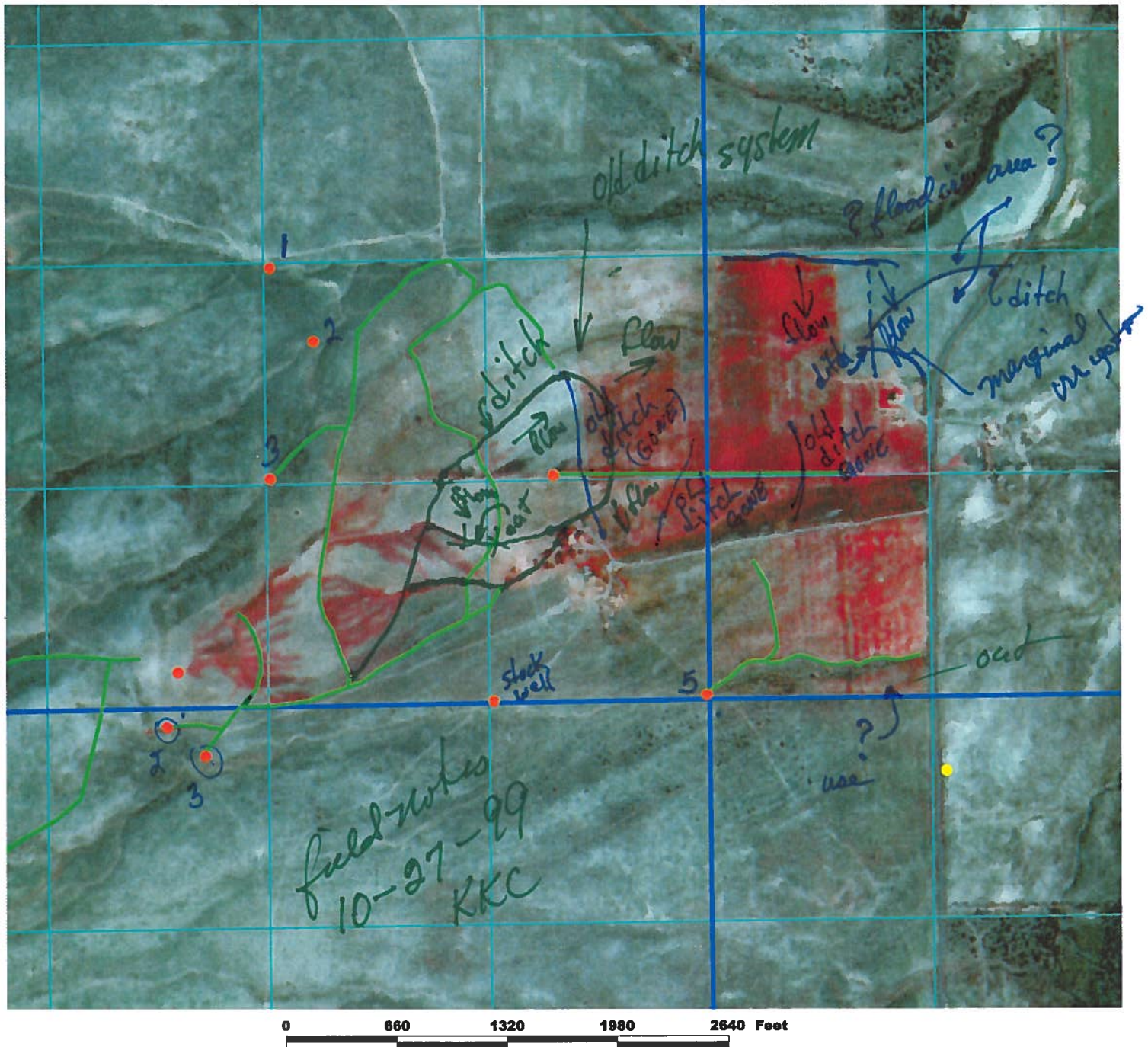
NEED to DOCUMENT DOMESTIC USE

10504: Expansion claim for GW system. Utilizing
the existing ditch system developed in 1968 GW from the
P/D in Sec 18 SESESW (43-02529) has been utilized over
the balance of the property. (NOT IN CRITICAL GW AREA)
see map for additional questions.

IDAHO DEPARTMENT OF WATER RESOURCES

STAN LLOYD PROPERTY

43-10504



TWP 14S, RNG 27E, SEC 18

JPEG LAYOUT CREATED _____

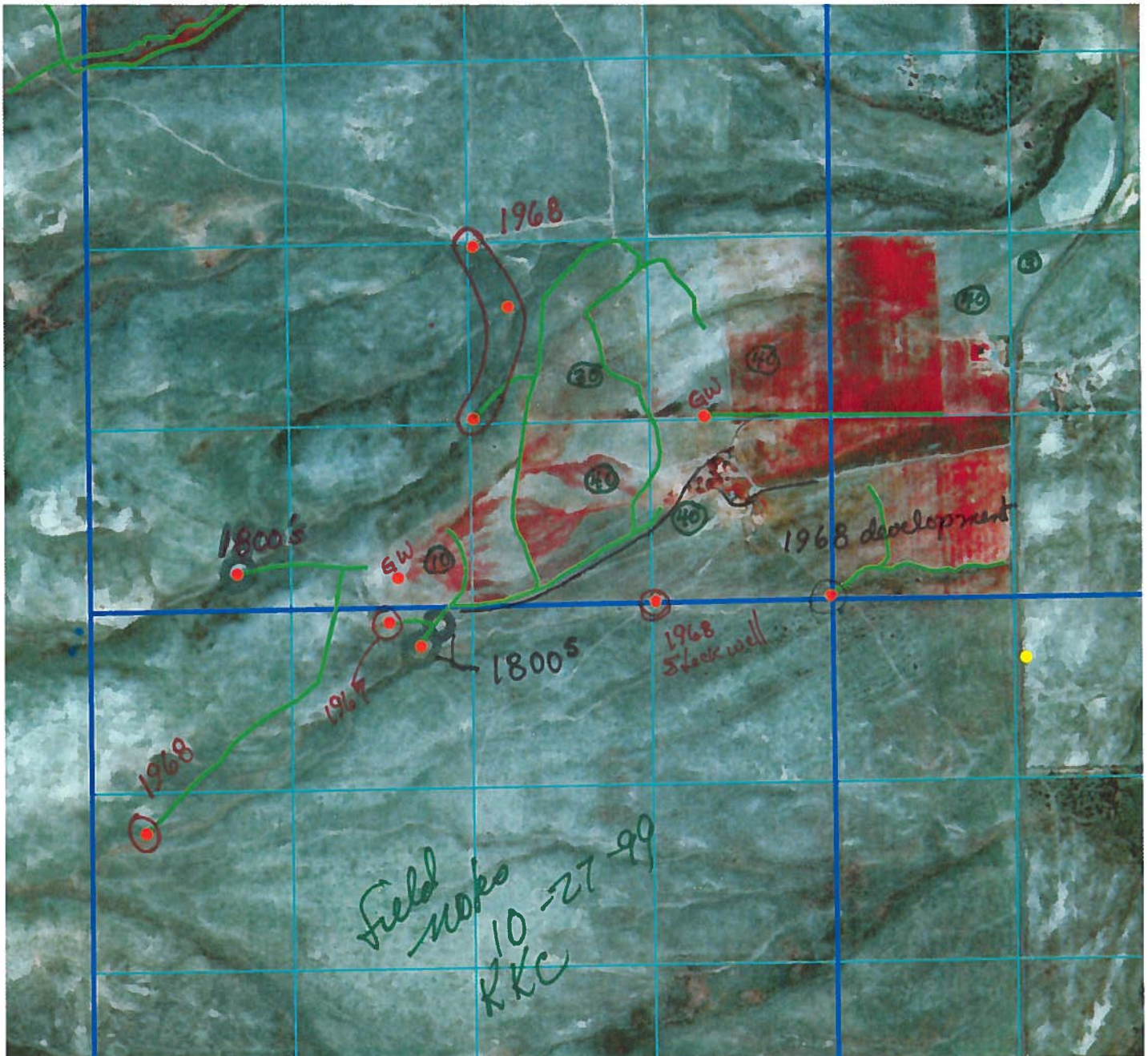
GIS PLACE OF USE PRESENTATION
1987 AND/OR 1988 NAPP PHOTOGRAPHY
DATA ENTRY BY KELLY K CHRISTENSEN

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



IDAHO DEPARTMENT OF WATER RESOURCES

STAN LLOYD PROPERTY



0 660 1320 1980 2640 Feet

7042

TWP 14S, RNG 25E, SEC 17 & 18

JPEG LAYOUT CREATED _____

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.



9-8-99

10-27-99

INTERVIEW MAP

Map used during
the interviews with

Stan Lloyd identifying
when each P/D
was originally
developed.

when were
these P/Ds
Developed.

irr? west of ditch

date of
Development?

02529
well
10504

well

only with
1970?

Stock
well

10504
04073

When was
this P/D developed?

Ditch
in for
20+ yrs

Spring
10504
4072

10504
04073

Date of Development?

field notes
made 9-8-99

KKC

Field notes in Blue

LLOYD
SPRING
10504



State of Idaho

DEPARTMENT OF WATER RESOURCES

1341 Fillmore Street, Suite 200, Twin Falls, ID 83301-3380

Phone: (208) 736-3033 FAX: (208) 736-3037

SOUTHERN REGION

September 13, 1999

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

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HC61 BOX 1510
ELBA ID 83326

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For your records

Scanned copy of a portion of CFSA aerial photo P 30 dated 1978.

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CLAIMS DISCUSSION

Based upon our meeting at your home on 10-27-1999 I have taken the following actions on your claims.

I split A43-04072 into the irrigation system (now A43-04072A) and the domestic system (now under A43-04072B). A43-04072 is no longer valid. The A and B portions are the current valid claims.

I have enclosed an amended version of A43-04072A (and a copy for your records). Please carefully review all elements of this claim and if it is correct, please sign the claim form and have your signature notarized. Return the signed claim to the department and keep the copy for your records.

I have enclosed an amended version of A43-04073 (and a copy for your records). Please carefully review all elements of this claim also claim and if it is correct, please sign the claim form and have your signature notarized. Return the signed claim to the department and keep the copy for your records.

Please note that the claims as amended do not necessarily represent what my recommendation will be for these claims. One or more elements of these claims may have to be changed based upon the information that is available when I complete my review.

Sincerely

Kelly K Christensen
Sr Water Resource Agent

MANNING EQUATION CHANNEL CAPACITY RESULTS

09-28-2000

4072A

Sec 18 NWNWSE

File Number: A43-04073

Claimant: STAN LLOYD

Channel measured: #8

Date of measurement: 08/02/1994

Measurement location:

NORTHERN AND WESTERN MOST POD

Calculation prepared by: SCOTT KING

Comments about the measurement:

ANALYSIS PERFORMED FOR SURVEY DATA SUPPLIED
BY KELLY CHRISTENSEN OF SOUTHERN REGION.

ASSUMPTION: 0.10 FOOT FREEBOARD FROM LOW BANK TO WSE.

The results of the calculation are:

The length of the channel measured is 100 feet.

The upstream and downstream rod readings are 6.03 and 7.45 feet.

The channel cross section is 0.79 ft-sq.

The wetted perimeter is 3.21 feet.

The hydraulic radius is 0.24 feet.

The slope is 0.0142

The roughness coefficient is 0.0600

The flow velocity is 1.158 ft/sec.

The rate of flow is 0.91 cfs.

CROSS SECTION NUMBER 1

For File Number A43-04073 for the #8

Number	Rod Reading	Water Depth	Distance
1	6.03	0.00	0.35
2	6.35	0.32	1.00
3	6.57	0.54	2.00
4	6.19	0.16	3.00
5	6.03	0.00	3.62

The area for this cross section is 0.93 square feet
and the wetted perimeter is 3.46 feet.

CROSS SECTION NUMBER 2

For File Number A43-04073 for the #8

Number	Rod Reading	Water Depth	Distance
1	6.82	0.00	0.68
2	6.98	0.16	1.00
3	7.29	0.47	2.00
4	7.02	0.20	3.00
5	6.82	0.00	3.67

The area for this cross section is 0.74 square feet
and the wetted perimeter is 3.14 feet.

CROSS SECTION NUMBER 3

For File Number A43-04073 for the #8

Number	Rod Reading	Water Depth	Distance
1	7.45	0.00	0.76
2	7.55	0.10	1.00
3	7.93	0.48	2.00
4	7.62	0.17	3.00
5	7.45	0.00	3.63

The area for this cross section is 0.68 square feet
and the wetted perimeter is 3.03 feet.

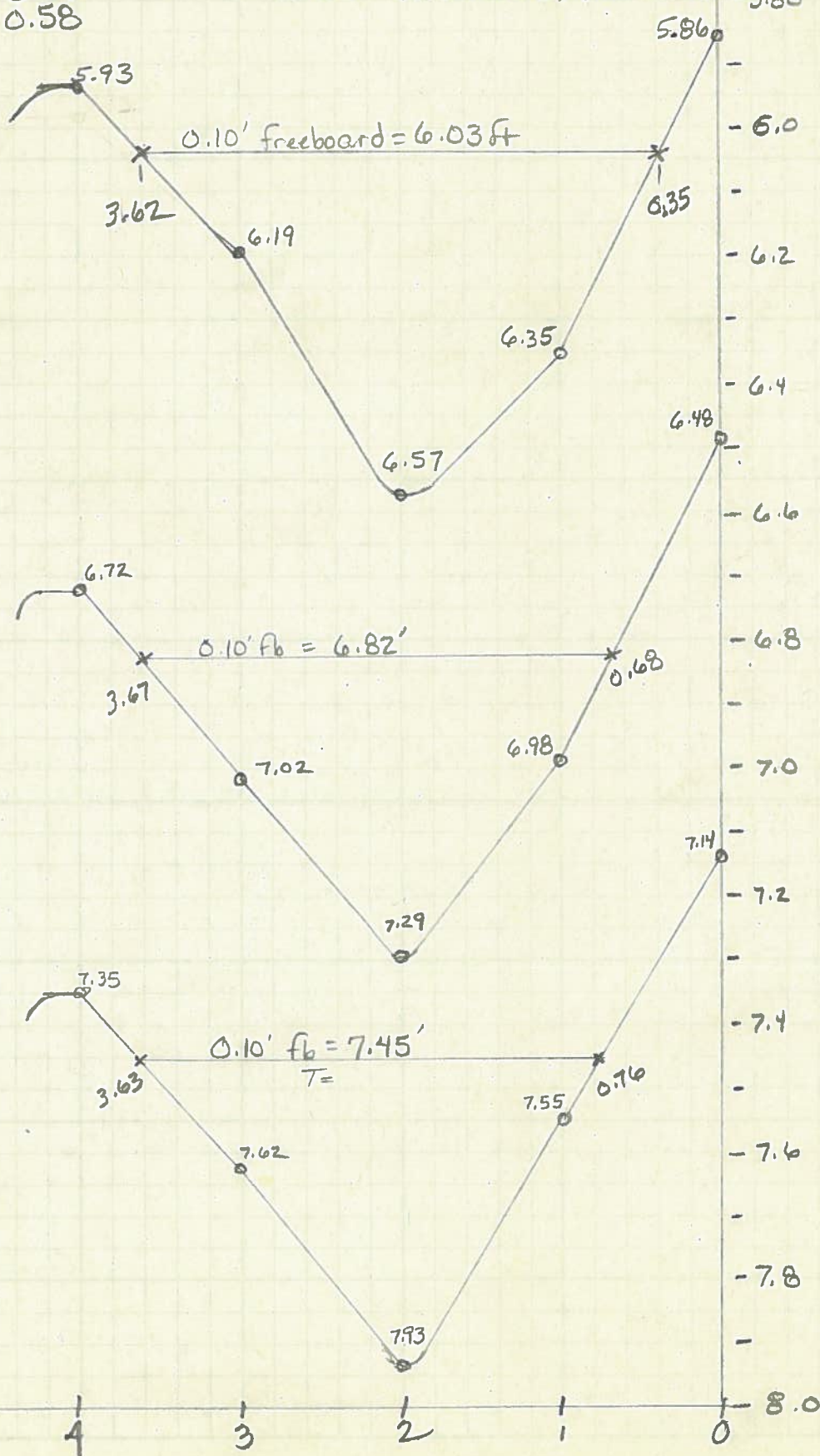
Station
0
50
100

Bankfull Depth
0.64
0.57
0.58

Slope

Channel: $(7.93 - 6.57) \div 100 = .014$

WS : $(7.45 - 6.03) \div 100 = .014$



22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Check for critical flow at constraining section, #3

$$A = 0.68 \text{ ft}^2$$

$$Q = 0.91 \text{ cfs}$$

$$V = \frac{Q}{A} = 1.34 \text{ fps}$$

$$T = 2.87 \text{ ft}$$

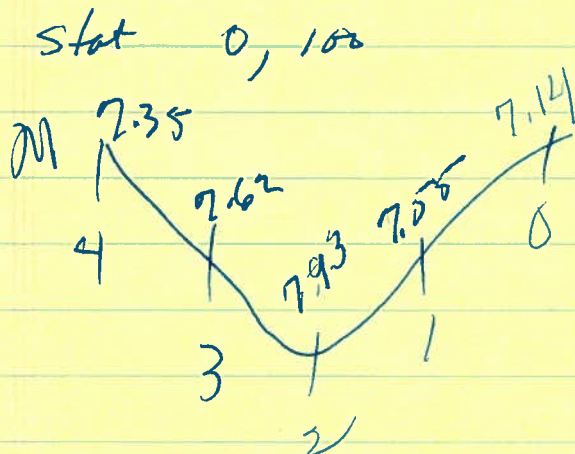
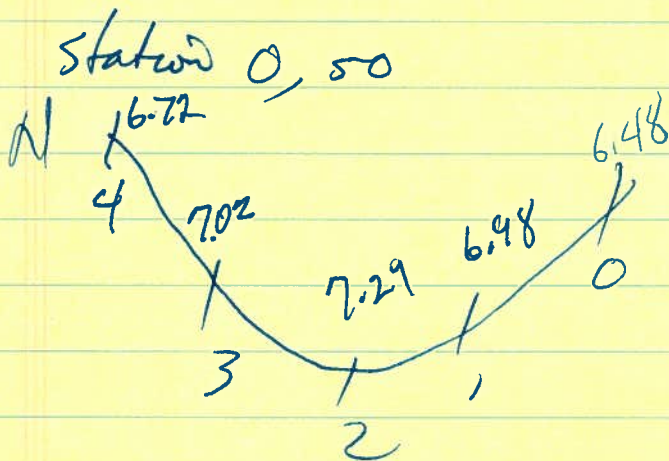
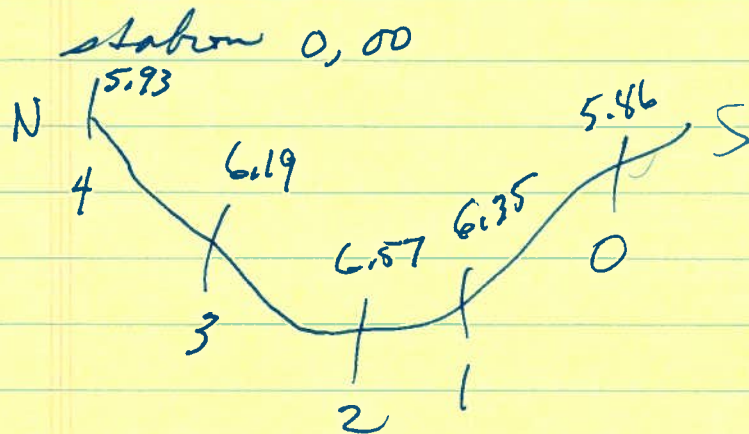
$$D_H = \frac{A}{T} = 0.24 \text{ ft}$$

$$Fr = \frac{V}{\sqrt{32.2 D_H}} = 0.49$$

Subcritical
Okay ✓

Lloyd P/4
 northern & western most P/O

8
 logged as photo 11



Q

MANNING EQUATION CHANNEL CAPACITY RESULTS

09-28-2000

File Number: A43-04073

Claimant: STAN LLOYD

Channel measured: #7

Date of measurement: 08/02/1994

Measurement location:

MIDDLE DIVERSION OF 3

Calculation prepared by: SCOTT KING

Comments about the measurement:

ANALYSIS PERFORMED FOR SURVEY DATA SUPPLIED

BY KELLY CHRISTENSEN OF SOUTHERN REGION.

ASSUMPTION: 0.10 FOOT FREEBOARD FROM LOW BANKS.

4072A

Sec 18 N/WNWSE

(Southern P/D in same 10ac tract)

The results of the calculation are:

The length of the channel measured is 100 feet.

The upstream and downstream rod readings are 4.93 and 5.70 feet.

The channel cross section is 1.53 ft-sq.

The wetted perimeter is 4.35 feet.

The hydraulic radius is 0.35 feet.

The slope is 0.0077

The roughness coefficient is 0.0600

The flow velocity is 1.086 ft/sec.

The rate of flow is 1.66 cfs.

CROSS SECTION NUMBER 1

For File Number A43-04073 for the #7

Number	Rod Reading	Water Depth	Distance
1	4.93	0.00	0.53
2	5.08	0.15	1.00
3	5.56	0.63	2.00
4	5.63	0.70	3.00
5	5.28	0.35	4.00
6	4.93	0.00	4.78

The area for this cross section is 1.75 square feet
and the wetted perimeter is 4.52 feet.

CROSS SECTION NUMBER 2

For File Number A43-04073 for the #7

Number	Rod Reading	Water Depth	Distance
1	5.62	0.00	0.56
2	5.78	0.16	1.00
3	6.28	0.66	2.00
4	6.23	0.61	3.00
5	5.93	0.31	4.00
6	5.62	0.00	4.76

The area for this cross section is 1.66 square feet
and the wetted perimeter is 4.45 feet.

CROSS SECTION NUMBER 3

For File Number A43-04073 for the #7

Number	Rod Reading	Water Depth	Distance
1	5.70	0.00	0.79
2	5.78	0.08	1.00
3	6.22	0.52	2.00
4	6.12	0.42	3.00
5	5.93	0.23	4.00
6	5.70	0.00	4.70

The area for this cross section is 1.18 square feet
and the wetted perimeter is 4.08 feet.

Stan Lloyd

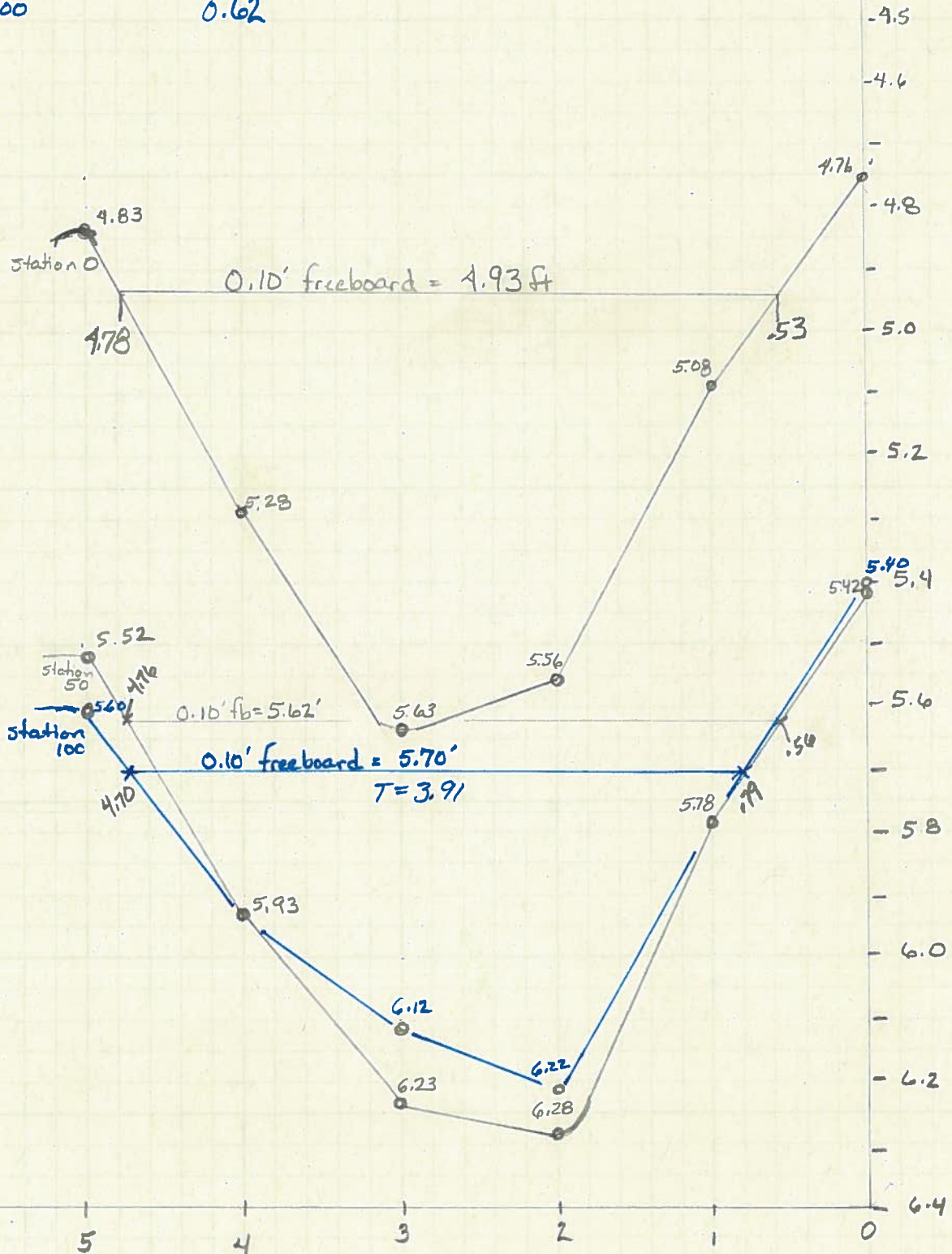
A43-04073 #7

by S. King 9/2000

Station
0
50
100

Max Depth
0.80
0.76
0.62

Slope
Chnl: $(6.22 - 5.63) \div 100 = .0059$
WS: $(5.70 - 4.93) \div 100 = 0.0077$



22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Stan Lloyd

A43-04073 #7

by. S. King 9/2000

Check Critical flow at Small Section #3

$$A = 1.18 \text{ ft}^2$$

$$Q = 1.66 \text{ cfs}$$

$$V = \frac{Q}{A} = 1.41 \text{ fps}$$

$$T = 3.91 \text{ ft}$$

$$D_H = \frac{A}{T} = .30$$

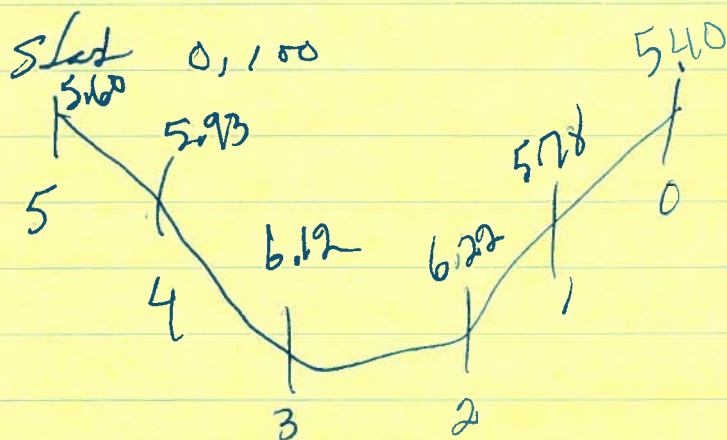
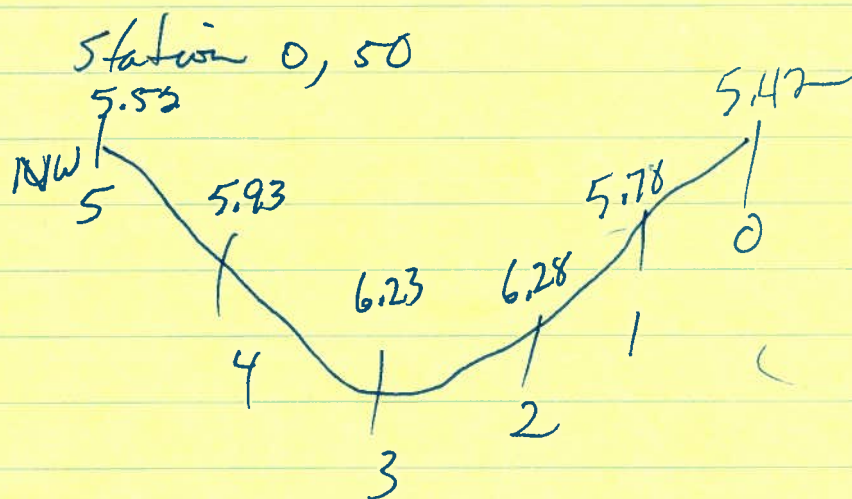
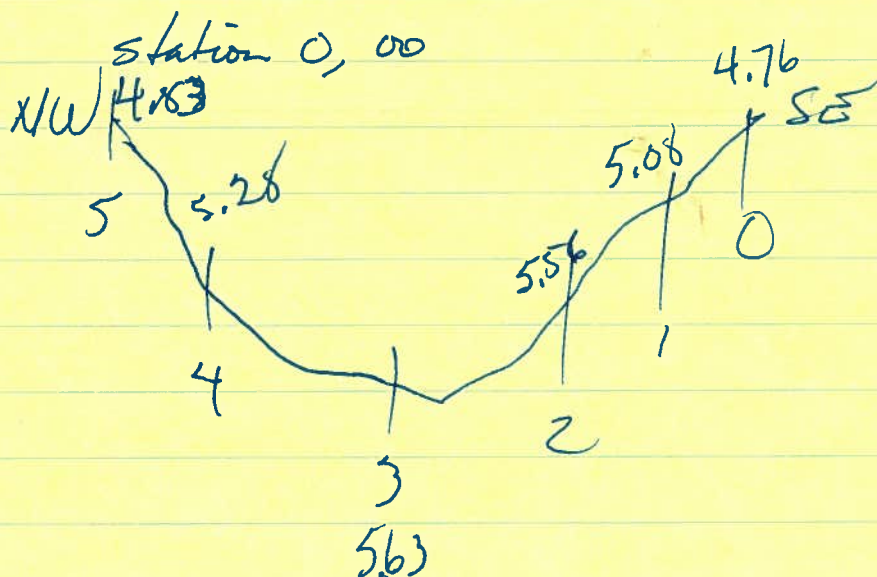
$$Fr = \frac{V}{\sqrt{32.2 D_H}} = 0.45 \Rightarrow \text{Subcritical flow} \checkmark$$

Stan Lloyd

middle div of 3

7

logged as
photo # 10



MANNING EQUATION CHANNEL CAPACITY RESULTS

09-27-2000

4072A

Sec 18 SESESE

File Number: A43-04073

Claimant: STAN LLOYD

Channel measured: #2

Date of measurement: 08/02/1994

Measurement location:

SOUTH OF FARMSTEAD

FIRST DIVERSION WEST OF SE CORNER OF POU

AT SECTION CORNER

Calculation prepared by: SCOTT KING

Comments about the measurement:

ANALYSIS PERFORMED FOR SURVEY DATA SUPPLIED

BY KELLY CHRISTENSEN OF SOUTHERN REGION

The results of the calculation are:

The length of the channel measured is 100 feet.

The upstream and downstream rod readings are 6.01 and 10.00 feet.

The channel cross section is 0.41 ft-sq.

The wetted perimeter is 3.12 feet.

The hydraulic radius is 0.13 feet.

The slope is 0.0399

The roughness coefficient is 0.0600

The flow velocity is 1.285 ft/sec.

The rate of flow is ~~0.53 cfs.~~

*Limit to critical flow
at constraining section (#1)
⇒ 0.32 cfs*

*Analysis performed with
assumption of 0.10 ft
freeboard from low banks.*

CROSS SECTION NUMBER 1

For File Number A43-04073 for the #2

Number	Rod Reading	Water Depth	Distance
1	6.01	0.00	0.50
2	6.11	0.10	1.00
3	6.13	0.12	1.50
4	6.15	0.14	2.00
5	6.01	0.00	2.70

The area for this cross section is 0.19 square feet
and the wetted perimeter is 2.22 feet.

CROSS SECTION NUMBER 2

For File Number A43-04073 for the #2

Number	Rod Reading	Water Depth	Distance
1	8.08	0.00	0.38
2	8.24	0.16	1.00
3	8.28	0.20	2.00
4	8.23	0.15	3.00
5	8.18	0.10	4.00
6	8.08	0.00	4.27

The area for this cross section is 0.54 square feet
and the wetted perimeter is 3.93 feet.

CROSS SECTION NUMBER 3

For File Number A43-04073 for the #2

Number	Rod Reading	Water Depth	Distance
1	10.00	0.00	0.53
2	10.09	0.09	1.00
3	10.23	0.23	2.00
4	10.24	0.24	3.00
5	10.00	0.00	3.69

The area for this cross section is 0.50 square feet
and the wetted perimeter is 3.22 feet.

A43-04073 21048

5.5

by S. King

#2

- 5.6

- 5.7

- 5.8

5.9

- 6.0

- 6.1

- 6.2

- 7.8

- 7.9

7.98

- 8.0

- 8.1

- 8.2

- 8.3

0

$$0.10' fb = 6.01'$$

$$T = 2.2 ft$$

assume
reading 5.95, not 5.59

$$0.10' fb = 8.08'$$

bank full

$$0.10' \text{ freeboard} = 10.0$$

$$0.20' \text{ freeboard} = 10.9$$

- 10.0

- 10.1

- 10.2

- 10.3

10.24

- 6.15

$4.09 \div 100 \Rightarrow$ channel bottom slope of 4.1%

Used water sfc slope of 4.0%

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Check Critical flow at smallest section, (#1)

$$\text{Area} = 0.19 \text{ ft}$$

$$\text{Top width} = 2.2 \text{ ft}$$

$$\text{Hydraulic Depth } D_H = \frac{A}{T} = \frac{0.19}{2.2} = 0.086 \text{ ft}$$

$$\text{Velocity } V = \frac{Q}{A} = \frac{0.53 \text{ cfs}}{0.19 \text{ ft}^2} = 2.79 \text{ fps}$$

$$\text{Froude No } Fr = \frac{V}{\sqrt{32.2 D_H}} = \frac{2.79}{\sqrt{32.2(0.086)}} = 1.67 \Rightarrow \text{Supercritical}$$

Check Critical at Lg Section (#2)

$$A = 0.54$$

$$T = 3.89 \text{ ft}$$

$$D_H = \frac{A}{T} = 0.14$$

$$V = \frac{Q}{A} = 0.98 \text{ fps}$$

$$Fr = \frac{V}{\sqrt{32.2 D_H}} = 0.46 \text{ subcritical}$$

$\Rightarrow$ limit to Critical at #1

$$Fr = 1.0 = \frac{V}{\sqrt{32.2 D_H}} \Rightarrow V = 1.66 \text{ fps}$$

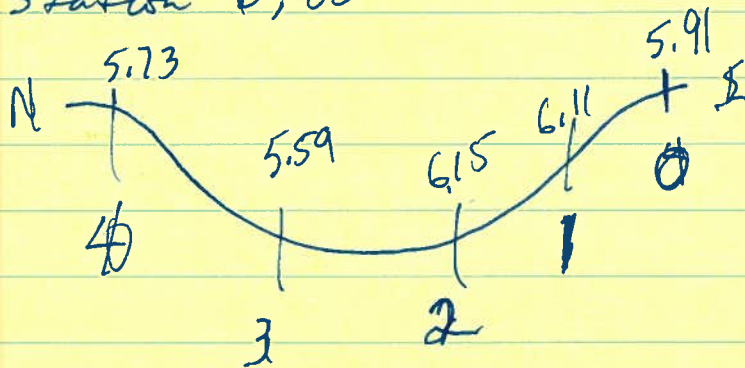
$$Q = VA = \underline{\underline{0.32 \text{ cfs}}}$$

4072H
A43- 4073 stan 2/9d

8-2-94

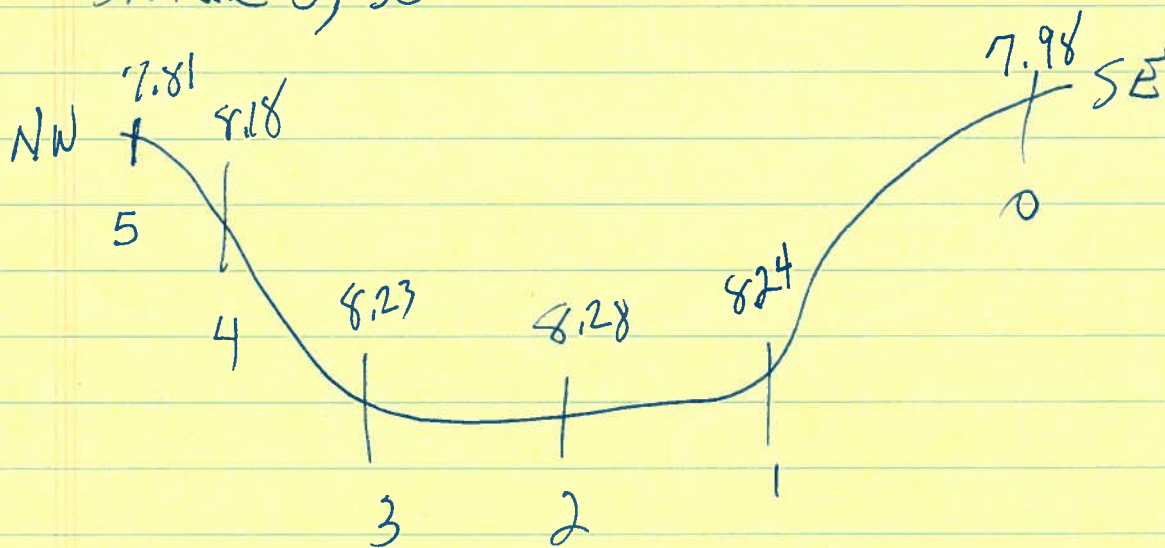
South of farmstead first div west of SE corner of P/U
(at section corner
Station 0, 00

#2

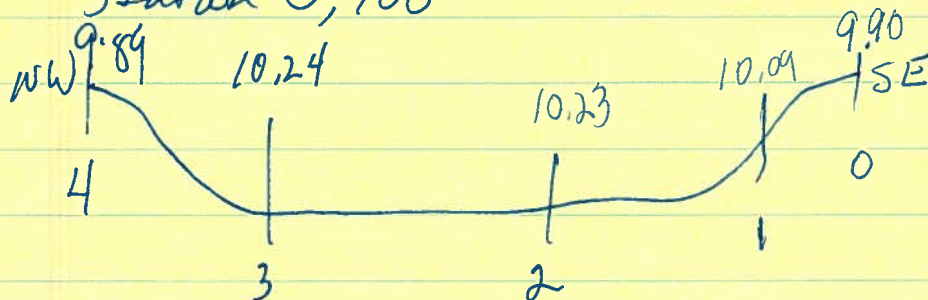


corresponding
Photo # 5
Claim A43-004072
04073
10504
02529

Station 0, 50



Station 0, 100



MANNING EQUATION CHANNEL CAPACITY RESULTS

09-28-2000

4072A 14S 25E Sec 18 NE ~~SE~~SW

File Number: A43-~~Q4073~~

Claimant: STAN LLOYD

Channel measured: #6

Date of measurement: 08/02/1994

Measurement location:

SOUTHERN MOST OF THREE IN NW END OF POU
(NOT ORIGINALLY IDENTIFIED ON CLAIMS)

Calculation prepared by: SCOTT KING

Comments about the measurement:

ANALYSIS PERFORMED FOR SURVEY DATA SUPPLIED
BY KELLY CHRISTENSEN OF SOUTHERN REGION.

The results of the calculation are:

The length of the channel measured is 100 feet.

The upstream and downstream rod readings are 5.05 and 5.66 feet.

The channel cross section is 0.87 ft-sq.

The wetted perimeter is 3.30 feet.

The hydraulic radius is 0.26 feet.

The slope is 0.0061

The roughness coefficient is 0.0600

The flow velocity is 0.798 ft/sec.

The rate of flow is 0.69 cfs.

CROSS SECTION NUMBER 1

For File Number A43-04073 for the #6

Number	Rod Reading	Water Depth	Distance
1	5.05	0.00	0.48
2	5.27	0.22	1.00
3	5.60	0.55	2.00
4	5.39	0.34	3.00
5	5.05	0.00	3.77

The area for this cross section is 1.02 square feet
and the wetted perimeter is 3.48 feet.

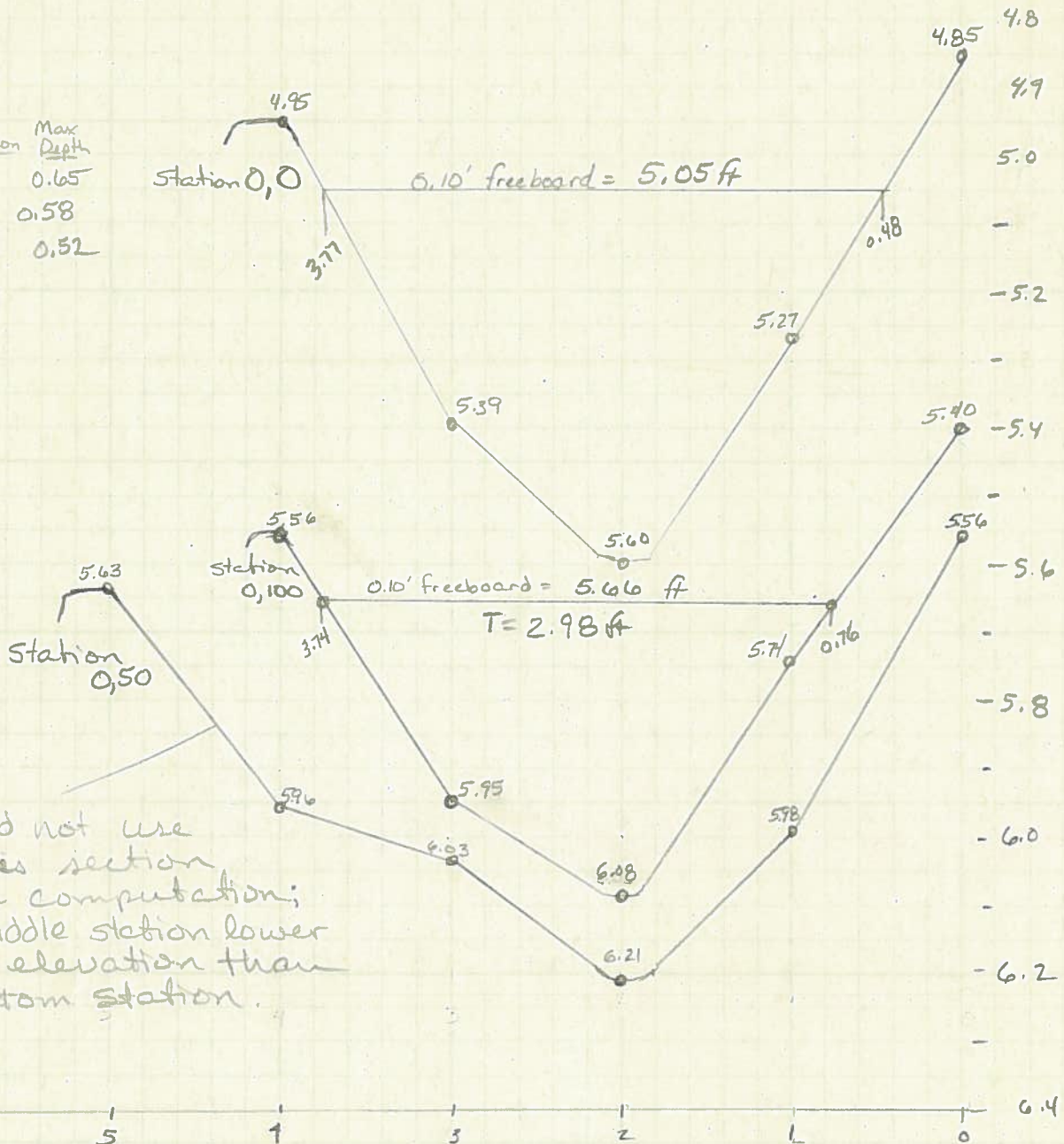
CROSS SECTION NUMBER 2

For File Number A43-04073 for the #6

Number	Rod Reading	Water Depth	Distance
1	5.66	0.00	0.76
2	5.74	0.08	1.00
3	6.08	0.42	2.00
4	5.95	0.29	3.00
5	5.66	0.00	3.74

The area for this cross section is 0.72 square feet
and the wetted perimeter is 3.11 feet.

Station	Max Depth
0	0.65
50	0.58
100	0.52



Check critical flow constraining section (#2)

$$A = 0.72 \text{ ft}^2$$

$$Q = 0.69 \text{ cfs}$$

$$V = \frac{Q}{A} = 0.96 \text{ fps}$$

$$T = 2.98 \text{ ft}$$

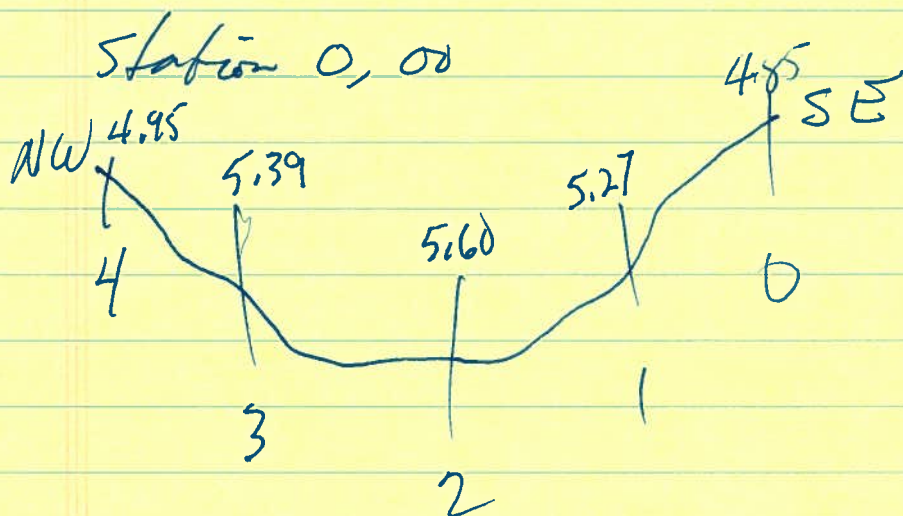
$$D_{nt} = \frac{A}{T} = 0.24$$

$$Fr = \frac{V}{\sqrt{32.2 D_{nt}}} = 0.34 \quad \text{Subcritical} \quad \text{OK} \checkmark$$

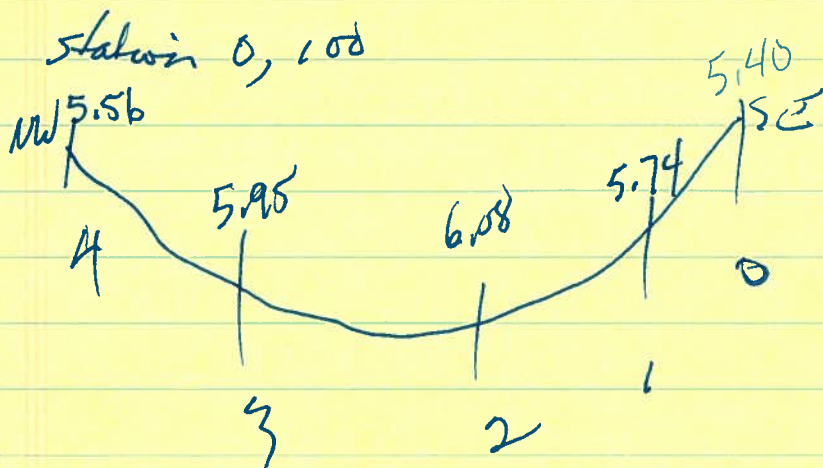
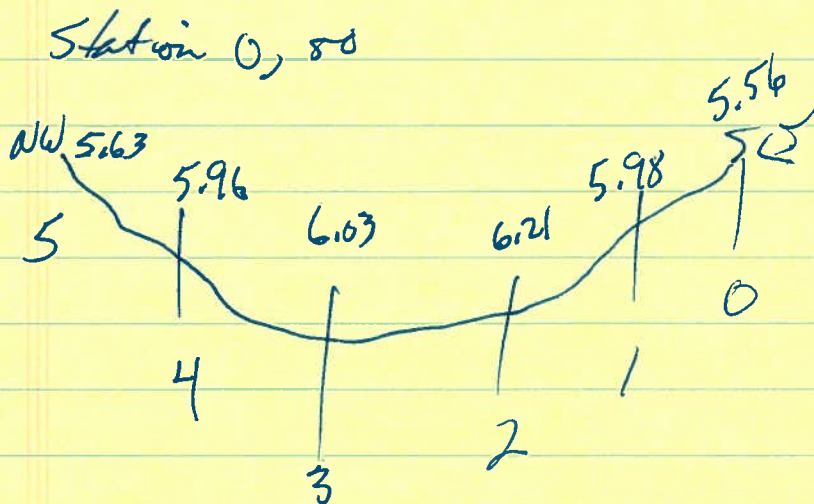
stan hloyl

southern most of three in NW end of P/C
not originally identified on claim.

#6



logged as
set 9



CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 7-28-94
PICTURE SET # 1

This photo set captures the southwest corner of the P/U, the well claimed under A43-02529, the spring claimed under A43-04072, and an unnamed stream diversion claimed under A43-04073. The unnamed stream diversion point is just beyond the van and the ditch runs northeast on contour. There is a small pond just below the spring which the well can be diverted into through the ditch going south. You are looking south on the right to east on the left.

ELBA-ALMO
HIGHWAY

SOUTHERN BOUNDARY

STREAM
DIVERSION

SPRING & SOUTHWEST
POND CORNER OF P/U



CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 7-28-94
PICTURE SET # 2

This photo is looking west toward the western most P/D claimed under A43-04073. This is west of the well shown in photo # 1 and west of the property line by approximately 100 yards. the P/D is approximately 250 yards west of the fenceline. This ditch catches spring runoff from the draw shown in the center of this photo.



PICTURE # 3

This photo set was taken east of the photo 2 location and is looking east northeast on the right to northeast on the right. This photo covers the ground along the northwest side of the P/U and includes the location of the three unnamed stream diversions indicated on the map.

P/Ds

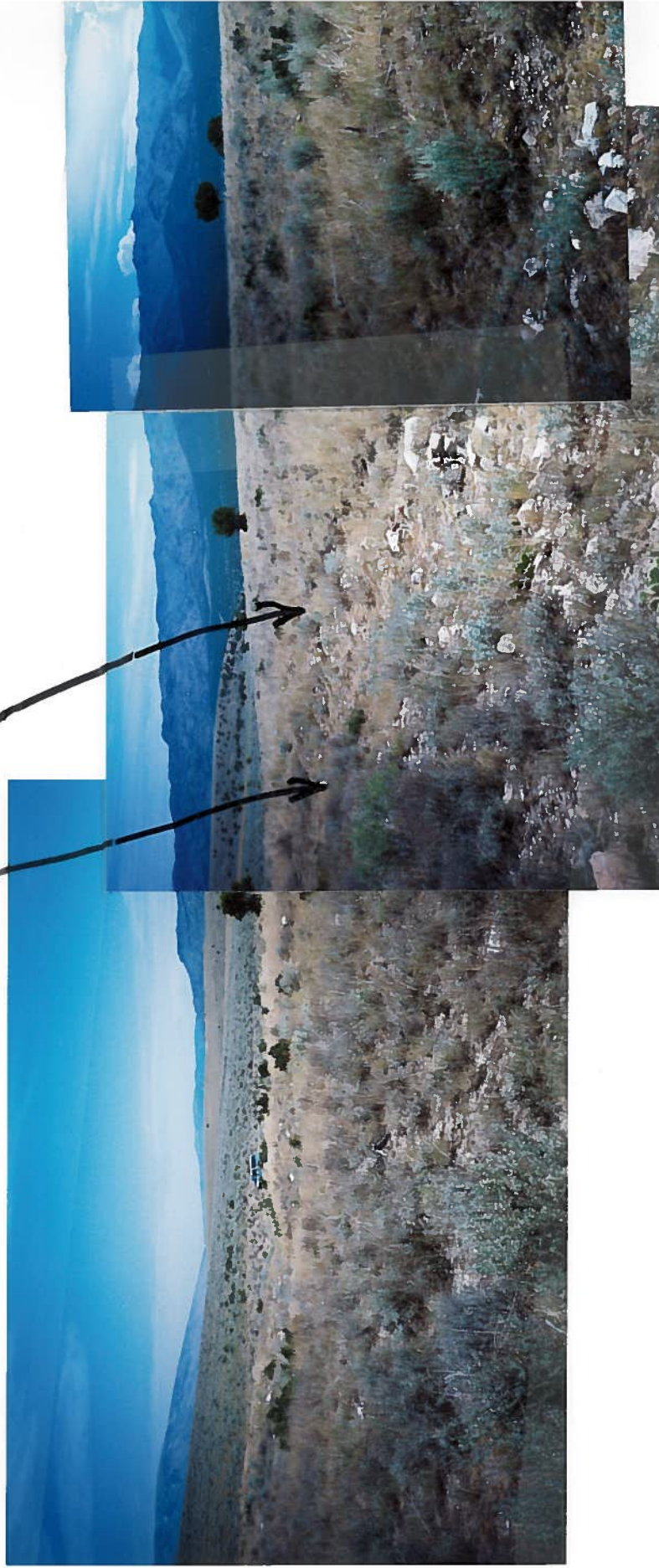


CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 7-28-94
PICTURE SET # 4

This picture set shows the southern diversion of the three NW diversions that catch spring run-off. You are looking northeast on the left to east on the right. The ditch starts out running northeast but then swings east on the countour.

DRAW

DITCH



CLAIM # A43-004072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 5

THIS DITCH SHOWN IS LOCATED IN THE SOUTHEAST PORTION OF THE P/U AND IS DIVERTED FROM A NATURAL DRAINAGE FROM A POINT JUST NORTH OF THE 18,17,19,20 SECTION CORNER. THE DITCH RUNS EAST FROM THIS POINT. WATER DIVERTED COVERS GROUND TO THE NORTH OF THE DITCH. THE PICTURED SECTION OF DITCH IS THE SECTION MEASURED AND IS REPRESENTATIVE OF THE ENTIRE REACH OF THE DITCH. THE DITCH SWINGS AROUND THE SCRAP PILE AND THEN RUNS TO THE RIGHT OR EAST. YOU ARE LOOKING NORTHEAST IN THIS PHOTO. THIS DITCH IS CLAIMED UNDER A43-04073.

DITCH
CHANNEL



CLAIM # A43-004072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 6

THIS DITCH COMES FROM A NATURAL DRAINAGE THAT RUNS TO THE NORTHEAST THROUGH THE SOUTHWEST CORNER OF THE P/U. THE PICTURED STRETCH IS LOCATED APPROXIMATELY 600 FT SOUTHEAST OF THE SPRING AND POND NEXT TO THE SOUTHWEST CORNER OF THE P/U. YOU ARE LOOKING NORTHEAST IN THIS PHOTO. THE IRRIGATED GROUND BEGINS BY THE PICKUP BEHIND ALLEN.



CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 7

THIS PHOTO SHOWS THE DISCHARGE FROM THE SPRING DEVELOPMENT LOCATED JUST SOUTH OF THE SOUTHWEST CORNER OF THE P/U. YOU ARE LOOKING NORTHWEST IN THIS PHOTO. NOTE THE WATERLINE IN THE PIPE DISCHARGE AS EVIDENCED BY THE RUSTLINE. THAT AREA WAS 6" ACROSS BY .15' DEEP. THE POND WAS FULL BUT NOT FLOWING AT EXAM TIME. NO MEASUREMENT MADE AT THIS TIME.

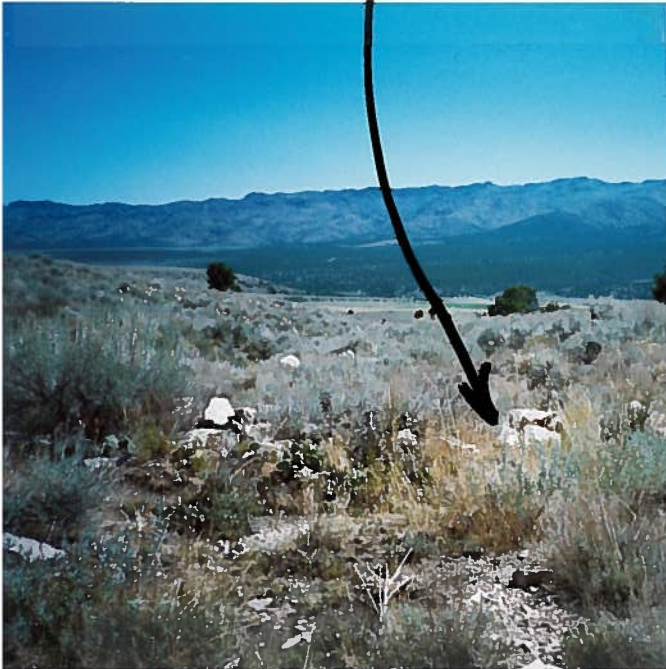


CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 8

THIS PHOTO SET IS LOOKING EAST AND CAPTURES THE P/D THE DITCH LEADING TO THE P/U, AND THE MEASUREMENT LOCATION FOR THE MANNINGS CALCULATIONS. THIS DIVERSION IS WEST OF THE P/U NOT FAR FROM THE SOUTHWEST CORNER.

ROCK DIVERSION STRUCTURE

DITCH AND MEASUREMENT LOCATION



CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 9

THIS PHOTO SET COVERS THE SOUTHERN MOST P/D OF THREE THAT ARE WITHIN THE FENCED P/U ALONG THE WEST SIDE OF THE P/U. THIS DIVERSION IS ON THE SAME DRAINAGE AS THE DIVERSION SHOWN IN PHOTO SET # 8 BUT IS DOWN STREAM TO THE NORTHEAST. YOU ARE LOOKING NORTHEAST IN THIS PHOTO SET.



CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 10

THIS PHOTO COVERS THE MIDDLE P/D OF THE THREE THAT ARE WITHIN THE FENCED P/U
ALONG THE WEST SIDE OF THE P/U. THIS DIVERSION IS ON THE FIRST DRAINAGE NORTH
OF THE ONE SHOWN IN PHOTO SET 9. YOU ARE LOOKING NORTHEAST IN THIS PHOTO.



CLAIM # A43-04072, 04073, 10504, & 02529
DATE PHOTOS TAKEN; 08-2-94
PICTURE SET # 11

THIS PHOTO COVERS THE NORTHERN P/D OF THE THREE THAT ARE WITHIN THE FENCED P/U ALONG THE WEST SIDE OF THE P/U. THE DIVERSION IS ON THE NORTH BRANCH OF A DRAW THAT JOINS THE DRAINAGE DESCRIBED IN PHOTO # 10. THIS DIVERSION IS FLUMED OVER THE PHOTO # 10 DRAINAGE INTO THE DITCH SHOWN. THIS SYSTEM IRRIGATES GROUND ALONG THE NORTH SIDE OF THE P/U. YOU ARE LOOKING EAST IN THIS PHOTO.

DITCH AND MEASUREMENT LOCATION

